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Get Started

Web Application Scanning API

The Web Application Scanning (WAS) API support scanning and reporting on web applications for security risks.

Modules supported

WAS

Authentication

Authentication to your Qualys account with valid Qualys credentials is required for making Qualys API requests to the Qualys API servers. Learn more about authentication to your Qualys account

Get API Notifications

We recommend you join our Community and subscribe to our API Notifications RSS Feeds for announcements and discussions.

https://community.qualys.com/community/developer/notifications-api

About Qualys

Qualys, Inc. (NASDAQ: QLYS) is a pioneer and leading provider of cloud-based security and compliance solutions. The Qualys Cloud Platform and its integrated Cloud Apps deliver businesses critical security intelligence continuously, enabling them to automate the full spectrum of auditing, compliance and protection for IT systems and web applications on premises, on endpoints and elastic clouds. For more information, please visit www.qualys.com

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Qualys user account

Authentication to your Qualys account with valid Qualys credentials is required for making Qualys API requests to the Qualys API servers.

The application must authenticate using Qualys account credentials (username and password) as part of the HTTP request. The credentials are transmitted using the “Basic Authentication Scheme” over HTTPS.

For information, see the “Basic Authentication Scheme” section of RFC #2617:

http://www.faqs.org/rfcs/rfc2617.html

The exact method of implementing authentication will vary according to which programming language is used.

The allowed methods, POST and/or GET, for each API request are documented with each API call in this user guide.

Sample request - basic authentication

```
curl -u "USERNAME:PASSWORD"
https://qualysapi.qualys.com/qps/rest/3.0/count/was/webapp
```
Making API Calls

Curl samples in our API doc

We use curl in our API documentation to show an example how to form REST API calls, and it is not meant to be an actual production example of implementation.

Making Requests with an XML Payload

While it is still possible to create simple API requests using the GET method, you can create API requests using the POST method with an XML payload to make an advanced request.

The XML payloads can be compared to a scripting language that allows user to make multiple actions within one single API request, like adding a parameter to an object and updating another parameter.

The XML structure of the payload is described in the XSD files.

XML Output Pagination / Truncation

The XML output of a search API request is paginated and the default page size is 100 object records. The page size can be customized to a value between 1 and 1,000. If the number of records is greater than the page size then the <ServiceResponse> element shows the response code SUCCESS with the element <hasMoreRecords>true</hasMoreRecords> as shown below.

Follow the process below to obtain the first two XML pages for an API request. Apply the same logic to get all the next (n+1) pages until all records are returned. This is indicated when <hasMoreRecords>false</hasMoreRecords>.

Sample 1 - Search web apps

Search for web applications that have a name containing the string “Merchant”. The service request in the POST data file “file.xml” defines this search criteria.
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/search/was/webapp" < file.xml
Note: “file.xml” contains the request POST data.

You’ll notice the operator field value is set to 123, which is the value returned in <lastId> of the previous page output. The GREATER operator is a logical “greater than” (it does not mean greater than or equal to).

**Request POST data**

```xml
<ServiceRequest>
  <preferences>
    <limitResults>5</limitResults>
  </preferences>
  <filters>
    <Criteria field="name" operator="CONTAINS">Merchant</Criteria>
  </filters>
</ServiceRequest>
```

The number of records is greater than the default pagination value so the <ServiceResponse> element identifies the last ID of the object in the current page output.

**XML response**

```xml
<ServiceResponse ...>
  <responseCode>SUCCESS</responseCode>
  <COUNT>5</COUNT>
  <hasMoreRecords>true</hasMoreRecords>
  <lastId>123</lastId>
  <data>
    <!--here you will find 5 web application records-->
  </data>
</ServiceResponse>
```

Sample 2

To get the next page of results, you need to edit your service request in “file.xml” that will be passed to API request as a POST payload. According to
the `<lastId>` element returned in the first page, you want the next page of results to start with the object ID 124 or greater.

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/was/webapp" <
file.xml
```

Note: “file.xml” contains the request POST data.

You’ll notice the operator field value is set to 123, which is the value returned in `<lastId>` of the previous page output. The GREATER operator is a logical “greater than” (it does not mean greater than or equal to).

**Request POST data**

```
<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">Merchant</Criteria>
    <Criteria field="id" operator="GREATER">123</Criteria>
  </filters>
</ServiceRequest>
```

**Setting custom page size**

The service request needs to contain the `<preferences>` section with the `<limitResults>` parameter. For the `<limitResults>` parameter you can enter a value from 1 to 1,000. You can change which objects are returned and the number of objects by specifying a preferences tag in the POST body of your request.

**Request POST data**

```
<ServiceRequest>
  <filters>
    ... </Criteria>
  </filters>
  <preferences>
    <startFromOffset>100</startFromOffset>
    <limitResults>200</limitResults>
  </preferences>
</ServiceRequest>
```
Preferences tag fields:

startFromOffset - The first item to return by index. The default is 1.

startFromId - The first item to return by primary key. No default value.

limitResults - The total number of items to return. The default is 100.
URL to Qualys API server

The Qualys API URL you should use for API requests depends on the Qualys platform where your account is located.

Click here to identify your Qualys platform and get the API URL

This documentation uses the API server URL for Qualys US Platform 1 (https://qualysapi.qualys.com) in sample API requests. If you're on another platform, please replace this URL with the appropriate server URL for your account.

Looking for your API server URL for your account? You can find this easily. Just log in to your Qualys account and go to Help > About. You'll see this information under Security Operations Center (SOC).
Tracking API usage by user

You can track API usage per user without the need to provide user credentials such as the username and password. Contact Qualys Support to get the X-Powered-By HTTP header enabled.

Once enabled, the X-Powered-By HTTP header is returned for each API request made by a user. The X-Powered-By value includes a unique ID generated for each subscription and a unique ID generated for each user.

Optional X-Powered-By header

API usage can be tracked using the X-Powered-By HTTP header which includes a unique ID generated for each subscription and a unique ID generated for each user. Once enabled, the X-Powered-By HTTP header is returned for each API request made by a user. The X-Powered-By HTTP header will be returned for both valid and invalid requests. However, it will not be returned if an invalid URL is hit or when user authentication fails.

The X-Powered-By header is returned in the following format:

X-Powered-By: Qualys:<POD_ID>:<SUB_UUID>:<USER_UUID>

where,

- POD_ID is the shared POD or a PCP. Shared POD is USPOD1, USPOD2, etc.
- SUB_UUID is the unique ID generated for the subscription
- USER_UUID is the unique ID generated for the user. You can use the USER_UUID to track API usage per user.

Sample X-Powered-By header

X-Powered-By: Qualys:QAPOD4JSJC:f972e2cc-69d6-7ebd-80e6-7b9a931475d8:06198167-43f3-7591-802a-1c400a0e81b1
How to Download Vulnerability Details

/api/2.0/fo/knowledge_base/vuln/?action=list

[GET] [POST]

When you download web application scan results using the WAS API, you’ll want to view vulnerability descriptions from the Qualys KnowledgeBase in order to understand the vulnerabilities detected and see our recommended solutions. You can do this programmatically using the KnowledgeBase API (api/2.0/fo/knowledge_base/vuln/?action=list). This API function is part of the Qualys API and it’s described in the Qualys API (VM, SCA, PC) User Guide (click here to download the latest version)

Input Parameters

When filter parameters are specified, these parameters are ANDed

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>action=list</td>
<td>(Required) A flag used to request the download of vulnerability data from the KnowledgeBase.</td>
</tr>
<tr>
<td>echo_request={0|1}</td>
<td>(Optional) Show (echo) the request’s input parameters (names and values) in the XML output. When unspecified, parameters are not included in the XML output. Specify 1 to view parameters in the output.</td>
</tr>
<tr>
<td>details={Basic|All|None}</td>
<td>(Optional) Show the requested amount of information for each vulnerability in the XML output. A valid value is: Basic (default), All, or None. Basic includes basic elements plus CVSS Base and Temporal scores. All includes all vulnerability details, including the Basic details.</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>ids={value}</td>
<td>(Optional) Used to filter the XML output to include only vulnerabilities that have QID numbers matching the QID numbers you specify.</td>
</tr>
<tr>
<td>id_min={value}</td>
<td>(Optional) Used to filter the XML output to show only vulnerabilities that have a QID number greater than or equal to a QID number you specify.</td>
</tr>
<tr>
<td>id_max={value}</td>
<td>(Optional) Used to filter the XML output to show only vulnerabilities that have a QID number less than or equal to a QID number you specify.</td>
</tr>
<tr>
<td>is_patchable={0</td>
<td>1}</td>
</tr>
<tr>
<td>last_modified_after={date}</td>
<td>(Optional) Used to filter the XML output to show only vulnerabilities last modified after a certain date and time. When specified vulnerabilities last modified by a user or by the service will be shown. The date/time is specified in YYYY-MM-DD[THH:MM:SSZ] format (UTC/GMT).</td>
</tr>
<tr>
<td>last_modified_before={date}</td>
<td>(Optional) Used to filter the XML output to show only vulnerabilities last modified before a certain date and time. When specified vulnerabilities last modified by a user or by the service will be shown. The date/time is specified in YYYY-MM-</td>
</tr>
</tbody>
</table>
last_modified_by_  (Optional) Used to filter the XML output to show only vulnerabilities last modified by a user after a certain date and time. The date/time is specified in YYYY-MM-DD[THH:MM:SSZ] format (UTC/GMT).

user_after={date}

last_modified_by_  (Optional) Used to filter the XML output to show only vulnerabilities last modified by a user after a certain date and time. The date/time is specified in YYYY-MM-DD[THH:MM:SSZ] format (UTC/GMT).

user_before={date}

last_modified_by_  (Optional) Used to filter the XML output to show only vulnerabilities last modified by the service after a certain date and time. The date/time is specified in YYYY-MM-DD[THH:MM:SSZ] format (UTC/GMT).

service_after={date}

last_modified_by_  (Optional) Used to filter the XML output to show only vulnerabilities last modified by the service before a certain date and time. The date/time is specified in YYYY-MM-DD[THH:MM:SSZ] format (UTC/GMT).

service_before={date}

published_after={date}  (Optional) Used to filter the XML output to show only vulnerabilities published after a certain date and time. The date/time is specified in YYYY-MM-DD[THH:MM:SSZ] format (UTC/GMT).

published_before={date}

discovery_method={value}  (Optional) Used to filter the XML output to show only vulnerabilities assigned a certain discovery method. A valid value is: Remote, Authenticated, RemoteOnly,
AuthenticatedOnly, or RemoteAndAuthenticated.

When “Authenticated” is specified, the service shows vulnerabilities that have at least one associated authentication type. Vulnerabilities that have at least one authentication type can be detected in two ways: 1) remotely without using authentication, and 2) using authentication.

discovery_auth_types={value} (Optional) Used to filter the XML output to show only vulnerabilities having one or more authentication types. A valid value is: Windows, Oracle, Unix or SNMP. Multiple values are entered as a comma-separated list.

show_pci_reasons={0|1} (Optional) Used to filter the XML output to show reasons for passing or failing PCI compliance (when the CVSS Scoring feature is turned on in the user’s subscription). Specify 1 to view the reasons in the XML output. When unspecified, the reasons are not included in the XML output.

Sample - All vulnerabilities in KnolwedgeBase, all details

API request

curl -u "user:password" -H "X-Requested-With: Curl" -X "POST" -d "action=list" "https://qualysapi.qualys.com/api/2.0/fo/knowledge_base/vuln/" > output.txt

Sample - Patchable vulnerabilities, all details

API request
curl -u "user:password" -H "X-Requested-With: Curl" -X "POST"
-d "action=list&ids=1-200&is_patchable=1&details=All"
 "https://qualysapi.qualys.com/api/2.0/fo/knowledge_base/vuln/" > output.txt

Sample - Vulnerabilities modified after certain date

API request

curl -u "user:password" -H "X-Requested-With: Curl" -X "POST"
-d "action=list&last_modified_by_service_after=2018-07-20
&discovery_method=RemoteAndAuthenticated"
 "https://qualysapi.qualys.com/api/2.0/fo/knowledge_base/vuln/" > output.txt

DTD

<platform API server>/api/2.0/fo/knowledge_base/vuln/knowledge_base_vuln_list_output.dtd
Know your portal version

/qps/rest/portal/version/

[GET] [POST]

Using the Version API you can find out the installed version of Portal and its sub-modules that are available in your subscription.

Sample XML

API request

curl -u "USERNAME:PASSWORD" -X "GET" -H "Accept: application/xml"
https://qualysapi.qualys.com/qps/rest/portal/version

Response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/version.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Portal-Version>
      <WAS-VERSION>6.0.0.0</WAS-VERSION>
      <FIM-VERSION>1.5.1</FIM-VERSION>
      <VM-VERSION>1.0.3</VM-VERSION>
      <CERTVIEW-VERSION>1.1.0.0</CERTVIEW-VERSION>
      <CM-VERSION>1.20.1</CM-VERSION>
      <MDS-VERSION>2.11.7.0</MDS-VERSION>
      <CA-VERSION>2.9.1.0</CA-VERSION>
      <IOC-VERSION>1.1.0</IOC-VERSION>
      <AV2-VERSION>0.1.0</AV2-VERSION>
      <QUESTIONNAIRE-VERSION>2.14.0.4</QUESTIONNAIRE-VERSION>
      <WAF-VERSION>2.7.0.0</WAF-VERSION>
    </Portal-Version>
  </data>
</ServiceResponse>
Sample JSON

**API request**

curl -u "USERNAME:PASSWORD" -X "GET" -H "Accept: application/json"
https://qualysapi.qualys.com/qps/rest/portal/version

**Response**

```
{
   "ServiceResponse": {
      "data": [
      {
         "Portal-Version": {
            "WAS-VERSION": "6.0.0.0",
            "VM-VERSION": "1.0.3",
            "CM-VERSION": "1.20.1",
            "MDS-VERSION": "2.11.7.0",
            "CA-VERSION": "2.9.1.0",
            "QUESTIONNAIRE-VERSION": "2.14.0.4",
            "WAF-VERSION": "2.7.0.0"
         },
         ...
      }
   ],
   "responseCode": "SUCCESS",
   "count": 1
}
```
JSON Support

WAS API supports JSON requests and responses starting with WAS version 4.5. Samples are shown below.

Sample 1 - Create an option profile

**API request**

```
```

POST data:
```
{
   "ServiceRequest": {
   "data": {
      "OptionProfile": {
         "name": "OP creation - with json request and response",
         "timeoutErrorThreshold": "10",
         "unexpectedErrorThreshold": "20"
      }
   }
}
```

**JSON output**
```
{
   "ServiceResponse": {
   "data": [
   {
      "OptionProfile": {
         "id": 464134,
         "formSubmission": "BOTH",
         "owner": {
            "lastName": "Smith",
            "username": "username",
            "firstName": "Steve",
            "id": 4354
         }
      }
   }
}
```


{
  "count": 1,
  "responseCode": "SUCCESS"
}


Sample 2 - Launch a scan

**API request**

```
```

POST data:

```
{
   "ServiceRequest": {
      "data": {
         "WasScan": {
            "name": "WebApp Default Auth",
            "type": "VULNERABILITY",
            "target": {
               "webApp": { "id": "2640672" },
               "webAppAuthRecord": { "isDefault": "true" }
            },
            "cancelAfterNHours": "1",
            "profile": { "id": "450936" }
         }
      }
   }
}
```

**JSON output**

```
{
   "ServiceResponse": {
      "responseCode": "SUCCESS",
      "data": [
         { "WasScan": { "id": 1498381 } ]
   },
   "count": 1
}
```

Sample 3 - Get a WAS scan

**API request**

POST data:
{
   "ServiceRequest": {
      "data": {
         "WasScan": {
            "name": "WebApp Default Auth",
            "type": "VULNERABILITY",
            "target": {
               "webApp": { "id": "2640672" },
               "webAppAuthRecord": { "isDefault": "true" }
            },
            "cancelAfterNHours": "1",
            "profile": { "id": "450936" }
         }
      }
   }
}

JSON output
{
   "ServiceResponse": {
      "responseCode": "SUCCESS",
      "data": [
         {
            "WasScan": {
               "id": 1498381
            }
         }
      ],
      "count": 1
   }
}
Web Applications

Count web applications

/qps/rest/3.0/count/was/webapp

[GET] [POST]

Returns the total number of web applications in the user’s account. Input elements are optional and are used to filter the number of web applications included in the count.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The count includes web applications in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. Click here for descriptions of <WebApp> elements.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) Web application ID.</td>
</tr>
<tr>
<td>name</td>
<td>(text) Web application name.</td>
</tr>
<tr>
<td>url</td>
<td>(text) The URL of web application.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to web application.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) Tag ID assigned to web application.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the web application was created</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API
Web Applications

in WAS, in UTC date/time format.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>updatedDate</td>
<td>(date) The date when the web application was last updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>isScheduled</td>
<td>(boolean) A flag indicating whether a scan is scheduled for web application.</td>
</tr>
<tr>
<td>isScanned</td>
<td>(boolean) A flag indicating whether the web application has been scanned.</td>
</tr>
<tr>
<td>lastScan.status</td>
<td>(keyword) Scan status reported by last web application scan: SUBMITTED, RUNNING, FINISHED, TIME_LIMIT_EXCEEDED, SCAN_NOT_LAUNCHED, SCANNER_NOT_AVAILABLE, ERROR or CANCELED</td>
</tr>
<tr>
<td>lastScan.date</td>
<td>(date) Date when web application was last scanned, in UTC date/time format.</td>
</tr>
</tbody>
</table>

Sample - Get count of web apps, all in user’s account

**API request**

curl -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/count/was/webapp"

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>227</count>
</ServiceResponse>
```

Sample - Get count of web apps in ID range

**API request**
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-"https://qualysapi.qualys.com/qps/rest/3.0/count/was/webapp" < file.xml
Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="IN">323126,323816</Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>0</count>
</ServiceResponse>
```

**XSD**

<platform_API_server>/qps/xsd/3.0/was/webapp.xsd
Search Web Applications

/qps/rest/3.0/search/was/webapp

[POST]

Returns a list of web applications which are in the user's scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes web applications in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. Click here for descriptions of <WebApp> elements.

The special field=attributes attribute for the Criteria element is used to search custom attributes (see sample below).

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) Web application ID.</td>
</tr>
<tr>
<td>name</td>
<td>(text) Web application name.</td>
</tr>
<tr>
<td>url</td>
<td>(text) The URL of web application.</td>
</tr>
<tr>
<td>tags</td>
<td>(element) Tags assigned to web application. Click here for description of this &lt;WebApp&gt; element</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to web application.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) Tag ID assigned to web application.</td>
</tr>
<tr>
<td>Field</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the web application was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date when the web application was last updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>isScheduled</td>
<td>(boolean) A flag indicating whether a scan is scheduled for web application.</td>
</tr>
<tr>
<td>isScanned</td>
<td>(boolean) A flag indicating whether the web application has been scanned.</td>
</tr>
<tr>
<td>lastScan.status</td>
<td>(keyword) Scan status reported by last web application scan: SUBMITTED, RUNNING, FINISHED, TIME_LIMIT_EXCEEDED, SCAN_NOT_LAUNCHED, SCANNER_NOT_AVAILABLE, ERROR or CANCELED</td>
</tr>
<tr>
<td>lastScan.date</td>
<td>(date) Date when web application was last scanned, in UTC date/time format.</td>
</tr>
<tr>
<td>verbose</td>
<td>(boolean) A flag to indicate whether the list of tags associated with the web application should be listed or not.</td>
</tr>
</tbody>
</table>

**Example:**
```xml
<preferences>
  <verbose>true</verbose>
</preferences>
```

**Sample - List all web apps in user’s account**

**API request**
```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" "https://qualysapi.qualys.com/qps/rest/3.0/search/was/webapp" -X "POST"
```

**XML response**
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>2</count>
  <hasMoreRecords>false</hasMoreRecords>
  <lastId>323103</lastId>
  <data>
    <WebApp>
      <id>323102</id>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[https://example.com]]></url>
      <owner>
        <id>123068</id>
      </owner>
      <tags>
        <count>3</count>
      </tags>
      <createdDate>2017-11-22T13:48:03Z</createdDate>
      <updatedDate>2018-09-19T13:41:07Z</updatedDate>
    </WebApp>
    <WebApp>
      <id>323103</id>
      <name><![CDATA[Demo Web App]]></name>
      <url><![CDATA[http://10.10.26.200:80/phpBB/1.4.4_basic]]></url>
      <owner>
        <id>123071</id>
      </owner>
      <tags>
        <count>0</count>
      </tags>
      <createdDate>2018-06-22T13:45:46Z</createdDate>
      <updatedDate>2018-09-16T14:33:38Z</updatedDate>
    </WebApp>
  </data>
</ServiceResponse>

Sample - List certain web apps

API request

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
```
"https://qualysapi.qualys.com/qps/rest/3.0/search/was/webapp" < file.xml
Note: “file.xml” contains the request POST data.

### Request POST data

```
<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">Merchant</Criteria>
    <Criteria field="id" operator="GREATER">323000</Criteria>
  </filters>
</ServiceRequest>
```

### XML response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <WebApp>
      <id>323476</id>
      <name><![CDATA[Merchant site 1]]></name>
      <url><![CDATA[http://10.10.25.116:80/merchant/2.2/themerchant]]></url>
      <owner>
        <id>123056</id>
      </owner>
      <tags>
        <count>0</count>
      </tags>
      <createdDate>2018-02-21T15:24:49Z</createdDate>
      <updatedDate>2018-07-03T16:53:37Z</updatedDate>
    </WebApp>
  </data>
</ServiceResponse>
```

### Sample - Search Web Application and view associated tags

**API request**
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/search/was/webapp" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

```xml
<ServiceRequest>
  <preferences>
    <verbose>true</verbose>
  </preferences>
  <filters>
    <Criteria field="name" operator="CONTAINS">My Web Application</Criteria>
  </filters>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <WebApp>
      <id>6620298</id>
      <name>
        <![CDATA[My Web Application]]>
      </name>
      <url>
        <![CDATA[http://www.example.com]]>
      </url>
      <owner>
        <id>1056860</id>
      </owner>
      <tags>
        <count>1</count>
        <list>
          <Tag>
            <id>9029017</id>
          </Tag>
        </list>
      </tags>
    </WebApp>
  </data>
</ServiceResponse>
```
Sample - Search custom attributes

Search custom attributes using the field attribute for the Criteria element.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/search/was/webapp" < file.xml

Note: “file.xml” contains the request POST data.

Find web applications that have a custom attribute name “Function” and this attribute has a value that contains “web” (case insensitive search).

**Request POST data**

```xml
<ServiceRequest>
  <filters>
    <Criteria field="attributes" name="Function" operator="CONTAINS">web</Criteria>
  </filters>
</ServiceRequest>
```

Find web applications that have a custom attribute name “Function” and this attribute has a value that is equal to “web”.

**Request POST data (EQUALS)**

```xml
<ServiceRequest>
  <filters>
  </filters>
</ServiceRequest>
```
Find web applications that have a custom attribute name “Function” and this attribute has a value not equal to “web”.

**Request POST data (NOT EQUALS)**

```xml
<ServiceRequest>
  <filters>
    <Criteria field="attributes" name="Function" operator="NOT EQUALS">web</Criteria>
  </filters>
</ServiceRequest>
```

**XSD**

```
<platform_API_server>/qps/xsd/3.0/was/webapp.xsd
```
Get Web Application Details

/qps/rest/3.0/get/was/webapp/<id>

[GET]

Returns details for a web application which is in the user’s scope. Want to find a web application ID to use as input? See Search Web applications.

The web application screenshot, when available, is included in the output in the “screenshot” element as a base64 encoded binary string. This string needs to be converted before a user can decode and view the image file (.png). In order to encode screenshots we use urlSafe Base 64 encoding solution like other elements in our API. Therefore these characters will be replaced in the base64 contents:

/ will be replaced with _

+ will be replaced with -

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes web applications in the user’s scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies a web application.

Click here for available operators

Samples

View details for the web application

Get details - DNS override settings

Get details - logout regular expression list

View default authentication record details
Get details - Selenium crawl script

Get details of a progressive scan

Sample - View details for the web application

Let us view details for the web application with the ID 2130421.

API request

curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/webapp/2130421"

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>2130421</id>
      <name><![CDATA[CUSTOM PARAM TEST]]></name>
      <url><![CDATA[http://funkytown.abcd01.abcd.com/Forms/FormFields/temp/]]></url>
      <os>Linux 2.4-2.6 / Embedded Device / F5 Networks Big-IP / Linux 2.6</os>
      <owner>
        <id>4354</id>
        <username>user_alex</username>
        <firstName><![CDATA[Alex]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
      </owner>
      <scope>ALL</scope>
      <attributes>
        <count>0</count>
      </attributes>
    </WebApp>
  </data>
</ServiceResponse>
<id>139359</id>
<name><![CDATA[10 Links edit]]></name>
</defaultProfile>
<defaultScanner>
  <type>EXTERNAL</type>
</defaultScanner>
<scannerLocked>false</scannerLocked>
<urlBlacklist>
  <count>0</count>
</urlBlacklist>
<urlWhitelist>
  <count>0</count>
</urlWhitelist>
<brandBlacklist>
  <count>0</count>
</brandBlacklist>
<postDataBlacklist>
  <count>0</count>
</postDataBlacklist>
<authRecords>
  <count>1</count>
  <list>
    <WebAppAuthRecord>
      <id>127357</id>
      <name><![CDATA[AR - funkytown]]></name>
    </WebAppAuthRecord>
  </list>
</authRecords>
<useRobots>IGNORE</useRobots>
<useSitemap>false</useSitemap>
<malwareMonitoring>true</malwareMonitoring>
<malwareNotification>true</malwareNotification>
<malwareScheduling>
  <startDate>2017-03-03T09:50:00Z</startDate>
  <timeZone>
    <code>Asia/Kolkata</code>
    <offset>+05:30</offset>
  </timeZone>
  <occurrenceType>MONTHLY</occurrenceType>
  <occurrence>
    <monthlyOccurrence>
      <monthlyType>
        <occurDayOrderInMonth>
          <dayOrder>FIRST</dayOrder>
          <dayOfMonth>THURSDAY</dayOfMonth>
          <everyNMonths>1</everyNMonths>
        </occurDayOrderInMonth>
      </monthlyType>
    </monthlyOccurrence>
  </occurrence>
</malwareScheduling>
<occurrenceCount>4</occurrenceCount>
</monthlyOccurrence>
</occurrence>
</malwareScheduling>
<tags>
  <count>4</count>
  <list>
    <Tag>
      <id>1730872</id>
      <name><![CDATA[new tag]]></name>
    </Tag>
    <Tag>
      <id>1418973</id>
      <name><![CDATA[Cert Tag]]></name>
    </Tag>
    <Tag>
      <id>1693034</id>
      <name><![CDATA[My Tag name]]></name>
    </Tag>
    <Tag>
      <id>1693032</id>
      <name><![CDATA[Groovy tag -1]]></name>
    </Tag>
  </list>
</tags>
<comments>
  <count>0</count>
</comments>
</isScheduled>false</isScheduled>
<lastScan>
  <id>827468</id>
  <name><![CDATA[Web Application Vulnerability Scan - CUSTOM PARAM TEST]]></name>
</lastScan>
<createdBy>
  <id>4354</id>
  <username>user_alex</username>
  <firstName><![CDATA[Alex]]></firstName>
  <lastName><![CDATA[Smith]]></lastName>
</createdBy>
<createdDate>2017-07-24T09:08:49Z</createdDate>
<updatedBy>
  <id>4354</id>
  <username>user_alex</username>
  <firstName><![CDATA[Alex]]></firstName>
</updatedBy>
Sample - Get details - DNS override settings

Let us get details of the web application with ID 2508873 that includes DNS override records. The dnsOverrides element lists the records.

API request

curl -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/webapp/2508873"

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>2508873</id>
      <name> <![CDATA[My Web App]]> </name>
      <url> <![CDATA[http://funkytown.vuln.qa.com:80/cassium/xss/]]> </url>
      <owner>
        <id>4354</id>
        <username>user_adam</username>
      </owner>
    </WebApp>
  </data>
</ServiceResponse>
<firstName>Adam</firstName>
<lastName>Smith</lastName>
</owner>
<scope>ALL</scope>
<attributes>
  <count>0</count>
</attributes>
<defaultScanner>
  <type>INTERNAL</type>
  <friendlyName>
    db4_abcd_ab2
  </friendlyName>
</defaultScanner>
<scannerLocked>false</scannerLocked>
<progressiveScanning>true</progressiveScanning>
<urlBlacklist>
  <count>0</count>
</urlBlacklist>
<urlWhitelist>
  <count>0</count>
</urlWhitelist>
postDataBlacklist>
  <count>0</count>
</postDataBlacklist>
<authRecords>
  <count>0</count>
</authRecords>
<dnsOverrides>
  <count>2</count>
  <list>
    <DnsOverride>
      <id>1620</id>
      <name>
        DNS Override Settings 1
      </name>
    </DnsOverride>
    <DnsOverride>
      <id>1020</id>
      <name>
        DNS Override Settings 2
      </name>
    </DnsOverride>
  </list>
</dnsOverrides>
Sample - Get details - logout regular expression list

Let us get details for the webapp with logout regular expression list.

API request

curl -u "USERNAME:PASSWORD" -X GET -H 'Content-type: text/xml' "https://qualysapi.qualys.com/qps/rest/3.0/get/was/webapp/842222"

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>842222</id>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <owner>
        <id>337014</id>
        <username>user_john</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Doe]]></lastName>
      </owner>
      <scope>ALL</scope>
      <attributes>
        <count>0</count>
      </attributes>
      <defaultScanner>
        <type>EXTERNAL</type>
      </defaultScanner>
      <urlBlacklist>
        <count>0</count>
      </urlBlacklist>
    </WebApp>
  </data>
</ServiceResponse>
```
Sample - Default authentication record details

Let us view the default authentication record details for a web application.

API request

curl -n -u "USERNAME:PASSWORD" -X GET -H 'Content-type: text/xml' "https://qualysapi.qualys.com/qps/rest/3.0/get/was/webapp/53040"

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WebApp>
            <id>53040</id>
            <name><![CDATA[WASUI-5597]]></name>
            ...
            <config>
                <defaultAuthRecord>

```xml
</urlBlacklist>
<urlWhitelist>
    <count>0</count>
</urlWhitelist>
<postDataBlacklist>
    <count>0</count>
</postDataBlacklist>
<logoutRegexList>
    <count>1</count>
    <list>
        <UrlEntry regex="true"><![CDATA[leave]]></UrlEntry>
    </list>
</logoutRegexList>
<authRecords>
    <count>0</count>
</authRecords>
```
```xml
</ServiceResponse>
```
Sample - Selenium crawl script

Let us get details for the webapp with a response that returns details of the selenium crawl script along with other details for the web application.

**API request**

```
curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/webapp/937657"
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/rest/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>937657</id>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <owner>
        <id>337014</id>
        <username>john_doe</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Doe]]></lastName>
      </owner>
      <scope>ALL</scope>
      <attributes>
        <count>0</count>
      </attributes>
      <defaultScanner>
        <type>EXTERNAL</type>
      </defaultScanner>
    </WebApp>
  </data>
</ServiceResponse>
```
<defaultScanner/>
<scannerLocked>false</scannerLocked>
<urlBlacklist>
  <count>0</count>
</urlBlacklist>
<urlWhitelist>
  <count>0</count>
</urlWhitelist>
<postDataBlacklist>
  <count>0</count>
</postDataBlacklist>
<logoutRegexList>
  <count>0</count>
</logoutRegexList>
<authRecords>
  <count>0</count>
</authRecords>
<dnsOverrides>
  <count>0</count>
</dnsOverrides>
<useRobots>IGNORE</useRobots>
<useSitemap>false</useSitemap>
<malwareMonitoring>false</malwareMonitoring>
<malwareNotification>false</malwareNotification>
<tags>
  <count>0</count>
</tags>
<comments>
  <count>0</count>
</comments>
<isScheduled>false</isScheduled>
<createdBy>
  <id>337014</id>
  <username>john_doe</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</createdBy>
<createdDate>2017-02-06T10:54:00Z</createdDate>
<updatedBy>
  <id>337014</id>
  <username>john_doe</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</updatedBy>
<updatedDate>2017-02-06T10:54:00Z</updatedDate>
<config/>
<crawlingScripts>
<count>1</count>
<list>
  <SeleniumScript>
    <id>2500</id>
    <name><![CDATA[TestSeleniumScript]]></name>
    <data><![CDATA[
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head profile="http://selenium-ide.openqa.org/profiles/test-case">
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
  <link rel="selenium.base" href="http://10.10.26.238" />
  <title>New Test</title>
  <body>
    <table cellspacing="1" border="1">
      <thead>
        <tr>
          <td colspan="3">New Test</td>
        </tr>
        <tr>
          <td>open</td>
          <td>http://10.10.26.238/</td>
          <td></td>
        </tr>
        <tr>
          <td>type</td>
          <td>name=login</td>
          <td>admin</td>
        </tr>
      </tr>
    </thead>
    <tbody>
    </tbody>
</table>
</body>
</head>
</html>]]></data>
</SeleniumScript>
</list>
</crawlingScripts>
Sample - Get details of a progressive scan

If Progressive Scanning is enabled for the subscription, the progressiveScanning element is displayed in GET call responses. If Progressive Scanning is not enabled for the subscription, the element is not included. For all existing web applications created prior to WAS 4.0 the value will be set to TRUE by default.

API request

```
curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/webapp/323102"
```

XML response

```
<ServiceResponse
```
Qualys Web Application Scanning API

Web Applications

<platform API server>/qps/xsd/3.0/was/webapp.xsd
Create Web Application

/qps/rest/3.0/create/was/webapp

[POST]

A web application is a configuration in your account. Once created, a user can select the web application as the target of a web application scan.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and WAS Asset Permission “Create Web Asset”. The output includes web applications in the user's scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. Click here for descriptions of <WebApp> elements.

Click here for available operators

When only “name” and “url” are specified:

- Scope defaults to ALL. The scanner will crawl all directories and sub-directories of the starting URL.

- No default option profile is specified. An option profile must be specified for each scan.

- No authentication records are defined. No form or server authentication will be performed.

- No blacklists or whitelists are defined. All directories and sub-directories of the starting URL will be scanned.

Samples
Create web app with minimum criteria

Create web app with one authentication record

Create web app with multiple criteria

Create web app with custom attributes

Create web app and set the default authentication record

Create web app and assign multiple scanner appliances

Create web app and add a selenium script

Create web app and configure Progressive Scanning

Sample - Create web app - minimum criteria

Let us create a new web application called “My Web Application” that has the starting URL “http://mywebapp.com”. The default web application settings are assigned automatically.

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/webapp/“ < file.xml
```

Note: “file.xml” contains the request POST data.

Request POST data

```
<ServiceRequest>
  <data>
    <WebApp>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
    </WebApp>
  </data>
</ServiceRequest>
```
XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>1912949</id>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <owner>
        <id>45941</id>
        <username>username</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
      </owner>
      <scope>ALL</scope>
      <attributes>
        <count>0</count>
      </attributes>
      <defaultScanner>
        <type>EXTERNAL</type>
      </defaultScanner>
      <scannerLocked>false</scannerLocked>
      <urlBlacklist>
        <count>0</count>
      </urlBlacklist>
      <urlWhitelist>
        <count>0</count>
      </urlWhitelist>
      <postDataBlacklist>
        <count>0</count>
      </postDataBlacklist>
      <authRecords>
        <count>0</count>
      </authRecords>
      <useRobots>IGNORE</useRobots>
      <useSitemap>false</useSitemap>
      <malwareMonitoring>false</malwareMonitoring>
    </WebApp>
  </data>
</ServiceResponse>
Sample - Create web app with one authentication record

Let us create a new web application called “My Web Application” that has the starting URL “http://mywebapp.com” and has 1 authentication record.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/webapp/" < file.xml

Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <data>
    <WebApp>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <authRecords>
        <set>
          <WebAppAuthRecord>
            <id>77350</id>
          </WebAppAuthRecord>
        </set>
      </authRecords>
    </WebApp>
  </data>
</ServiceRequest>
XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>1929030</id>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <owner>
        <id>45941</id>
        <username>username</username>
        <firstName><![CDATA[John]]></(firstName>
        <lastName><![CDATA[Smith]]></lastName>
      </owner>
      <scope>ALL</scope>
      <attributes>
        <count>0</count>
      </attributes>
      <defaultScanner>
        <type>EXTERNAL</type>
      </defaultScanner>
      <scannerLocked>false</scannerLocked>
      <urlBlacklist>
        <count>0</count>
      </urlBlacklist>
      <urlWhitelist>
        <count>0</count>
      </urlWhitelist>
      <postDataBlacklist>
        <count>0</count>
      </postDataBlacklist>
      <authRecords>
        <count>1</count>
      </authRecords>
    </WebApp>
  </data>
</ServiceResponse>
```
Sample - Create web app with multiple criteria

Let us create a new web application with the name “My Web Application” and the starting URL “http://www.example.com”. The web application is assigned custom settings as defined in the request POST data.

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/webapp/" file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <WebApp>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[http://www.example.com]]></url>
      <scope>DOMAINS</scope>
      <domains>
        <set>
          <Domain><![CDATA[corp2.ab.myapp.com]]></Domain>
          <Domain><![CDATA[corp1.myapp.com]]></Domain>
        </set>
      </domains>
      <uris>
        <set>
          <Url><![CDATA[http://corp1.myapp.com]]></Url>
          <Url><![CDATA[http://corp1.myapp.com/]]></Url>
          <Url><![CDATA[https://corp1.myapp.com]]></Url>
        </set>
      </uris>
    </WebApp>
  </data>
</ServiceResponse>
```
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<Url><![CDATA[https://corp1.myapp.com/]]></Url>
<Url><![CDATA[https://corp1.myapp.com:443]]></Url>
<Url><![CDATA[https://corp1.myapp.com:8080]]></Url>
<Url><![CDATA[http://corp1.myapp.com/startingUri]]></Url>
<Url><![CDATA[http://corp1.myapp.com/startingUri?param=true]]></Url>
<Url><![CDATA[http://corp1.myapp.com/startingUri?param=true&param2=false]]></Url>
<Url><![CDATA[http://corp1.myapp.com/otherUri]]></Url>
<Url><![CDATA[http://corp1.myapp.com/otherUri?param=1]]></Url>
<Url><![CDATA[http://corp2.ab.myapp.com/]]></Url>
<Url><![CDATA[http://corp2.ab.myapp.com/startingUri]]></Url>
<Url><![CDATA[http://corp2.ab.myapp.com/startingUri?param=true]]></Url>
<Url><![CDATA[http://corp2.ab.myapp.com/otherUri?param=1]]></Url>
<Url><![CDATA[https://corp2.ab.myapp.com:8080]]></Url>
<Url><![CDATA[http://corp2.ab.myapp.com/otherUri?param=1]]></Url>
<Url><![CDATA[https://corp2.ab.myapp.com:8080/otherUri]]></Url>
<Url><![CDATA[https://corp2.ab.myapp.com/otherUri?param=1]]></Url>
<Url><![CDATA[https://corp2.ab.myapp.com:8080/otherUri?param=1]]></Url>
<set>
<tags><set>
<Tag><id>217118</id></Tag>
<Tag><id>152743</id></Tag>
<Tag><id>216368</id></Tag>
<Tag><id>153442</id></Tag>
</set>
</tags>
</uris>
<defaultProfile>
<id>90212</id>
</defaultProfile>
<defaultScanner>
<type>INTERNAL</type>
<friendlyName><![CDATA[friendlyname]]></friendlyName>
</defaultScanner>
<dnsOverrides>
<set>
  <DnsOverride>
    <id>2022</id>
  </DnsOverride>
</set>
</dnsOverides>
<useRobots>BLACKLIST</useRobots>
<useSitemap>true</useSitemap>
<headers>
  <set>
    <WebAppHeader><![CDATA[some headers]]></WebAppHeader>
  </set>
</headers>
?urlBlacklist>
  <set>
    <UrlEntry regex="true">
      <![CDATA[http://rg.blacklist.*.qa.myapp.com]]></UrlEntry>
      <UrlEntry regex="true">
        <![CDATA[http://rg.blacklist.*?]]></UrlEntry>
        <![CDATA[http://url.blacklist.2.ab.myapp.com]]></UrlEntry>
        <UrlEntry regex="false">
          <![CDATA[http://url.blacklist.3.qa.myapp.com]]></UrlEntry>
    </set>
</urlBlacklist>
?urlWhitelist>
  <set>
    <UrlEntry regex="true">
      <![CDATA[http://rg.whitelist.*.qa.myapp.com]]></UrlEntry>
      <UrlEntry regex="true">
        <![CDATA[http://rg.whitelist.*?]]></UrlEntry>
        <![CDATA[http://url.whitelist.2.ab.myapp.com]]></UrlEntry>
        <UrlEntry regex="false">
          <![CDATA[http://url.whitelist.3.ab.myapp.com]]></UrlEntry>
    </set>
</urlWhitelist>
postDataBlacklist>
  <set>
    <UrlEntry regex="true">
      <![CDATA[http://rg.postdatblacklist.*.ab.myapp.com]]></UrlEntry>
      <UrlEntry regex="true">
        <![CDATA[http://rg.postdatblacklist.*?]]></UrlEntry>
  </set>
</postDataBlacklist>
<comments>
<set>
  <Comment>
    <contents><![CDATA[some additional comments]]></contents>
  </Comment>
</set>
</data>
</ServiceRequest>

### XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WebApp>
            <id>1912750</id>
            <name><![CDATA[My Web Application]]></name>
            <url><![CDATA[http://www.example.com]]></url>
            <owner>
                <id>45941</id>
                <username>username</username>
                <firstName><![CDATA[John]]></firstName>
                <lastName><![CDATA[Smith]]></lastName>
            </owner>
            <scope>DOMAINS</scope>
            <domains>
                <count>2</count>
                <list>
                    <Domain><![CDATA[corp1.myapp.com]]></Domain>
                    <Domain><![CDATA[corp2.ab.myapp.com]]></Domain>
                </list>
            </domains>
            <uris>
                <count>26</count>
                <list>
                    <Url><![CDATA[https://corp2.ab.myapp.com]]></Url>
                    <Url><![CDATA[http://corp1.myapp.com/otherUri?param=1]]></Url>
                    <Url><![CDATA[http://corp1.myapp.com/]]></Url>
                </list>
            </uris>
        </WebApp>
    </data>
</ServiceResponse>
```
<defaultProfile>
    <id>90212</id>
    <name><![CDATA[Initial WAS Options]]></name>
</defaultProfile>
<defaultScanner>
    <type>INTERNAL</type>
    <friendlyName><![CDATA[friendlyname]]></friendlyName>
</defaultScanner>
<scannerLocked>false</scannerLocked>
<dnsOverrides>
    <set>
        <DnsOverride>
            <id>2022</id>
        </DnsOverride>
    </set>
</dnsOverrides>
</DnsOverride>
</set>
</dnsOverrides>
<urlBlacklist>
<count>4</count>
<list>
<UrlEntry
regex="false"><![CDATA[http://url.blacklist.2.ab.myapp.com]]></UrlEntry>
<UrlEntry
regex="false"><![CDATA[http://url.blacklist.3.ab.myapp.com]]></UrlEntry>
<UrlEntry
regex="true"><![CDATA[http://rg.blacklist.*.ab.myapp.com]]></UrlEntry>
<UrlEntry
regex="true"><![CDATA[http://rg.blacklist.*?]]></UrlEntry>
</list>
</urlBlacklist>
<urlWhitelist>
<count>4</count>
<list>
<UrlEntry
regex="true"><![CDATA[http://rg.whitelist.*.ab.myapp.com]]></UrlEntry>
<UrlEntry
regex="true"><![CDATA[http://rg.whitelist.*?]]></UrlEntry>
<UrlEntry
regex="false"><![CDATA[http://url.whitelist.2.ab.myapp.com]]></UrlEntry>
<UrlEntry
regex="false"><![CDATA[http://url.whitelist.3.ab.myapp.com]]></UrlEntry>
</list>
</urlWhitelist>
<postDataBlacklist>
<count>2</count>
<list>
<UrlEntry
regex="true"><![CDATA[http://rg.postdatblacklist.*.ab.myapp.com]]></UrlEntry>
<UrlEntry
regex="true"><![CDATA[http://rg.postdatblacklist.*?]]></UrlEntry>
</list>
</postDataBlacklist>
<authRecords>
<count>0</count>
</authRecords>
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Sample - Create web app with custom attributes

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @"https://qualysapi.qualys.com/qps/rest/3.0/create/was/webapp/" < 
file.xml
```
Note: “file.xml” contains the request POST data.

Request POST data

```
<ServiceRequest>
  <data>
    <WebApp>
      <name><![CDATA[Custom Attribute via API]]></name>
      <url><![CDATA[http://funkytown.vuln.qa.qualys.com:80/updated_web_app_name/]]></url>
      <attributes>
        <set>
          <Attribute>
            <name>Custom key 1</name>
            <value><![CDATA[Custom value 1]]></value>
          </Attribute>
        </set>
      </attributes>
    </WebApp>
  </data>
</ServiceRequest>
```
XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>2514680</id>
      <name><![CDATA[Custom Attribute via API]]></name>
      <url><![CDATA[http://funkytown.vuln.qa.qualys.com:80/updated_web_app_name/]]></url>
      <owner>
        <id>4354</id>
        <username>user_steve</username>
        <firstName><![CDATA[Steve]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
      </owner>
      <scope>ALL</scope>
      <attributes>
        <count>1</count>
        <list>
          <Attribute>
            <name><![CDATA[Custom key 1]]></name>
            <value><![CDATA[Custom value 1]]></value>
          </Attribute>
        </list>
      </attributes>
      <defaultScanner>
        <type>EXTERNAL</type>
      </defaultScanner>
      <scannerLocked>false</scannerLocked>
      <progressiveScanning>true</progressiveScanning>
      <urlBlacklist>
        <count>0</count>
      </urlBlacklist>
      <urlWhitelist>
        <count>0</count>
      </urlWhitelist>
      <postDataBlacklist>
        <count>0</count>
      </postDataBlacklist>
      <authRecords>
        <count>0</count>
      </authRecords>
    </WebApp>
  </data>
</ServiceResponse>
Sample - Create web app and set the default authentication record

Let us configure the default authentication record while creating or updating the web application. Create a web application with default authentication record ID #9133.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/webapp/" <
file.xml
Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <WebApp>
      <name><![CDATA[Create webapp with default auth record]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <scope>ALL</scope>
      <scannerLocked>false</scannerLocked>
      <useRobots>IGNORE</useRobots>
      <useSitemap>false</useSitemap>
      <malwareMonitoring>false</malwareMonitoring>
      <config>
        <defaultAuthRecord>
          <id>9133</id>
        </defaultAuthRecord>
      </config>
    </WebApp>
  </data>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/
  was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>53040</id>
      <name><![CDATA[Create webapp with default auth record]]></name>
      ...<config>
        <defaultAuthRecord>
```
Sample - Create web app and assign multiple scanner appliances

Let us create a new web application called “My Web Application” with the starting URL “http://mywebapp.com” and assign a group of scanners using tag Scannerpool (ID 15415353311147). The default web application settings are assigned automatically.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-"https://qualysapi.qualys.com/qps/rest/3.0/create/was/webapp/" < file.xml
Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <WebApp>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <defaultScannerTags>
        <set>
          <Tag>
            <id>15415353311147</id>
          </Tag>
        </set>
      </defaultScannerTags>
    </WebApp>
  </data>
</ServiceRequest>
```

**XML response**

```xml
<id>9133</id>
<name><![CDATA[WAS-9133]]></name>
</defaultAuthRecord>
</config>
</WebApp>
</data>
</ServiceResponse>
```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WebApp>
            <id>842422</id>
            <name><![CDATA[My Web Application]]></name>
            <url><![CDATA[http://mywebapp.com]]></url>
            <owner>
                <id>337014</id>
                <username>user_john</username>
                <firstName><![CDATA[John]]></firstName>
                <lastName><![CDATA[Doe]]></lastName>
            </owner>
            <scope>ALL</scope>
            <attributes>
                <count>0</count>
            </attributes>
            <defaultScannerTags>
                <count>1</count>
                <list>
                    <Tag>
                        <id>1541535331147</id>
                        <name> <![CDATA[TagForScanner]]>
                    </Tag>
                </list>
            </defaultScannerTags>
            <scannerLocked>false</scannerLocked>
            <progressiveScanning>false</progressiveScanning>
            <urlBlacklist>
                <count>0</count>
            </urlBlacklist>
            <urlWhitelist>
                <count>0</count>
            </urlWhitelist>
            <postDataBlacklist>
                <count>0</count>
            </postDataBlacklist>
            <logoutRegexList>
        </WebApp>
    </data>
</ServiceResponse>
Sample - Create web app and add a selenium script

Let us create a new web application called “My Web Application” that has the starting URL “http://mywebapp.com” and add selenium script (TestSeleniumScript) to it.

API request
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/webapp/" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

```xml
<ServiceRequest>
  <data>
    <WebApp>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <crawlingScripts>
        <set>
          <SeleniumScript>
            <name><![CDATA[TestSeleniumScript]]></name>
            <startingUrl><![CDATA[http://www.mywebapp.com]]></startingUrl>
          </SeleniumScript>
        </set>
      </crawlingScripts>
    </WebApp>
  </data>
</ServiceRequest>
```

<![CDATA[<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head profile="http://selenium-ide.openqa.org/profiles/test-case">
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<link rel="selenium.base" href="http://10.10.26.238" />
<title>New Test</title></head>
<body>
<table cellpadding="1" cellspacing="1" border="1">
<thead>
<tr><td rowspan="1" colspan="3">New Test</td></tr>
</thead>
<tbody>
<tr><td>open</td><td>http://10.10.26.238/</td><td></td></tr>
<tr><td>type</td><td>name=login</td><td>admin</td></tr>
<tr><td>type</td><td>name=password</td><td>abc123</td></tr>
<tr><td>clickAndWait</td><td>name=submit</td><td></td></tr>
</tbody>
</table>
```
XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/rest/xsd/3.0/was/webapp.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WebApp>
            <id>937657</id>
            <name><![CDATA[My Web Application]]></name>
            <url><![CDATA[http://mywebapp.com]]></url>
            <owner>
                <id>337014</id>
                <username>john_doe</username>
                <firstName><![CDATA[John]]></firstName>
                <lastName><![CDATA[Doe]]></lastName>
            </owner>
            <scope>ALL</scope>
            <attributes>
                <count>0</count>
            </attributes>
            <defaultScanner>
                <type>EXTERNAL</type>
            </defaultScanner>
            <scannerLocked>false</scannerLocked>
            <urlBlacklist>
                <count>0</count>
            </urlBlacklist>
            <urlWhitelist>
                <count>0</count>
            </urlWhitelist>
            <postDataBlacklist>
                <count>0</count>
            </postDataBlacklist>
            <logoutRegexList>
                <count>0</count>
            </logoutRegexList>
        </WebApp>
    </data>
</ServiceResponse>
```
<count>0</count>
</authRecords>
<dnsOverrides>
  <count>0</count>
</dnsOverrides>
<useRobots>IGNORE</useRobots>
<useSitemap>false</useSitemap>
<malwareMonitoring>false</malwareMonitoring>
<malwareNotification>false</malwareNotification>
<tags>
  <count>0</count>
</tags>
<comments>
  <count>0</count>
</comments>
<isScheduled>false</isScheduled>
<createdBy>
  <id>337014</id>
  <username>john_doe</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</createdBy>
<createdDate>2017-02-06T10:54:00Z</createdDate>
<updatedBy>
  <id>337014</id>
  <username>john_doe</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</updatedBy>
<updatedDate>2017-02-06T10:54:00Z</updatedDate>
<config/>
<scrappingScripts>
  <count>1</count>
  <list>
    <SeleniumScript>
      <id>2500</id>
      <name><![CDATA[TestSeleniumScript]]></name>
      <data><![CDATA[
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
]]>
</SeleniumScript>
</list>
</scrappingScripts>
Sample: Progressive Scanning

The user will be able to set `progressiveScanning` to true or false, if Progressive Scanning is enabled for the subscription. When Progressive Scanning is enabled for the subscription, if `progressiveScanning` option is not specified during CREATE request, by default the option will be enabled for the web application.

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/webapp/" < file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <data>
    <WebApp>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <progressiveScanning>false</progressiveScanning>
    </WebApp>
  </data>
</ServiceRequest>
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
```
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If Progressive Scanning is not enabled for the subscription, the `<progressiveScanning>` element cannot not be provided, otherwise an error will be returned.

**XML response (error)**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>INVALID_REQUEST</responseCode>
  <responseErrorDetails>
    <errorMessage>Progressive scanning is not enabled in your subscription.</errorMessage>
    <errorResolution>Please check with your account manager to enable this option.</errorResolution>
  </responseErrorDetails>
</ServiceResponse>
```

**XSD**

`<platform_API_server>/qps/xsd/3.0/was/webapp.xsd`
Update Web Application

/qps/rest/3.0/update/was/webapp/<id>

[POST]

Update a web application configuration in your account.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and WAS Asset Permission “Edit Web Asset”, “Edit Web Application URL” and “Select and Lock/Unlock Scanner Appliance”. The output includes web applications in the user's scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies a web application.

Click here for available operators

Samples

Update web app with minimum information

Update authentication records for web app

Update multiple settings

Update web app to set default cancel time

Update custom attribute value for the web app

Update the default authentication record of the web app
Sample - Update web app with minimum information

Let us update information for the web application with ID 1234, change the name to “My WebApp Name”.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/update/was/webapp/1234" < file.xml

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <WebApp>
      <name>My WebApp Name</name>
    </WebApp>
  </data>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>1234</id>
    </WebApp>
  </data>
</ServiceResponse>
```

Sample - Update authentication records for web app

Let us update web application with ID 1234, add 1 authentication record and remove 1 authentication record.

**API request**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/authentication.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>0</count>
  <data>
    <Authentication>
      <id>1234</id>
    </Authentication>
  </data>
</ServiceResponse>
```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/update/was/webapp/1234" < file.xml
Note: “file.xml” contains the request POST data.

### Request POST data

```
<ServiceRequest>
  <data>
    <WebApp>
      <name><![CDATA[My WebApp Name]]></name>
    </WebApp>

    <authRecords>
      <add>
        <WebAppAuthRecord>
          <id>77355</id>
        </WebAppAuthRecord>
      </add>

      <remove>
        <WebAppAuthRecord>
          <id>77356</id>
        </WebAppAuthRecord>
      </remove>
    </authRecords>
  </data>
</ServiceRequest>
```

### XML response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>1234</id>
    </WebApp>
  </data>
</ServiceResponse>
```

### Sample - Update multiple settings
Let us update multiple settings for a web application. The web application is assigned custom settings as defined in the request POST data.

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/update/was/webapp/2607056"
< file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
   <data>
      <WebApp>
         <name>My Web Application</name>
         <url>http://mywebapp.com</url>
         <attributes>
            <remove>
               <Attribute>
                  <name>Business Function</name>
               </Attribute>
               <Attribute>
                  <name>Business Location</name>
               </Attribute>
            </remove>
            <update>
               <Attribute>
                  <name>Business Description</name>
                  <value>Business Description Value - UPDATED</value>
               </Attribute>
            </update>
         </attributes>
         <defaultProfile><id>365333</id></defaultProfile>
         <urlBlacklist>
            <set>
               <UrlEntry><![CDATA[http://url.blacklist.1.mywebapp.com]]></UrlEntry>
               <UrlEntry regex="false"><![CDATA[http://url.blacklist.2.mywebapp.com]]></UrlEntry>
               <UrlEntry regex="true"><![CDATA[http://rg.blacklist.*.com]]></UrlEntry>
            </set>
         </urlBlacklist>
   </data>
</ServiceRequest>
```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>2607056</id>
    </WebApp>
  </data>
</ServiceResponse>
Sample - Update web app to set default cancel time

Let us set the default cancel scan option for web application ID 2392272. Scans of this web application will be set to cancel at 10pm by default.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/update/was/webapp/2392272"
< file.xml
Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <data>
    <WebApp>
      <name><![CDATA[My Web App]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <config><cancelScansAt>22:00</cancelScansAt></config>
    </WebApp>
  </data>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>2392272</id>
    </WebApp>
  </data>
</ServiceResponse>
```

Sample - Update custom attribute value for the web app
Sample - Update the default authentication record of the web app

Let us update the default authentication record for the web application with ID 33831.
### API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/update/was/webapp/33831" < file.xml
```

Note: “file.xml” contains the request POST data.

### Request POST data

```
<ServiceRequest>
  <data>
    <WebApp>
      <config>
        <defaultAuthRecord>
          <id>9133</id>
        </defaultAuthRecord>
      </config>
    </WebApp>
  </data>
</ServiceRequest>
```

### XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>33831</id>
    </WebApp>
  </data>
</ServiceResponse>
```

### XSD

```
<platform_API_server>/qps/xsd/3.0/was/webapp.xsd
```
Delete Web Application

/qps/rest/3.0/delete/was/webapp/<id>

/qps/rest/3.0/delete/was/webapp/<filters>

[POST]

Delete a web application configuration in your account.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and WAS Asset Permission “Delete Web Asset”. The web application to be deleted must be within the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. Click here for descriptions of <WebApp> elements.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) Web application ID.</td>
</tr>
<tr>
<td>name</td>
<td>(text) Web application name.</td>
</tr>
<tr>
<td>url</td>
<td>(text) The URL of web application.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to web application.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) Tag ID assigned to web application.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the web application was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>Field</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date when the web application was last updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>isScheduled</td>
<td>(boolean) A flag indicating whether a scan is scheduled for web application.</td>
</tr>
<tr>
<td>isScanned</td>
<td>(boolean) A flag indicating whether the web application has been scanned.</td>
</tr>
<tr>
<td>lastScan.status</td>
<td>(keyword) Scan status reported by last web application scan: SUBMITTED, RUNNING, FINISHED, TIME_LIMIT_EXCEEDED, SCAN_NOT_LAUNCHED, SCANNER_NOT_AVAILABLE, ERROR or CANCELED</td>
</tr>
<tr>
<td>lastScan.date</td>
<td>(date) Date when web application was last scanned, in UTC date/time format.</td>
</tr>
</tbody>
</table>

**Sample - Delete a single web application**

Let us delete the web application that has the ID 1234.

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X POST "https://qualysapi.qualys.com/qps/rest/3.0/delete/was/webapp/1234"
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>1234</id>
    </WebApp>
  </data>
</ServiceResponse>
```
Sample - Delete bulk web applications

Let us delete web applications in the user's account that have a name with the word “Merchant” and have an ID greater than 323000.

### API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/delete/was/webapp/" < file.xml
```

Note: “file.xml” contains the request POST data.

### Request POST data

```
<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">Merchant</Criteria>
    <Criteria field="id" operator="GREATER">323000</Criteria>
  </filters>
</ServiceRequest>
```

### XML response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>3</count>
  <data>
    <WebApp>
      <id>323126</id>
    </WebApp>
    <WebApp>
      <id>324256</id>
    </WebApp>
    <WebApp>
      <id>323476</id>
    </WebApp>
  </data>
</ServiceResponse>
```

XSD
<platform API server>/qps/xsd/3.0/was/webapp.xsd
Purge Web Application

/qps/rest/3.0/purge/was/webapp/<id>
/qps/rest/3.0/purge/was/webapp/<filters>

[POST]

Purging a web application results in removal of the scan findings from the web application's scan history. Henceforth, the newly generated web application reports will not include findings from previously completed scans. All dates must be entered in UTC date/time format.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and WAS Asset Permission “Purge Web Asset”. The web application to be purged must be within the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. Click here for descriptions of <WebApp> elements.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) Web application ID.</td>
</tr>
<tr>
<td>name</td>
<td>(text) Web application name.</td>
</tr>
<tr>
<td>url</td>
<td>(text) The URL of web application.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to web application.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) Tag ID assigned to web application.</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API
Web Applications

<table>
<thead>
<tr>
<th>createdDate</th>
<th>(date) The date when the web application was created in WAS, in UTC date/time format.</th>
</tr>
</thead>
<tbody>
<tr>
<td>updatedDate</td>
<td>(date) The date when the web application was last updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>isScheduled</td>
<td>(boolean) A flag indicating whether a scan is scheduled for web application.</td>
</tr>
<tr>
<td>isScanned</td>
<td>(boolean) A flag indicating whether the web application has been scanned.</td>
</tr>
<tr>
<td>lastScan.status</td>
<td>(keyword) Scan status reported by last web application scan: SUBMITTED, RUNNING, FINISHED, TIME_LIMIT_EXCEEDED, SCAN_NOT_LAUNCHED, SCANNER_NOT_AVAILABLE, ERROR or CANCELED</td>
</tr>
<tr>
<td>lastScan.date</td>
<td>(date) Date when web application was last scanned, in UTC date/time format.</td>
</tr>
</tbody>
</table>

Sample - Purge a single web application

Let us purge the web application with ID 32420.

**API request**
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" https://qualysapi.qualys.com/qps/rest/3.0/purge/was/webapp/32420

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>32420</id>
    </WebApp>
  </data>
</ServiceResponse>
```
Sample - Purge multiple web applications

Let us purge web applications in the user’s account that have a name with the word “Merchant” and have an ID greater than 323000.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
https://qualysapi.qualys.com/qps/rest/3.0/purge/was/webapp/ < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">Merchant</Criteria>
    <Criteria field="id" operator="GREATER">323000</Criteria>
  </filters>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>3</count>
  <data>
    <WebApp>
      <id>323126</id>
    </WebApp>
    <WebApp>
      <id>324256</id>
    </WebApp>
    <WebApp>
      <id>323476</id>
    </WebApp>
  </data>
</ServiceResponse>
<platform API server>/qps/xsd/3.0/was/webapp.xsd
Download Selenium Script

/qps/rest/3.0/downloadSeleniumScript/was/webapp

[POST]

Download the selenium script file that is associated with the web application.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and WAS Asset Permission “View/download Selenium Script sensitive contents”. The web application to be purged must be within the user’s scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies a web application.

Click here for available operators

Sample - Download selenium script

Let us download the selenium script file associated with a web application with ID 1234.

<table>
<thead>
<tr>
<th>API request</th>
</tr>
</thead>
<tbody>
<tr>
<td>curl -u &quot;USERNAME:PASSWORD&quot; -H &quot;content-type: text/xml&quot; -X &quot;POST&quot; --data-binary @- <a href="https://qualysapi.qualys.com//qps/rest/3.0/downloadSeleniumScript/was/webapp/">https://qualysapi.qualys.com//qps/rest/3.0/downloadSeleniumScript/was/webapp/</a>&quot; &lt; file.xml</td>
</tr>
<tr>
<td>Note: “file.xml” contains the request POST data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Request POST data</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;ServiceRequest&gt;</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>&lt;/ServiceRequest&gt;</td>
</tr>
</tbody>
</table>
XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
  <head profile="http://selenium-ide.openqa.org/profiles/test-case">
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <link rel="selenium.base" href="http://10.10.26.238" />
    <title>New Test</title>
  </head>
  <body>
    <table cellpadding="1" cellspacing="1" border="1">
      <thead>
        <tr>
          <td rowspan="1" colspan="3">New Test</td>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td>open</td>
          <td>http://10.10.26.238/</td>
          <td/>
        </tr>
        <tr>
          <td>type</td>
          <td>name=login</td>
          <td>admin</td>
        </tr>
        <tr>
          <td>type</td>
          <td>name=password</td>
          <td>abc123</td>
        </tr>
        <tr>
          <td>clickAndWait</td>
          <td>name=submit</td>
          <td/>
        </tr>
      </tbody>
    </table>
  </body>
</html>
```
<platform_API_server>/qps/xsd/3.0/was/webapp.xsd
### Reference: WebApp

The `<WebApp>` element includes sub elements used to define a web application. A reference of these elements is provided below. An asterisk * indicates a complex element.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) Web application ID. This element is assigned by the service and required for an update request.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The web application name (maximum 256 characters). This element is required to create a web application.</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) Type of the finding: VULNERABILITY, SENSITIVE_CONTENT, or INFORMATION_GATHERED.</td>
</tr>
<tr>
<td>url</td>
<td>(text) The URL of the web application maximum 2048 characters). This element is required to create a web application.</td>
</tr>
<tr>
<td>os</td>
<td>(text) The operating system of the web application.</td>
</tr>
<tr>
<td>owner</td>
<td>(text) This element is assigned by the service and may be specified for an update request only.</td>
</tr>
<tr>
<td>config*</td>
<td>Configure the cancel scan option. Specify “cancel after” time or “cancel at” time. Only one of <code>&lt;cancelScansAfterNHours&gt;</code> or <code>&lt;cancelScanstAt&gt;</code> is allowed in one config section.</td>
</tr>
</tbody>
</table>

Example for “cancel after” time:

```xml
<config>
  <cancelScansAfterNHours>3</cancelScansAfterNHours>
</config>
```

Example for “cancel at” time:
<config>
  <cancelScansAt>2017-06-10T12:00:00Z</cancelScansAt>
</config>

Notes about updating web applications:
- If none of the above elements are specified in the config section, the default cancel option is removed from the web app settings.

- If the config section is not specified, no changes are made to the web app settings.

You can set one of the DNS override records that you assigned to your web application as the default record for the web application. The default DNS override setting is useful when you want to scan multiple web applications using the DNS override option. We will use the default DNS override record that you have set for your web applications to launch scan on them.

The parameter for setting the default DNS override is config.defaultDnsOverride.id. This parameter takes the ID of the DNS override record that you want to set as the default record.

This is an optional parameter.

Example:

<config>
  <defaultDnsOverride>
    <id>14620</id>
  </defaultDnsOverride>
</config>

attributes* Custom web application attributes.

Example:

<attributes>
  <set>
    <Attribute>
Qualys Web Application Scanning API

Web Applications

- **tags**
  - Tags assigned to the web application.
  
  **Example:**
  
  <tags>
    <set>
      <Tag>
        <id>12345</id>
      </Tag>
      <Tag>
        <id>12345678</id>
      </Tag>
    </set>
  </tags>

- **comments**
  - (text) Comments on the web application.

- **scope**
  - (keyword) The scanning scope for the web application: ALL (default), LIMIT, SUBDOMAIN or DOMAINS.
  
  - If set to ALL, the scan will crawl all directories and sub-directories of the starting URL.
  
  - If set to LIMIT, crawling will be limited to the starting URI’s initial path and sub-directories.
  
  - If set to SUBDOMAINS, any sub-domain that is in the same domain as the specified domain name will be crawled.
  
  - If set to DOMAINS, only the specified domains will be crawled.
| **Qualys Web Application Scanning API**  
**Web Applications** |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>uris</strong> (text) Additional URLs to crawl. Each must be a valid HTTP or HTTPS URL consistent with the web application scope.</td>
</tr>
<tr>
<td><strong>Malware Monitoring</strong></td>
</tr>
<tr>
<td><strong>malwareMonitoring</strong> (boolean) A flag indicating whether Malware Monitoring is enabled for the web application.</td>
</tr>
<tr>
<td>Example:&lt;malwareMonitoring&gt;true&lt;/malwareMonitoring&gt;</td>
</tr>
<tr>
<td><strong>malwareNotification</strong> (boolean) A flag indicating whether email notification is enabled for Malware Monitoring scans.</td>
</tr>
<tr>
<td>Example:&lt;malwareNotification&gt;true&lt;/malwareNotification&gt;</td>
</tr>
<tr>
<td><strong>malwareScheduling</strong> Schedule Malware Monitoring scans for your web application with various scheduling options.</td>
</tr>
<tr>
<td>&lt;occurrenceType&gt; can be set to one of: ONCE, HOURLY, DAILY, WEEKLY, MONTHLY.</td>
</tr>
<tr>
<td><strong>Scan Settings</strong></td>
</tr>
<tr>
<td><strong>defaultProfile</strong> The default option profile for scanning the web application. When unspecified, an option profile must be specified by the user for each scan.</td>
</tr>
<tr>
<td>&lt;defaultProfile&gt;</td>
</tr>
<tr>
<td>&lt;id&gt;139359&lt;/id&gt;</td>
</tr>
<tr>
<td>&lt;name&gt;&lt;![CDATA[10 Links edit]]&gt;&lt;/name&gt;</td>
</tr>
<tr>
<td>&lt;/defaultProfile&gt;</td>
</tr>
<tr>
<td><strong>defaultScanner</strong> The default scanner for the web application. A default scanner is optional.</td>
</tr>
<tr>
<td>For type (keyword) specify INTERNAL for a scanner appliance. If type is INTERNAL, specify friendlyName (text).</td>
</tr>
<tr>
<td>EXTERNAL for the external scanners or scannerTags for</td>
</tr>
</tbody>
</table>
### assigning multiple scanner appliances grouped by asset tag.

Example:

```xml
<defaultScanner>
  <type>INTERNAL</type>
  <friendlyName>dp_scanner</friendlyName>
</defaultScanner>
```

<table>
<thead>
<tr>
<th>proxy.id</th>
<th>(integer) The default proxy for scanning the web application.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Example:</td>
</tr>
</tbody>
</table>
|          | ```xml
|          | <proxy>
|          |  <id>12345</id>
|          | </proxy>                                                    |
| scannerLocked | (boolean) A flag indicating whether the default scanner appliance is locked for the web application. |
|          | Example:                                                    |
|          | ```xml
|          | <scannerLocked>false</scannerLocked>                      |
| dnsOverrrides* | Assign DNS override settings, one or more records, to a web application. |
|          | Example:                                                    |
|          | ```xml
|          | <dnsOverrrides>
|          |  <set>
|          |   <DnsOverride>
|          |     <id>2022</id>
|          |   </DnsOverride>
|          |  </set>
|          | ```
### useRobots (keyword)
A flag indicating whether to observe the Robots.txt file and its directives if found when scanning the web application.

- **If set to IGNORE** (default) the Robots.txt file is ignored.
- **If set to ADD_PATHS**, the “disallow” and “allow” directives in the Robots.txt file will be observed; this means these directives will be added as link hints for the crawler.
- **If set to BLACKLIST** the “disallow” directives in the Robots.txt file will be observed; this means scans will not crawl matching links.

### useSitemap (Boolean)
A flag indicating whether to adhere to a sitemap.xml file if present in the web application: true or false (default).

### headers*
The headers that need to be injected by the scanning engine to scan the web application for complex authentication schemes or to impersonate a web browser.

### urlBlacklist*
The URLs for the black list. These are web application links (URLs) that you do not want scanned. For each URL, specify UrlEntry (text). If the attribute regex (Boolean) is set to “true” the service performs a regular expression match.

### urlWhitelist*
The URLs for the white list. These are web application links (URLs) that you want to be scanned.

For each URL, specify UrlEntry (text). If the attribute regex (Boolean) is set to ”true” the service performs a regular expression match.

### postDataBlacklist*
The web application URLs for which you want to block form submission (POST data), as this could have unwanted side effects.

For each URL, specify UrlEntry (text). The attribute regex (Boolean) can be set to “true” for a regular expression match.
<table>
<thead>
<tr>
<th>authRecords*</th>
<th>The web application authentication records. The WebAppAuthRecords element identifies a set of authentication instances (combination of form and types).</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebAppAuthRecord*</td>
<td>Under &lt;authRecords&gt;, this element identifies an authentication record assigned to the web application. Prior to WAS 3.1, authentication records and their settings were defined here using the Web Application API. Now you can manage authentication records using the Authentication API.</td>
</tr>
<tr>
<td>CrawlingScript</td>
<td>The selenium crawl script for your web application. The SeleniumScript element tells the selenium script details.</td>
</tr>
<tr>
<td>SeleniumScript</td>
<td>Under &lt;CrawlingScript&gt;, this element provides more information such as name of the script (text), start point of the crawl, if authentication is required or not, and such other details about the selenium script associated with the web application.</td>
</tr>
</tbody>
</table>

Example:

```xml
<crawlingScripts>
  <count>1</count>
  <list>
    <SeleniumScript>
      <id>2500</id>
      <name><![CDATA[name of the Script]]></name>
      <data>.....</data>
      <requiresAuthentication>true</requiresAuthentication>
    </SeleniumScript>
  </list>
</crawlingScripts>
```
Qualys Web Application Scanning API

Web Applications

<startingUrl>URL</startingUrl>

<startingUrlRegex>
  true
</startingUrlRegex>

</SeleniumScript>

</list> </crawlingScripts>

<table>
<thead>
<tr>
<th>Elements Assigned by the Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
</tr>
<tr>
<td>owner</td>
</tr>
<tr>
<td>isScheduled</td>
</tr>
<tr>
<td>createdBy</td>
</tr>
<tr>
<td>createdDate</td>
</tr>
<tr>
<td>updatedBy</td>
</tr>
<tr>
<td>updatedDate</td>
</tr>
<tr>
<td>lastScan</td>
</tr>
<tr>
<td>lastScan.status</td>
</tr>
</tbody>
</table>
Authentication

Authentication Count

/qps/rest/3.0/count/was/webappauthrecord

[GET] [POST]

Returns the total number of authentication records in the user’s scope. Input elements are optional and are used to filter the number of authentication records included in the count.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and Asset Management Permission “Read Asset”. The output includes authentication records in the user's scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. Click here for descriptions of <WebApp> elements

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) Authentication record ID.</td>
</tr>
<tr>
<td>name</td>
<td>(text) Authentication record name.</td>
</tr>
<tr>
<td>tags</td>
<td>(integer) Tag associated with the authentication record.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to the authentication record.</td>
</tr>
</tbody>
</table>
### Qualys Web Application Scanning API

**Authentication**

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>tags.id</td>
<td>(integer) Tag ID assigned to the authentication record.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the authentication record was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date when the authentication record was updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>lastScan.date</td>
<td>(date) The date when the web application (associated with the authentication record) was last scanned, in UTC date/time format.</td>
</tr>
<tr>
<td>lastScan.authStatus</td>
<td>(keyword) Authentication status reported by the last web application scan: NONE, NOT_USED, SUCCESSFUL, FAILED or PARTIAL</td>
</tr>
<tr>
<td>isUsed</td>
<td>(boolean) Indicates whether used by a web application or scan.</td>
</tr>
<tr>
<td>contents</td>
<td>(keyword): FORM_STANDARD, FORM_CUSTOM, FORM_SELENIUM, SERVER_BASIC, SERVER_DIGEST</td>
</tr>
</tbody>
</table>

**Sample - Get count of authentication records in user’s account**

Return the number (count) of all authentication records in the user’s scope.

**API request**

```bash
curl -u "USERNAME:PASSWORD" https://qualysapi.qualys.com/qps/rest/3.0/count/was/webappauthrecord/
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webappauthrecord.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>3</count>
</ServiceResponse>
```
Sample - Get count of authentication records with a criteria

Return the number (count) authentication records that have a name that contains the term “server”.

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/count/was/webappauthrecord/" < file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">server</Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
```

**XSD**

```xml
<platform_API_server>/qps/xsd/3.0/was/webappauthrecord.xsd
```
Search Authentication Record

/qps/rest/3.0/search/was/webappauthrecord

[POST]

Returns a list of authentication records which are in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes authentication records in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. Click here for descriptions of <WebApp> elements

The special field=attributes attribute for the Criteria element is used to search custom attributes (see sample below).

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) Authentication record ID.</td>
</tr>
<tr>
<td>name</td>
<td>(text) Authentication record name.</td>
</tr>
<tr>
<td>tags</td>
<td>(integer) Tag associated with the authentication record.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to the authentication record.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) Tag ID assigned to the authentication record.</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API

Authentication

createdDate (date) The date when the authentication record was created in WAS, in UTC date/time format.

updatedDate (date) The date when the authentication record was updated in WAS, in UTC date/time format.

lastScan.date (date) The date when the web application (associated with the authentication record) was last scanned, in UTC date/time format.

lastScan.authStatus (keyword) Authentication status reported by the last web application scan: NONE, NOT_USED, SUCCESSFUL, FAILED or PARTIAL

isUsed (boolean) Indicates whether used by a web application or scan.

contents (keyword): Type of authentication record: FORM_STANDARD, FORM_CUSTOM, FORM_SELENIUM, SERVER_BASIC, SERVER_DIGEST

Sample - Search authentication records (no criteria)

Let us view a list of all authentication records in the user’s scope.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" "https://qualysapi.qualys.com/qps/rest/3.0/search/was/webappauthrecord/"

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webappauthrecord.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>3</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
```
Sample - Search for a particular authentication record

**API request**
```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/search/was/webappauthrecord/" < file.xml
```
Note: “file.xml” contains the request POST data.

**Request POST data**
```xml
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="EQUALS">82605</Criteria>
  </filters>
</ServiceRequest>
```
XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webappauthrecord.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <WebAppAuthRecord>
      <id>82605</id>
      <name>Sample auth</name>
      <owner>
        <id>75913465</id>
        <username>username</username>
        <firstName>John</firstName>
        <lastName>Smith</lastName>
      </owner>
      <tags></tags>
      <createdDate>2018-11-15T09:30:24Z</createdDate>
      <updatedDate>2018-11-15T09:30:24Z</updatedDate>
    </WebAppAuthRecord>
  </data>
</ServiceResponse>

XSD

<platform API server>/qps/xsd/3.0/was/webappauthrecord.xsd
Get Authentication Record Details

/qps/rest/3.0/get/was/webappauthrecord/<id>

[GET]

View details for an authentication record which is in the user’s scope. Want to find a record ID to use as input? See Search authentication records.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes authentication records in the user’s scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies the authentication record.

Click here for available operators

Sample - View details for the authentication record

Let us view details for authentication record ID 74078.

API request

curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/webappauthrecord/74078"

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webappauthrecord.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WebAppAuthRecord>
            <id>74078</id>
        </WebAppAuthRecord>
    </data>
</ServiceResponse>
<name><![CDATA[My Authentication Record]]></name>
<owner>
  <id>4354</id>
  <username>username</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Smith]]></lastName>
</owner>
<formRecord>
  <type>STANDARD</type>
  <sslOnly>true</sslOnly>
  <fields>
    <count>2</count>
    <list>
      <WebAppAuthFormRecordField>
        <id>826453</id>
        <name><![CDATA[name1]]></name>
        <value><![CDATA[value]]></value>
      </WebAppAuthFormRecordField>
      <WebAppAuthFormRecordField>
        <id>826452</id>
        <name><![CDATA[name2]]></name>
        <value><![CDATA[value]]></value>
      </WebAppAuthFormRecordField>
    </list>
  </fields>
</formRecord>
<tags>
  <count>1</count>
  <list>
    <Tag>
      <id>1418973</id>
      <name><![CDATA[Cert Tag]]></name>
    </Tag>
  </list>
</tags>
<comments>
  <count>0</count>
</comments>
<createdDate>2017-09-23T20:21:04Z</createdDate>
<createdBy>
  <id>4354</id>
  <username>username</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Smith]]></lastName>
</createdBy>
Sample - Password is masked

Let us fetch authentication record details with the password fields masked when sub user has disabled "View Password in Authentication Record" and "View/download Selenium Script sensitive contents" permissions.

API request

```bash
curl -n -u "USERNAME:PASSWORD" 
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/webappauthrecord/761533"
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webappauthrecord.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebAppAuthRecord>
      <id>761533</id>
      <name><![CDATA[Selenium record]]></name>
      <owner>
        <id>75670165</id>
        <username>quays_js</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
      </owner>
    </WebAppAuthRecord>
  </data>
</ServiceResponse>
```
<formRecord>
  <type>SELENIUM</type>
  <seleniumScript>
  <![CDATA[seleniumScript]]></seleniumScript>
  <name>
  <![CDATA[data]]></name>
  <data>
  <![CDATA[
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
xml:lang="en" lang="en">
  <head>
    <meta http-equiv="Content-Type"
content="text/html; charset=UTF-8" />
    <link rel="selenium.base" href="https://10.113.195.231/" />
    <title>AuthScript</title>
  </head>
  <body>
    <table cellpadding="1" cellspacing="1" border="1">
      <thead>
        <tr>
          <td rowspan="1" colspan="3">AuthScript</td>
        </tr>
        <tr>
          <td open>@@webappURL@@</td>
          <td></td>
        </tr>
        <tr>
          <td click>name=username</td>
          <td></td>
        </tr>
        <tr>
          <td type>name=username</td>
          <td>*****</td>
        </tr>
      </thead>
      <tbody>
      </tbody>
    </table>
  </body>
</html>]]></data>
</seleniumScript>
</formRecord>
<tr>
<td type</td>
<td name=password</td>
<td>*****</td>
</tr>
<tr>
<td>click</td>
<td name=Login</td>
<td></td>
</tr>
Sample - Password is visible

Let us fetch authentication record details with the password fields visible when sub user has disabled "View Password in Authentication Record" and "View/download Selenium Script sensitive contents" permissions.

**API request**

curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/webappauthrecord/761534"

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webappauthrecord.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebAppAuthRecord>
      <WebAppAuthServerRecordField>
        <id>730022</id>
        <type>DIGEST</type>
        <domain><![CDATA[comp2]]></domain>
        <username><![CDATA[abc2]]></username>
        <password><![CDATA[*****]]></password>
      </WebAppAuthServerRecordField>
      ...<updatedBy/>
    </WebAppAuthRecord>
  </data>
</ServiceResponse>
```
<id>762380</id>
<name><![CDATA[Selenium with server authentication]]></name>
<owner>
  <id>75913465</id>
  <username>quays_js2</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Smith]]></lastName>
</owner>
<formRecord>
  <type>SELENIUM</type>
  <seleniumScript>
    <name><![CDATA[seleniumScript]]></name>
    <data>
      <![CDATA[
      <html xmlns="http://www.w3.org/1999/xhtml"
xml:lang="en" lang="en">
    <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
      <link rel="selenium.base" href="https://10.113.195.231/" />
    </head>
    <body>
      <table cellpadding="1" cellspacing="1" border="1">
        <thead>
          <tr>
            <td rowspan="1" colspan="3" AuthScript</td>
          </tr>
        </thead>
        <tbody>
          <tr>
            <td rowspan="1" colspan="3" AuthScript</td>
          </tr>
        </tbody>
      </table>
    </body>
  </html>]]>
    </data>
  </seleniumScript>
</formRecord>
Qualys Web Application Scanning API

Authentication

```html
<td>open</td>
<td>@webappURL@</td>
<td></td>
</tr>
<tr>
<td>click</td>
<td>name=username</td>
<td></td>
</tr>
<tr>
<td>type</td>
<td>name=username</td>
<td>theuser</td>
</tr>
<tr>
<td>type</td>
<td>name=password</td>
<td>thepass</td>
</tr>
<tr>
<td>click</td>
<td>name=Login</td>
<td></td>
</tr>
</tbody>
</table>
</data>
</regex>
</seleniumScript>
</formRecord>
<serverRecord>
<fields>
<count>3</count>
</list>
<WebAppAuthServerRecordField>
<id>731073</id>
?type>NTLM</type>
<username>
<![CDATA[abc3]]>
</username>
<password>
<![CDATA[1234]]>
```
<platform_API_server>/qps/xsd/3.0/was/webappauthrecord.xsd
Create Authentication Record

/qps/rest/3.0/create/was/webappauthrecord

[POST]

Creates a new authentication record.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and Asset Management Permission “Create Authentication Record”. The output includes authentication records in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. Click here for descriptions of <WebApp> elements

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>(text) Authentication record name.</td>
</tr>
<tr>
<td>WebAuthRecord</td>
<td>(text) Details associated with the web application authentication record.</td>
</tr>
<tr>
<td>tags</td>
<td>(text) Tag associated with the authentication record.</td>
</tr>
<tr>
<td>comments</td>
<td>(text) User-defined comments.</td>
</tr>
</tbody>
</table>

Sample - Create a standard authentication record
Let us create a new web application called “My Web Application” that has the starting URL “http://mywebapp.com”. The default web application settings are assigned automatically.

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/webappauthrecord" < file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <WebAppAuthRecord>
      <name><![CDATA[STANDARD auth]]></name>
      <formRecord>
        <type>STANDARD</type>
        <sslOnly>true</sslOnly>
        <fields>
          <set>
            <WebAppAuthFormRecordField>
              <name>username</name>
              <value>john</value>
            </WebAppAuthFormRecordField>
            <WebAppAuthFormRecordField>
              <name>password</name>
              <value>secret</value>
            </WebAppAuthFormRecordField>
          </set>
        </fields>
      </formRecord>
      <tags>
        <set>
          <Tag>
            <id>152743</id>
          </Tag>
        </set>
      </tags>
      <comments>
        <set>
          <Comment><contents><![CDATA[some comments]]></contents></Comment>
        </set>
      </comments>
    </WebAppAuthRecord>
  </data>
</ServiceRequest>
```
XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webappauthrecord.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WebAppAuthRecord>
            <id>80149</id>
            <name><![CDATA[STANDARD auth]]></name>
            <owner>
                <id>45941</id>
                <username>username</username>
                <firstName><![CDATA[John]]></firstName>
                <lastName><![CDATA[Smith]]></lastName>
            </owner>
            <formRecord>
                <type>STANDARD</type>
                <sslOnly>true</sslOnly>
                <fields>
                    <count>2</count>
                    <list>
                        <WebAppAuthFormRecordField>
                            <id>835050</id>
                            <name><![CDATA[username]]></name>
                            <value><![CDATA[john]]></value>
                        </WebAppAuthFormRecordField>
                        <WebAppAuthFormRecordField>
                            <id>835051</id>
                            <name><![CDATA[username]]></name>
                            <value><![CDATA[jim]]></value>
                        </WebAppAuthFormRecordField>
                    </list>
                </fields>
            </formRecord>
            <tags>
                <count>1</count>
            </tags>
        </WebAppAuthRecord>
    </data>
</ServiceResponse>
```
Sample - Create a custom authentication record

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/webappauthrecord/
" < file.xml

Note: “file.xml” contains the request POST data.
Request POST data


<ServiceRequest>
  <data>
    <WebAppAuthRecord>
      <name><![CDATA[CUSTOM auth]]></name>
      <formRecord>
        <type>CUSTOM</type>
        <sslOnly>true</sslOnly>
        <fields>
          <set>
            <WebAppAuthFormRecordField>
              <name>some username</name>
              <value>Login</value>
              <secured>false</secured>
            </WebAppAuthFormRecordField>
            <WebAppAuthFormRecordField>
              <name>some password with true</name>
              <value>real password</value>
              <secured>true</secured>
            </WebAppAuthFormRecordField>
            <WebAppAuthFormRecordField>
              <name>not password with false</name>
              <value>fake password</value>
              <secured>false</secured>
            </WebAppAuthFormRecordField>
          </set>
        </fields>
      </formRecord>
      <comments>
        <set>
          <Comment><contents><![CDATA[some comments]]></contents></Comment>
        </set>
      </comments>
    </WebAppAuthRecord>
  </data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webappauthrecord.xsd">
  <responseCode>SUCCESS</responseCode>
</ServiceResponse>
<count>1</count>
<data>
  <WebAppAuthRecord>
    <id>685133</id>
    <name>![CDATA[CUSTOM auth]]</name>
    <owner>
      <id>75913465</id>
      <username>username</username>
      <firstName> <![CDATA[John]]></firstName>
      <lastName> <![CDATA[Smith]]></lastName>
    </owner>
    <formRecord>
      <type>CUSTOM</type>
      <sslOnly>true</sslOnly>
      <fields>
        <count>3</count>
        <list>
          <WebAppAuthFormRecordField>
            <id>692981</id>
            <name>![CDATA[not password with false]]</name>
            <secured>false</secured>
            <value> <![CDATA[fake password]]</value>
          </WebAppAuthFormRecordField>
          <WebAppAuthFormRecordField>
            <id>692982</id>
            <name>![CDATA[some password with true]]</name>
            <secured>true</secured>
            <value> <![CDATA[****]]</value>
          </WebAppAuthFormRecordField>
          <WebAppAuthFormRecordField>
            <id>692983</id>
            <name>![CDATA[some username]]</name>
            <secured>false</secured>
            <value> <![CDATA[Login]]</value>
          </WebAppAuthFormRecordField>
        </list>
      </fields>
    </formRecord>
    <tags>
      <count>0</count>
    </tags>
    <comments>
      <count>1</count>
    </comments>
  </WebAppAuthRecord>
</data>
Sample - Create a Selenium script

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/webappauthrecord"
< file.xml
```

Note: “file.xml” contains the request POST data.
**Request POST data**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <WebAppAuthRecord>
      <name><![CDATA[From API - Selenium]]></name>
      <formRecord>
        <type>SELENIUM</type>
        <seleniumScript>
          <name><![CDATA[seleniumScriptOK]]></name>
          <data><![CDATA[<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
            <head profile="http://selenium-ide.openqa.org/profiles/test-case">
              <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
              <link rel="selenium.base" href="https://community.qualys.com/" />
              <title>seleniumScriptOK</title>
            </head>
            <body>
              <table cellpadding="1" cellspacing="1" border="1">
                <thead>
                  <tr><td rowspan="1" colspan="3">seleniumScriptOK</td></tr>
                </thead>
                <tbody>
                  <tr><td>open</td>
                    <td>https://community.qualys.com/index.jspa</td>
                    <td></td>
                  </tr>
                  <tr><td>clickAndWait</td>
                    <td>css=#qc-homepage-cafe > span.qc-homepage-header-item-title</td>
                    <td></td>
                  </tr>
                  <tr><td>clickAndWait</td>
                    <td>link=Introduction to Qualys Mapping</td>
                    <td></td>
                  </tr>
                </tbody>
              </table>
            </body>
          </data>
        </seleniumScript>
      </formRecord>
    </WebAppAuthRecord>
  </data>
</ServiceRequest>
```
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webappauthrecord.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebAppAuthRecord>
      <id>307757</id>
      <name><![CDATA[From API - Selenium]]></name>
      <owner>
        <id>4354</id>
        <username>user_alice</username>
        <firstName><![CDATA[Alice]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
      </owner>
      <formRecord>
        <type>SELENIUM</type>
        <seleniumScript>
          <name><![CDATA[seleniumScriptOK]]></name>
          <data><![CDATA[
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
  <head profile="http://selenium-ide.openqa.org/profiles/test-case">
]]>]]></data>
        </seleniumScript>
      </formRecord>
    </WebAppAuthRecord>
  </data>
</ServiceResponse>
Qualys Web Application Scanning API

Authentication

```html
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<link rel="selenium.base" href="https://community.qualys.com/" />
<title>seleniumScriptOK</title>
<body>
<table cellpadding="1" cellspacing="1" border="1">
<thead>
<tr>
<td rowspan="1" colspan="3">seleniumScriptOK</td>
</tr>
</thead>
<tbody>
<tr>
<td>open</td>
<td>https://community.qualys.com/index.jspa</td>
<td></td>
</tr>
<tr>
<td>clickAndWait</td>
<td>css=#qc-homepage-cafe > span.qc-homepage-header-item-title</td>
<td></td>
</tr>
<tr>
<td>clickAndWait</td>
<td>link=Introduction to Qualys Mapping</td>
<td></td>
</tr>
</tbody>
</table>
</body></html>
```
Sample - Create server authentication

**API request**
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/webappauthrecord" < file.xml
Note: “file.xml” contains the request POST data.

**Request POST data**
<pre><code>&lt;ServiceRequest&gt;
 &lt;data&gt;
 &lt;WebAppAuthRecord&gt;
 &lt;/data&gt;
&lt;/ServiceResponse&gt;</code></pre>
<name><![CDATA[server auth]]></name>
<serverRecord>
  <sslOnly>true</sslOnly>
  <certificate>
    <name><![CDATA[My Certificate]]></name>
    <contents><![CDATA[-----BEGIN CERTIFICATE-----
    MIIC4jCCAkugAwIBAgIJKAPU+Kw6GX2aMMA0GCSqGSIb3DQEBBQUAMIGJMQswCQYD
    VQQGEwJGUjEPMA0GA1UECAwGRnJhbmNlMREwDwYDVQQHDCAhUb3Vsb3VzZTEfMAsG
    A1UECgwGUXVhbH1zMRUwEwYDVQQDLDAxRdWFseXMgVGVjaC4xDTAlBgNVBAMMBE5p
    Y28xH2BkaG5qZmliG9w0BCQEWEG5iaXp1QHF1YWx5cy5jb20wHhcNMTExMDA1MjIx
    ...-----END CERTIFICATE-----
    -----BEGIN RSA PRIVATE KEY-----
    MIICXgIBAAKBgQCTWwQUtqB67MxTP1PqAQh7VyH1dBS037eafdpd8B6
    apHh1q0Jw0zr2RzcWniUUh7iw7LP4QaG70/RzkIKSu4h9akHqA5b0Pe0ZasrE7B
    MxUzW7f9drY+3XQmdaPcld14w4z2zR+PabXYd5Mg90KEUK53AONCHk7acwIDAQAB
    AoGAMHwAFLFdgLzWXNMPZ6uGv4TaaJkzT2YEzKLIyY7e//Dt160GwDSpH3Lqffh
    ...-----END RSA PRIVATE KEY-----]]></contents>
    <passphrase>My Certificate</passphrase>
  </certificate>
</serverRecord>
<comments>
  <set>
    <Comment><contents><![CDATA[some comments]]></contents></Comment>
  </set>
</comments>
</WebAppAuthRecord>
</data>
</ServiceRequest>
<name>
    <owner>
        <id>75913465</id>
        <username>user_john</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
    </owner>
</name>

<serverRecord>
    <sslOnly>true</sslOnly>
    <certificate>
        <name><![CDATA[My Certificate]]></name>
        <contents><![CDATA[-----BEGIN CERTIFICATE----- MIIC4jCCAkugAwIBAgIJAkJjEPMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQDfH0L+ pU2oF1aYmPlNpZ0wADzBq0jBwboUJz472P+e+eC4XjsS3hJ+uiU6+ZgWZSp7Y4H+ XcWpvLgIvD05tC8+4T8v1Ghj8M00s4P3c4JkG9f2h0+2zU+Z6WzYdZlUf5oDh+ NQ==
-----END CERTIFICATE-----]]></contents>
    <fields>
        <count>0</count>
    </fields>
</serverRecord>

<tags>
    <count>0</count>
</tags>
<tags>
<comments>
<count>1</count>
<list>
<Comment>
<contents>
<![CDATA[some comments]]>
</contents>
<createdDate>2018-11-21T09:41:59Z</createdDate>
</Comment>
</list>
</comments>
<createdDate>2018-11-21T09:41:59Z</createdDate>
<createdBy>
{id>75913465</id>
<username>user_john</username>
<firstName>
<![CDATA[John]]>
</firstName>
<lastName>
<![CDATA[Smith]]>
</lastName>
</createdBy>
<updatedDate>2018-11-21T09:41:59Z</updatedDate>
<updatedBy>
{id>75913465</id>
<username>username</username>
<firstName>
<![CDATA[John]]>
</firstName>
<lastName>
<![CDATA[Smith]]>
</lastName>
</updatedBy>
</WebAppAuthRecord>
</data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/webappauthrecord.xsd
Update Authentication Record

/qps/rest/3.0/update/was/webappauthrecord/<id>

[POST]

Update an authentication record which is in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes authentication records in the user’s scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies an authentication record.

Click here for available operators

Sample - Update authentication record settings

Let us update the settings for authentication record ID 82605.

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/update/was/webappauthrecord/82605" < file.xml
```

Note: “file.xml” contains the request POST data.

Request POST data

```
<ServiceRequest>
  <data>
    <WebAppAuthRecord>
      <name><![CDATA[Form and Server Auth]]></name>
      <serverRecord>
        <sslOnly>true</sslOnly>
        <fields>
          <set>
```
<WebAppAuthServerRecordField>
   <type>DIGEST</type>
   <domain>realm</domain>
   <username><![CDATA[username]]></username>
   <password>password</password>
</WebAppAuthServerRecordField>

<formRecord>
   <type>STANDARD</type>
   <sslOnly>true</sslOnly>
   <fields>
     <set>
       <WebAppAuthFormRecordField>
         <name>username</name>
         <value>Login</value>
       </WebAppAuthFormRecordField>
     </set>
   </fields>
</formRecord>
</WebAppAuthRecord>
</data>
</ServiceResponse>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webappauthrecord.xsd">  
   <responseCode>SUCCESS</responseCode>
   <count>1</count>
   <data>
      <WebAppAuthRecord>
         <id>82605</id>
      </WebAppAuthRecord>
   </data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/webappauthrecord.xsd
Delete Authentication Record

/qps/rest/3.0/delete/was/webappauthrecord/<id>

/qps/rest/3.0/delete/was/webappauthrecord/<filters>

[POST]

Delete an authentication record which is in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The authentication record to be deleted must be within the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. Click here for descriptions of <WebApp> elements

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) Authentication record ID.</td>
</tr>
<tr>
<td>name</td>
<td>(text) Authentication record name.</td>
</tr>
<tr>
<td>tags</td>
<td>(integer) Tag associated with the authentication record.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to the authentication record.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) Tag ID assigned to the authentication record.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the authentication record was</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API

Authentication

created in WAS, in UTC date/time format.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>updatedDate</td>
<td>(date) The date when the authentication record was updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>lastScan.date</td>
<td>(date) The date when the web application (associated with the authentication record) was last scanned, in UTC date/time format.</td>
</tr>
<tr>
<td>lastScan.authStatus</td>
<td>(keyword) Authentication status reported by the last web application scan: NONE, NOT_USED, SUCCESSFUL, FAILED or PARTIAL</td>
</tr>
<tr>
<td>isUsed</td>
<td>(boolean) Indicates whether used by a web application or scan.</td>
</tr>
<tr>
<td>contents</td>
<td>(keyword) : FORM_STANDARD, FORM_CUSTOM, FORM_SELENIUM, SERVER_BASIC, SERVER_DIGEST</td>
</tr>
</tbody>
</table>

Sample - Delete a single authentication record

Let us delete authentication record ID 78149.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" "https://qualysapi.qualys.com/qps/rest/3.0/delete/was/webappauthrecord/78149"

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webappauthrecord.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebAppAuthRecord>
      <id>78149</id>
    </WebAppAuthRecord>
  </data>
</ServiceResponse>
```
Sample - Delete multiple authentication records

Let us delete authentication records that have a name containing the term “server”.

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @"https://qualysapi.qualys.com/qps/rest/3.0/delete/was/webappauthrecord/" < file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">server</Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/webappauthrecord.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>2</count>
  <data>
    <WebAppAuthRecord>
      <id>12874</id>
    </WebAppAuthRecord>
    <WebAppAuthRecord>
      <id>13093</id>
    </WebAppAuthRecord>
  </data>
</ServiceResponse>
```

**XSD**

```
<platform API server>/qps/xsd/3.0/was/webappauthrecord.xsd
```
Reference: Authentication

The `<WebAppAuthRecord>` element includes sub elements used to define authentication record. A reference of these elements is provided below. An asterisk * indicates a complex element.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) Authentication record ID.</td>
</tr>
<tr>
<td>name</td>
<td>(text) Authentication record name.</td>
</tr>
<tr>
<td>tags</td>
<td>(integer) Tag associated with the authentication record.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to the authentication record.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) Tag ID assigned to the authentication record.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the authentication record was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date when the authentication record was updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>lastScan.date</td>
<td>(date) The date when the web application (associated with the authentication record) was last scanned, in UTC date/time format.</td>
</tr>
<tr>
<td>lastScan.authStatus</td>
<td>(keyword) Authentication status reported by the last web application scan: NONE, NOT_USED, SUCCESSFUL, FAILED or PARTIAL</td>
</tr>
<tr>
<td>isUsed</td>
<td>(boolean) Indicates whether used by a web application or scan.</td>
</tr>
<tr>
<td>contents</td>
<td>(Keyword: FORM_STANDARD, FORM_CUSTOM,</td>
</tr>
<tr>
<td>WebAuthRecord</td>
<td>(text) Details associated with the web application authentication record.</td>
</tr>
<tr>
<td>----------------</td>
<td>----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>comments</td>
<td>(text) User-defined comments.</td>
</tr>
</tbody>
</table>
Scans

Scan Count

/qps/rest/3.0/count/was/wasscan

[GET] [POST]

Returns the total number of scans in the user’s account. Input elements are optional and are used to filter the number of scans included in the count.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The count includes scans in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

[Click here for available operators]

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The scan ID.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The scan name.</td>
</tr>
<tr>
<td>webApp.name</td>
<td>(text) The name of the web application being scanned.</td>
</tr>
<tr>
<td>webApp.id</td>
<td>(integer) The ID of the web application being scanned.</td>
</tr>
<tr>
<td>webApp.tags</td>
<td>(integer) The tags associated with the web application being scanned.</td>
</tr>
<tr>
<td></td>
<td>(with operator=&quot;NONE&quot;)</td>
</tr>
<tr>
<td>webApp.tags.id</td>
<td>(integer) The tag ID assigned to web application being scanned.</td>
</tr>
</tbody>
</table>
### Qualys Web Application Scanning API

#### Scans

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>reference</td>
<td>(text) Scan Reference ID.</td>
</tr>
<tr>
<td>launchedDate</td>
<td>(date) The date and time when the scan was launched in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) The scan type: VULNERABILITY or DISCOVERY.</td>
</tr>
<tr>
<td>mode</td>
<td>(keyword) The mode of the scan: ONDEMAND, SCHEDULED or API.</td>
</tr>
<tr>
<td>status</td>
<td>(keyword) The status of the scan: SUBMITTED, RUNNING, FINISHED, TIME_LIMIT_EXCEEDED, SCAN_NOT_LAUNCHED, SCANNER_NOT_AVAILABLE, ERROR or CANCELED.</td>
</tr>
<tr>
<td>authStatus</td>
<td>(Keyword) Indicates the status of the authentication record: NONE, NOT_USED, SUCCESSFUL, FAILED or PARTIAL.</td>
</tr>
<tr>
<td>resultsStatus</td>
<td>(keyword) The status of the scan: NOT_USED, NO_HOST_ALIVE, NO_WEB_SERVICE, PROCESSING, SCAN_RESULTS_INVALID, TIME_LIMIT_REACHED, SERVICE_ERROR, SCAN_INTERNAL_ERROR, SUCCESSFUL, TO_BE_PROCESSED, TIME_LIMIT_EXCEEDED, SCAN_NOT_LAUNCHED, SCANNER_NOT_AVAILABLE, SUBMITTED, RUNNING, FINISHED, CANCELED, CANCELING ERROR, DELETED.</td>
</tr>
</tbody>
</table>

### Sample - Get count of scans in user’s account

Return a count of all scans in the user’s account.

**API request**

```
curl -u "USERNAME:PASSWORD" 
"https://qualysapi.qualys.com/qps/rest/3.0/count/was/wasscan"
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
</ServiceResponse>
```
Sample - Get count of scans with certain criteria

Return a count of scans that match all the criteria defined in the request POST data: 1) scan name contains the word “Schedule”, 2) scan type is “VULNERABILITY”, 3) the scanned web application contains the word “Merchant”, and 4) the scan status is equal to “FINISHED”.

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/count/was/wasscan" <
file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">Schedule</Criteria>
    <Criteria field="type" operator="EQUALS">VULNERABILITY</Criteria>
    <Criteria field="webApp.name" operator="CONTAINS">Merchant</Criteria>
    <Criteria field="status" operator="EQUALS">FINISHED</Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
</ServiceResponse>
```

Sample - Get the count of scans of web applications without tags

Return a count of scans of web applications that do not have any tags assigned.
Scans

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/count/was/wasscan" < file.xml

Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
  <filters>
    <Criteria field="webApp.tags" operator="NONE"></Criteria>
  </filters>
</ServiceRequest>
```

XML response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
</ServiceResponse>
```

Sample - Get the count of scans of web applications with few tags

Return a count of scans of web applications that have certain tags assigned.

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/count/was/wasscan" < file.xml

Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
  <filters>
    <Criteria field="webApp.tags.id" operator="EQUALS">1516928</Criteria>
  </filters>
</ServiceRequest>
<Criteria field="webApp.tags.id" operator="EQUALS">1234567</Criteria>
</ServiceRequest>

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>15</count>
</ServiceResponse>
```

**XSD**

`<platform_API_server>/qps/xsd/3.0/was/wasscan.xsd`
Search Scans

/qps/rest/3.0/search/was/wasscan

[POST]

Returns a list of scans on web applications which are in the user's scope

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes scans in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. Click here for descriptions of <WebApp> elements

The special field=attributes attribute for the Criteria element is used to search custom attributes (see sample below).

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The scan ID.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The scan name.</td>
</tr>
<tr>
<td>webApp.name</td>
<td>(text) The name of the web application being scanned.</td>
</tr>
<tr>
<td>webApp.id</td>
<td>(integer) The ID of the web application being scanned.</td>
</tr>
<tr>
<td>webApp.tags</td>
<td>(integer) The tags associated with the web application being scanned.</td>
</tr>
<tr>
<td>webApp.tags.id</td>
<td>(integer) The tag ID assigned to web application being scanned.</td>
</tr>
<tr>
<td>reference</td>
<td>(text) Scan Reference ID.</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>launchedDate</td>
<td>(date) The date and time when the scan was launched in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) The scan type: VULNERABILITY or DISCOVERY.</td>
</tr>
<tr>
<td>mode</td>
<td>(keyword) The mode of the scan: ONDEMAND, SCHEDULED or API.</td>
</tr>
<tr>
<td>status</td>
<td>(keyword) The status of the scan: SUBMITTED, RUNNING, FINISHED, TIME_LIMIT_EXCEEDED, SCAN_NOT_LAUNCHED, SCANNER_NOT_AVAILABLE, ERROR or CANCELED.</td>
</tr>
<tr>
<td>authStatus</td>
<td>(keyword) Indicates the status of the authentication record: NONE, NOT_USED, SUCCESSFUL, FAILED or PARTIAL.</td>
</tr>
<tr>
<td>resultsStatus</td>
<td>(keyword) The status of the scan: NOT_USED, NO_HOST_ALIVE, NO_WEB_SERVICE, PROCESSING, SCAN_RESULTS_INVALID, TIME_LIMIT_REACHED, SERVICE_ERROR, SCAN_INTERNAL_ERROR, SUCCESSFUL, TO_BE_PROCESSED, TIME_LIMIT_EXCEEDED, SCAN_NOT_LAUNCHED, SCANNER_NOT_AVAILABLE, SUBMITTED, RUNNING, FINISHED, CANCELED, CANCELING ERROR, DELETED.</td>
</tr>
</tbody>
</table>

Sample - List running scans

Let us view a list of all running scans in the user’s account.

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/search/was/wasscan" < file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <filters>
```

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Qualys Web Application Scanning API

Scans

<Criteria field="status" operator="EQUALS">RUNNING</Criteria>
</filters>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.cm/qps/xsd/3.0/was/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>2</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <WasScan>
      <id>13101</id>
      <name><![CDATA[Vulnerability Scan - 2017-02-24]]></name>
      <reference>was/1298538355659.20994</reference>
      <type>VULNERABILITY</type>
      <mode>ONDEMAND</mode>
      <profile>
        <id>1072</id>
        <name><![CDATA[Initial WAS Options]]></name>
      </profile>
      <launchedDate>2017-02-24T10:05:55Z</launchedDate>
      <launchedBy>
        <id>123056</id>
        <username>username</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
      </launchedBy>
      <status>RUNNING</status>
    </WasScan>
    <WasScan>
      <id>13102</id>
      <name><![CDATA[Vulnerability Scan - 2017-02-24]]></name>
      <reference>was/1298541157873.20995</reference>
      <type>VULNERABILITY</type>
      <mode>ONDEMAND</mode>
      <profile>
        <id>1072</id>
        <name><![CDATA[Initial WAS Options]]></name>
      </profile>
      <launchedDate>2017-02-24T10:52:37Z</launchedDate>
      <launchedBy>
        <id>123056</id>
        <username>username</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
      </launchedBy>
      <status>RUNNING</status>
    </WasScan>
  </data>
</ServiceResponse>
Sample - List scans with successful authentication

Let us view a list of scans in the user’s account that successfully authenticated to the target web application.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/search/was/wasscan" <file.xml
Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <filters>
    <Criteria field="authStatus" operator="EQUALS">SUCCESSFUL</Criteria>
  </filters>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>2</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <WasScan>
      <id>13096</id>
      <name><![CDATA[Web Vulnerability Scan - 2017-02-23]]></name>
    </WasScan>
  </data>
</ServiceResponse>
Sample - List scans for web applications without tags

Return a list of scans of web applications that do not have any tags assigned.

API request
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/search/was/wasscan" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

```xml
<ServiceRequest>
  <filters>
    <Criteria field="webApp.tags" operator="NONE"></Criteria>
  </filters>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <WasScan>
      <id>2208317</id>
      <name>
        <![CDATA[1538976557822_Scan16]]>
      </name>
      <reference>was/1538976670564.372113</reference>
      <type>VULNERABILITY</type>
      <mode>API</mode>
      <multi>false</multi>
      <target>
        <webApp>
          <id>1472824</id>
          <name>
            <![CDATA[web app 1538976530195]]>
          </name>
          <url>
            <![CDATA[http://10.11.72.39]]>
          </url>
        </webApp>
        <scannerAppliance>
          <type>INTERNAL</type>
        </scannerAppliance>
      </target>
    </WasScan>
  </data>
</ServiceResponse>
```
Sample - List scans for web applications with tags

Return a list of scans of web applications that have certain tags assigned.

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-"https://qualysapi.qualys.com/qps/rest/3.0/search/was/wasscan" < file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <friendlyName>
    <![CDATA[John_doe]]>
  </friendlyName>
</ServiceRequest>
```
<filters>
    <Criteria field="webApp.tags.id" operator="EQUALS">8158322</Criteria>
</filters>
</ServiceRequest>

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/wasscan.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <WasScan>
            <id>2208317</id>
            <name><![CDATA[1538976557822_Scan16]]></name>
            <reference>was/1538976670564.372113</reference>
            <type>VULNERABILITY</type>
            <mode>API</mode>
            <multi>false</multi>
            <target>
                <webApp>
                    <id>1472824</id>
                    <name><![CDATA[web app 1538976530195]]></name>
                    <url><![CDATA[http://10.11.72.39]]></url>
                </webApp>
                <scannerAppliance>
                    <type>INTERNAL</type>
                    <friendlyName><![CDATA[John_doe]]></friendlyName>
                </scannerAppliance>
                <cancelOption>SPECIFIC</cancelOption>
                <randomizeScan>false</randomizeScan>
            </target>
            <profile>
                <id>458470</id>
            </profile>
        </WasScan>
    </data>
</ServiceResponse>
```
Sample - List canceled scan

Let us search for the scan with response showing user who canceled the scan.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @"https://qualysapi.qualys.com/qps/rest/3.0/search/was/wasscan < file.xml
Note: “file.xml” contains the request POST data.

**Request POST data**

<ServiceRequest>
XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/scan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <WasScan>
      <id>1447989</id>
      <name><![CDATA[My Vulnerability Scan]]></name>
      <reference>was/1446408743390.1856849</reference>
      <type>VULNERABILITY</type>
      <mode>ONDEMAND</mode>
      <multi>false</multi>
      <target>
        <webApp>
          <id>2431279</id>
          <name><![CDATA[127.0.0.1]]></name>
          <url><![CDATA[http://127.0.0.1/]]></url>
        </webApp>
        <scannerAppliance>
          <type>EXTERNAL</type>
        </scannerAppliance>
        <cancelOption>SPECIFIC</cancelOption>
      </target>
      <profile>
        <id>28147</id>
        <name><![CDATA[My Option Profile]]></name>
      </profile>
    </WasScan>
  </data>
</ServiceResponse>
```
<launchDate>2017-11-01T20:12:23Z</launchDate>
<launchedBy>
  <id>2226741</id>
  <username>user_ax1</username>
  <firstName>
    <![CDATA[Amy]]>
  </firstName>
  <lastName>
    <![CDATA[Kim]]>
  </lastName>
</launchedBy>
<status>CANCELED</status>
<cancelMode>USER</cancelMode>
<CanceledBy>
  <id>9872437571</id>
  <username>user_bb5</username>
</CanceledBy>
</WasScan>
</data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/wasscan.xsd
Get Scan Details

/qps/rest/3.0/get/was/wasscan/<id>

[GET]

View details for a scan on a web application which is in the user's scope. Want to find a scan ID to use as input? See Search scans.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes authentication records in the user’s scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies the scan.

Click here for available operators

Sample - List scan details

Let us view details for the scan with the ID 1447989.

API request

```
curl -n -u "USERNAME:PASSWORD" 
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/wasscan/1447989"
```

XML response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScan>
      <id>1447989</id>
      <name>
        <![CDATA[My Vulnerability Scan]]>
      </name>
    </WasScan>
  </data>
</ServiceResponse>
```
Qualys Web Application Scanning API

Scans

<name>
<reference>was/1446408743390.1856849</reference>
<type>VULNERABILITY</type>
<mode>ONDEMAND</mode>
<progressiveScanning>false</progressiveScanning>
<multi>false</multi>
<target>
  <webApp>
    <id>2431279</id>
    <name>
<!CDATA[127.0.0.1]]>
    </name>
    <url>
<!CDATA[http://127.0.0.1/]]>
    </url>
  </webApp>
  <scannerAppliance>
    <type>EXTERNAL</type>
  </scannerAppliance>
  <cancelOption>SPECIFIC</cancelOption>
</target>
<profile>
  <id>28147</id>
  <name>
<!CDATA[My Option Profile]]>
  </name>
</profile>
<options>
  <count>15</count>
  <list>
    <WasScanOption>
      <name>My Authentication Record</name>
      <value>
<!CDATA[None]]>
    </value>
  </WasScanOption>
    <WasScanOption>
      <name>Unexpected Error Threshold</name>
      <value>
<!CDATA[48]]>
    </value>
  </WasScanOption>
    <WasScanOption>
      <name>Sensitive Content: Credit Card Numbers</name>
  </WasScanOption>
</list>
</options>
Qualys Web Application Scanning API

Scans

<value>
  <![CDATA[false]]>
</value>
</WasScanOption>
<WasScanOption>
  <name>Performance Settings</name>
  <value>
    <![CDATA[MEDIUM]]>
  </value>
</WasScanOption>
<WasScanOption>
  <name>Scanner Appliance</name>
  <value>
    <![CDATA[External]]>
  </value>
</WasScanOption>
<WasScanOption>
  <name>Detection Scope</name>
  <value>
    <![CDATA[COMPLETE]]>
  </value>
</WasScanOption>
<WasScanOption>
  <name>Crawling Form Submissions</name>
  <value>
    <![CDATA[NONE]]>
  </value>
</WasScanOption>
<WasScanOption>
  <name>Bruteforce Settings</name>
  <value>
    <![CDATA[MINIMAL]]>
  </value>
</WasScanOption>
<WasScanOption>
  <name>Option Profile Name</name>
  <value>
    <![CDATA[My Option Profile]]>
  </value>
</WasScanOption>
<WasScanOption>
  <name>Maximum Crawling Links</name>
  <value>
    <![CDATA[300]]>
  </value>
</WasScanOption>
<WasScanOption>
  <name>Timeout Error Threshold</name>
  <value><![CDATA[20]]></value>
</WasScanOption>

<WasScanOption>
  <name>Web Application Name</name>
  <value><![CDATA[127.0.0.1]]></value>
</WasScanOption>

<WasScanOption>
  <name>Request Parameter Set</name>
  <value><![CDATA[Initial Parameters]]></value>
</WasScanOption>

<WasScanOption>
  <name>Sensitive Content: Social Security Numbers (US)</name>
  <value><![CDATA[false]]></value>
</WasScanOption>

<WasScanOption>
  <name>Target URL</name>
  <value><![CDATA[http://127.0.0.1]]></value>
</WasScanOption>

</list>
</options>

<launchedDate>2017-11-01T20:12:23Z</launchedDate>

<launchedBy>
  <id>2226741</id>
  <username>user_ak1</username>
  <firstName><![CDATA[Amy]]></firstName>
  <lastName><![CDATA[Kim]]></lastName>
</launchedBy>
Sample - List scan details with DNS override settings

When a scan has DNS override settings defined, the dnsOverride element lists DNS override settings (one or more records) used for scanning.

**API request**

```
curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/wasscan/1381602"
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscan.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WasScan>
            <id>1381602</id>
            <name>
                <![CDATA[My Scan]]>
            </name>
            <reference>was/1443153045656.1850463.1</reference>
            <type>DISCOVERY</type>
            <mode>ONDEMAND</mode>
            <multi>false</multi>
            <target>
                <webApp>
                    <id>1932867</id>
                    <name>
                        <![CDATA[10.10.10.2]]>
                    </name>
                </webApp>
            </target>
        </WasScan>
    </data>
</ServiceResponse>
```
Qualys Web Application Scanning API

Scans

Sample - Get details of a progressive scan

The progressiveScanning element will be included in the call response, if Progressive Scanning is enabled for the subscription. For all scans launched before this feature was enabled, the value “false” will be returned.

API request

curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/wasscan/31397"

XML response

<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScan>
      <id>31397</id>
      <name>
        <![CDATA[Relaunch Relaunch Web Application Vulnerability Scan - 2018-08-13]]>
      </name>
      <reference>was/1413891468597.1792880</reference>
      <type> VULNERABILITY</type>
      <mode>ONDEMAND</mode>
      <progressiveScanning>true</progressiveScanning>
      ...
    </WasScan>
  </data>
</ServiceResponse>
Qualys Web Application Scanning API

Scans

XSD

<platform API server>/qps/xsd/3.0/was/wasscan.xsd
Launch Scans (Single)

/qps/rest/3.0/launch/was/wasscan/

[POST]

We’ve enhanced the ability to support large web application scanning programs by adding the ability to scan any number of web applications as a Multi-Scan through API. This feature enables you to scan hundreds or even thousands of web applications you may have in your organization with granular insight into what scans are running and which ones are complete.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and ”Launch WAS Scan”. The output includes scan targets in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. The special field=attributes attribute for the Criteria element is used to search custom attributes (see sample below).

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>(text) The scan name.</td>
</tr>
<tr>
<td>webApps.id or</td>
<td>(integer) The web applications to be scanned.</td>
</tr>
<tr>
<td>tags.id</td>
<td>webApps.id: Specify the web application ID to include it in the scan.</td>
</tr>
<tr>
<td></td>
<td>tags.id: Specify the tag ID associated with the web applications to be</td>
</tr>
</tbody>
</table>
### Scans

**type**  
(keyword) The scan type: VULNERABILITY or DISCOVERY.

**profile.id**  
(integer) The name of the option profile that includes scan settings. The service provides the profile “Initial WAS Options” and we recommend this to get started.

Example:
<pre><code>&lt;profile&gt;  
   &lt;name&gt;Initial WAS Options&lt;/name&gt;  
&lt;/profile&gt;</code></pre>

**target.scannerAppliance.type**  
(keyword) The type of scanner appliance used for the scan: EXTERNAL or INTERNAL or scannerTags.

**target.scannerAppliance.friendlyName**  
(text) Name of the scanner appliance used for the scan.

**target.scannerTags.set.Tag.id**  
(integer) The scanner associated with the tag (identified by the specified tag ID) is picked for the scan.

**target.webAppAuthRecord.id or target.webAppAuthRecord.isDefault**  
Decides the authentication record to be used for the scan.

- **target.webAppAuthRecord.id**  
  (integer): Specify the web application's authentication record ID to use the specific authentication record.

- **target.webAppAuthRecord.isDefault**  
  (boolean): Set to true to use the default web application's
proxy.id (integer) The proxy for scanning the target web application.

Example:
<pre>&lt;proxy&gt;
  &lt;id&gt;12345&lt;/id&gt;
&lt;/proxy&gt;</pre>

dnsOverride.id (integer) The DNS override record for scanning the target web application.

Example:
<pre>&lt;dnsOverride&gt;
  &lt;id&gt;67890&lt;/id&gt;
&lt;/dnsOverride&gt;</pre>

sendMail (boolean) Set to false to disable scan complete email notifications.

Example:
<pre>&lt;sendMail&gt;false&lt;/sendMail&gt;</pre>

1. The element target must have at least tags or web applications specified

2. The element profile (Text) is required unless the target has a default option profile.

Sample - Launch a new scan - basic elements

Launch a new discovery scan on the web application ID 323126 using the option profile ID 1021.

API request

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
  "https://qualysapi.qualys.com/qps/rest/3.0/launch/was/wasscan" < file.xml
```

Note: “file.xml” contains the request POST data.

Request POST data
<ServiceRequest>
  <data>
    <WasScan>
      <name>New WAS Discovery Scan launched from API</name>
      <type>DISCOVERY</type>
      <target>
        <webApp>
          <id>323126</id>
        </webApp>
        <webAppAuthRecord>
          <isDefault>true</isDefault>
        </webAppAuthRecord>
        <scannerAppliance>
          <type>EXTERNAL</type>
        </scannerAppliance>
      </target>
      <profile>
        <id>1021</id>
      </profile>
    </WasScan>
  </data>
</ServiceRequest>

**XML response**

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScan>
      <id>16954</id>
    </WasScan>
  </data>
</ServiceResponse>

**Sample - Launch a new scan - use proxy**

Launch a new vulnerability scan using proxy ID 12345.

**API request**
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/launch/was/wasscan" <
file.xml
Note: “file.xml” contains the request POST data.

Request POST data

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <WasScan>
      <name>New WAS Vulnerability Scan launched from API</name>
      <type>VULNERABILITY</type>
      <target>
        <webApp>
          <id>323126</id>
        </webApp>
        <scannerAppliance>
          <type>INTERNAL</type>
          <friendlyName>dp_scanner</friendlyName>
        </scannerAppliance>
        <proxy>
          <id>12345</id>
        </proxy>
      </target>
      <profile>
        <id>1021</id>
      </profile>
    </WasScan>
  </data>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScan>
      <id>16954</id>
    </WasScan>
  </data>
</ServiceResponse>
```
Sample - Launch a new scan - assign multiple scanner appliances

Let us launch a new discovery scan on the web application ID 522066 and assign the pool of scanners using asset tag.

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/launch/was/wasscan" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
  <data>
    <WasScan>
      <name><![CDATA[Scan With Pool of Internal Scanners]]></name>
      <type>DISCOVERY</type>
      <target>
        <webApp>
          <id>522066</id>
        </webApp>
        <scannerTags>
          <set>
            <Tag>
              <id>15415353311147</id>
            </Tag>
          </set>
        </scannerTags>
      </target>
    </WasScan>
  </data>
</ServiceRequest>
```

XML response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/scan.xsd">
</ServiceResponse>
```
<responseCode>SUCCESS</responseCode>
<count>1</count>
<data>
  <WasScan>
    <id>1731352</id>
    <name>Scan With Pool of Internal Scanners</name>
    <reference>was/1484222839357.1955345</reference>
    <type>DISCOVERY</type>
    <mode>ONDEMAND</mode>
    <progressiveScanning>true</progressiveScanning>
    <multi>true</multi>
    <target>
      <webApps>
        <list>
          <WebApp>
            <id>522066</id>
            <name>My Web Application</name>
            <url>http://mywebapp.com</url>
          </WebApp>
        </list>
      </webApps>
      <scannerTags>
        <set>
          <Tag>
            <id>8461819</id>
            <name>TagForScanner</name>
          </Tag>
        </set>
      </scannerTags>
      <cancelOption>DEFAULT</cancelOption>
    </target>
    <profile>
      <id>194283</id>
      <name>Initial WAS Options</name>
    </profile>
    <options>
      <count>14</count>
      <list>
        <WasScanOption>
          <name>Web Application Authentication Record Name</name>
          <value>None</value>
        </WasScanOption>
      </list>
    </options>
  </WasScan>
</data>
<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unexpected Error Threshold</td>
<td>300</td>
</tr>
<tr>
<td>Sensitive Content: Credit Card Numbers</td>
<td>False</td>
</tr>
<tr>
<td>Performance Settings</td>
<td>LOW</td>
</tr>
<tr>
<td>Detection Scope</td>
<td>COMPLETE</td>
</tr>
<tr>
<td>Crawling Form Submissions</td>
<td>BOTH</td>
</tr>
<tr>
<td>Bruteforce Settings</td>
<td>DISABLED</td>
</tr>
<tr>
<td>Option Profile Name</td>
<td>Initial WAS Options</td>
</tr>
</tbody>
</table>

```xml
<WasScanOption>
  <name>Unexpected Error Threshold</name>
  <value><![CDATA[300]]></value>
</WasScanOption>
<WasScanOption>
  <name>Sensitive Content: Credit Card Numbers</name>
  <value><![CDATA[false]]></value>
</WasScanOption>
<WasScanOption>
  <name>Performance Settings</name>
  <value><![CDATA[LOW]]></value>
</WasScanOption>
<WasScanOption>
  <name>Detection Scope</name>
  <value><![CDATA[COMPLETE]]></value>
</WasScanOption>
<WasScanOption>
  <name>Crawling Form Submissions</name>
  <value><![CDATA[BOTH]]></value>
</WasScanOption>
<WasScanOption>
  <name>Bruteforce Settings</name>
  <value><![CDATA[DISABLED]]></value>
</WasScanOption>
<WasScanOption>
  <name>Option Profile Name</name>
  <value><![CDATA[Initial WAS Options]]></value>
</WasScanOption>
```
<name>Maximum Crawling Links</name>
<value>
  <![CDATA[300]]>
</value>
</WasScanOption>
<WasScanOption>
  <name>Timeout Error Threshold</name>
  <value>
    <![CDATA[100]]>
  </value>
</WasScanOption>
<WasScanOption>
  <name>Web Application Name</name>
  <value>
    <![CDATA[My Web Application]]>
  </value>
</WasScanOption>
<WasScanOption>
  <name>Request Parameter Set</name>
  <value>
    <![CDATA[Initial Parameters]]>
  </value>
</WasScanOption>
<WasScanOption>
  <name>Sensitive Content: Social Security Numbers (US)</name>
  <value>
    <![CDATA[false]]>
  </value>
</WasScanOption>
<WasScanOption>
  <name>Target URL</name>
  <value>
    <![CDATA[http://mywebapp.com]]>
  </value>
</WasScanOption>
</list>
</options>
<launchedDate>2017-01-12T12:07:19Z</launchedDate>
<launchedBy>
  <id>1056860</id>
  <username>user_john</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</launchedBy>
Sample - Launch a new scan - progressive scanning

The user can set the progressiveScanning option to true or false for the vulnerability scan, if Progressive Scanning is enabled for the subscription. If the option is not set for a scan, the Progressive Scanning setting for the web application is used. Note this option is not supported for a discovery scan.

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/launch/was/wasscan" < file.xml
```

Note: “file.xml” contains the request POST data.

Request POST data

```
<ServiceRequest>
  <data>
    <WasScan>
      <name>New WAS Vulnerability Scan launched from API</name>
      <type>VULNERABILITY</type>
      <target>
        <webApp>
          <id>323126</id>
        </webApp>
        <scannerAppliance>
          <type>EXTERNAL</type>
        </scannerAppliance>
      </target>
      <profile>
        <id>1021</id>
      </profile>
      <cancelAfterNHours>5</cancelAfterNHours>
      <progressiveScanning>false</progressiveScanning>
    </WasScan>
  </data>
</ServiceRequest>
```
XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WasScan>
            <id>16954</id>
        </WasScan>
    </data>
</ServiceResponse>
```

If Progressive Scanning is not enabled for the subscription, the `progressiveScanning` element cannot be provided, otherwise an error will be returned.

XML response (error)

```xml
<?xml version="1.0" encoding="UTF-8"?>
    <responseCode>INVALID_REQUEST</responseCode>
    <responseErrorDetails>
        <errorMessage>Progressive scanning is not enabled in your subscription.</errorMessage>
        <errorResolution>Please check with your account manager to enable this option.</errorResolution>
    </responseErrorDetails>
</ServiceResponse>
```

XSD

```xml
<platform_API_server>/qps/xsd/3.0/wasscan.xsd
```
Launch Scan (Multiple)

/qps/rest/3.0/launch/was/wasscan

[POST]

We’ve enhanced the ability to support large web application scanning programs by adding the ability to scan any number of web applications as a Multi-Scan through API. This feature enables you to scan hundreds or even thousands of web applications you may have in your organization with granular insight into what scans are running and which ones are complete.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and ”Launch WAS Scan”. The output includes scan targets in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. Click here for descriptions of <WebApp> elements

The special field=attributes attribute for the Criteria element is used to search custom attributes (see sample below).

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>(text) The scan name.</td>
</tr>
<tr>
<td>target.webApp.id&lt;sub&gt;1&lt;/sub&gt;</td>
<td>(integer) The ID of the web application being scanned.</td>
</tr>
<tr>
<td>target.tags.excluded.option</td>
<td>(keyword: ALL or ANY) Decides which web applications should be excluded from the scan.</td>
</tr>
<tr>
<td>ALL : Only the web applications associated</td>
<td></td>
</tr>
<tr>
<td>target.tags.excluded.tagList.Tag.id</td>
<td>(integer) The web applications associated with the tag (identified by the specified tag ID) are excluded from the scan.</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>target.tags.included.option</td>
<td>(keyword: ALL or ANY) Decides which web applications should be included in the scan.</td>
</tr>
<tr>
<td></td>
<td>ALL : Only the web applications associated with all the specified tags are included in the scan.</td>
</tr>
<tr>
<td></td>
<td>ANY : Only the web applications associated with any of the specified tags included in the scan.</td>
</tr>
<tr>
<td>target.tags.included.tagList.Tag.id</td>
<td>(integer) The web applications associated with the tag (identified by the specified tag ID) are included in the scan.</td>
</tr>
<tr>
<td>options</td>
<td>(keyword: ANY, ALL) Decides which web applications should be included or excluded from the scan.</td>
</tr>
<tr>
<td></td>
<td>ALL : Only the web applications associated with all the specified tags are excluded from the scan.</td>
</tr>
<tr>
<td></td>
<td>ANY : Only the web applications associated with any of the specified tags are excluded from the scan.</td>
</tr>
<tr>
<td>type</td>
<td>(keyword: EXTERNAL or INTERNAL or scannerTags) Type of the scanner appliance to be used for the scan.</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>profile.id2</td>
<td>(integer) (integer) The name of the option profile that includes scan settings. The service provides the profile “Initial WAS Options” and we recommend this to get started.</td>
</tr>
<tr>
<td></td>
<td>Example:</td>
</tr>
<tr>
<td></td>
<td>&lt;profile&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;name&gt;Initial WAS Options&lt;/name&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/profile&gt;</td>
</tr>
<tr>
<td>target.authRecordOption</td>
<td>(integer) Defines the authentication record to be used during the scan.</td>
</tr>
<tr>
<td></td>
<td>Set to SPECIFIC - Always use the authRecord passed while launching the scan.</td>
</tr>
<tr>
<td></td>
<td>Set to DEFAULT - Forces the use of the authRecord, if set, else fall back to the one passed in to the API while launching the scan.</td>
</tr>
<tr>
<td>target.profileOption</td>
<td>(keyword: ALL or ANY) Defines the option profile to be used during the scan.</td>
</tr>
<tr>
<td></td>
<td>Set to SPECIFIC - Always use the optionProfile passed while launching the scan.</td>
</tr>
<tr>
<td></td>
<td>Set to DEFAULT - Forces the use of the optionProfile if set, else fall back to the one passed in to the API while launching the scan.</td>
</tr>
<tr>
<td>target.scannerOption</td>
<td>(integer) Defines the scanner appliance to be used during the scan.</td>
</tr>
<tr>
<td></td>
<td>Set to SPECIFIC - Always use the scanner passed while launching the scan.</td>
</tr>
<tr>
<td></td>
<td>Set to DEFAULT - Forces the use of the scanner if set, else fall back to the one passed in to the API while launching the scan.</td>
</tr>
</tbody>
</table>
# Qualys Web Application Scanning API

## Scans

Passed in to the API while launching the scan.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
</table>
| `<cancelOption>` | Set to DEFAULT - Forces the use of the target web application’s cancelScans option if set, else fall back to the one passed in to the API while launching the scan.  
Set to SPECIFIC - Always use the cancel scan option passed while launching the scan. | `<cancelOption>`    |
| `sendMail`       | (boolean) Set to false to disable scan complete email notifications.                                     | `<sendMail>false</sendMail>` |
| `sendOneMail`    | (boolean) Set to true to send one email upon multi-scan completion. Set to false to send one email upon completion of each individual scan.  
Example: `<sendOneMail>true</sendOneMail>`  
Note: sendOneMail is valid only when sendMail = true for a multi-scan (multiple web applications being scanned). If sendMail is set to false, sendOneMail will be ignored. | `<sendOneMail>true</sendOneMail>` |

1 The element target must have at least tags or web applications specified

2 The element profile (Text) is required unless the target has a default option profile.

### Sample - Launch a new scan - basic elements

Launch a new discovery scan on the web application ID 4330527 and 4330538 using the option profile ID 1070535.

**API request**
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/launch/was/wasscan" <
file.xml
Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <data>
    <WasScan>
      <name>1497343127459_Scan7</name>
      <type>DISCOVERY</type>
      <target>
        <scannerAppliance>
          <type>EXTERNAL</type>
        </scannerAppliance>
        <webApps>
          <set>
            <WebApp>
              <id>4330527</id>
            </WebApp>
            <WebApp>
              <id>4330338</id>
            </WebApp>
          </set>
        </webApps>
        <profileOption>DEFAULT</profileOption>
      </target>
      <profile>
        <id>1070535</id>
      </profile>
    </WasScan>
  </data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>

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Sample - Launch a multi-scan using tags

Let's launch a multi-scan for all the web applications associated with the tags specified in the request filter.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/launch/was/wasscan" < file.xml

Note: “file.xml” contains the request POST data.

Request POST data

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <WasScan>
      <name>1497343127649_Scan9</name>
      <type>DISCOVERY</type>
      <target>
        <scannerAppliance>
          <type>EXTERNAL</type>
        </scannerAppliance>
        <tags>
          <included>
            <option>ALL</option>
            <tagList>
              <set>
                <Tag><id>12017424</id></Tag>
                <Tag><id>12017228</id></Tag>
              </set>
            </tagList>
          </included>
          <excluded>
            <option>ANY</option>
            <tagList>
              <set>
              </set>
            </tagList>
          </excluded>
        </tags>
      </target>
    </WasScan>
  </data>
</ServiceRequest>
```
Sample - Launch a new scan with cancel option to DEFAULT

Launch a new vulnerability scan on web app ID 2376280 and 4114251 and set the cancel scan option to DEFAULT. This forces the use of the target web app’s cancelScans option if set.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @"https://qualysapi.qualys.com/qps/rest/3.0/launch/was/wasscan" < file.xml
Note: “file.xml” contains the request POST data.
Request POST data

```xml
<ServiceRequest>
  <data>
    <WasScan>
      <name><![CDATA[sample Scan]]></name>
      <type>VULNERABILITY</type>
      <target>
        <webApps>
          <set>
            <WebApp>
              <id>2376280</id>
            </WebApp>
            <WebApp>
              <id>4114251</id>
            </WebApp>
          </set>
        </webApps>
        <scannerAppliance>
          <type>EXTERNAL</type>
        </scannerAppliance>
        <cancelOption>DEFAULT</cancelOption>
      </target>
      <profile>
        <id>2231014</id>
      </profile>
    </WasScan>
  </data>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScan>
      <id>1275177</id>
    </WasScan>
  </data>
</ServiceResponse>
```
Sample - Launch a new multi-scan

Let us launch a scan that allows to send one email on completion of multi-scan (not for each individual scan in the group).

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/launch/was/wasscan" <
file.xml
Note: “file.xml” contains the request POST data.
```

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <WasScan>
      <name><![CDATA[New Scan]]></name>
      <type>VULNERABILITY</type>
      <target>
        <webApps>
          <set>
            <WebApp><id>8389207</id></WebApp>
            <WebApp><id>8389244</id></WebApp>
          </set>
        </webApps>
        <scannerAppliance>
          <type>EXTERNAL</type>
        </scannerAppliance>
      </target>
      <profile>
        <id>2337683</id>
      </profile>
      <sendOneMail>true</sendOneMail>
    </WasScan>
  </data>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/XMLSchema/3.0/was/wasscan.xsd">
```

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<responseCode>SUCCESS</responseCode>
<count>1</count>
<data>
  <WasScan>
    <id>3456140</id>
  </WasScan>
</data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/wasscan.xsd
Scan Again

/qps/rest/3.0/scanagain/was/scan/<id>

[POST]

We now provide the option to execute a previous scan again. Identify the scan you want to run again and use scanagain action. We’ll do our best to pre-fill the scan settings to match the original scan.

Permissions required - User must have WAS module enabled. User account must have these permissions: "API Access" and "Access WAS module". The web application must be in the user’s scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies the scan to be executed again. You could optionally provide a new name for the scan as well.

Click here for available operators

Sample - Scan with Scanagain option

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/scanagain/was/wasscan/4626354"

Request POST data

<ServiceRequest>
<data>
    <WasScan>
        <name>Sample Scan Name for Rescan</name>
    </WasScan>
</data>
</ServiceRequest>
## XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScan>
      <id>4626354</id>
    </WasScan>
  </data>
</ServiceResponse>
```
Retrieve Scan Status

/qps/rest/3.0/status/was/wasscan/<id>

[GET]

Retrieve the status of a scan on a web application which is in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes scan targets in the user’s scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies the scan.

Click here for available operators

Sample - View scan status along with authentication status

View details for the scan with the ID 1902350.

API request

curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/status/was/wasscan/1902350"

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScan>
      <id>1902350</id>
    </WasScan>
  </data>
</ServiceResponse>
<status>FINISHED</status>
<summary>
  <resultsStatus>NO_HOST_ALIVE</resultsStatus>
  <authStatus>NONE</authStatus>
</summary>
</WasScan>
</data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was(scan.xsd
Retrieve Scan Results

/qps/rest/3.0/download/was/wasscan/<id>
/qps/rest/2.0/download/was/wasscan/<id>

[GET]

Retrieve the results of a scan on a web application which is in the user’s scope. Include “3.0” in the URL for WASA v3 scan results using the WAS API schema, part of the API V3 architecture (see https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscan.xsd). Include “2.0” in the URL for scan results in legacy format (WAS v2 and earlier), using the webapp_scan.dtd - see Reference: WAS Scan Results (legacy).

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes scan targets in the user’s scope.

Tip: When you download web application scan results using the WAS API, you’ll want to view vulnerability descriptions from the Qualys KnowledgeBase in order to understand the vulnerabilities detected and see our recommended solutions. See How to Download Vulnerability Details.

Input Parameters

The element “id” (integer) is required, where “id” identifies the scan.

Click here for available operators

Sample - Download results of a scan

Download the results of the scan with the ID 174726.

**API request**

curl -n -u "USERNAME:PASSWORD" 
"https://qualysapi.qualys.com/qps/rest/3.0/download/was/wasscan/174726"
XML response

<?xml version="1.0" encoding="UTF-8"?>
<WasScan xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/wasscan.xsd">
  <id>174726</id>
  <name><![CDATA[My Web Application Scan]]></name>
  <reference>was/1328563860860.218807</reference>
  <type>VULNERABILITY</type>
  <mode>API</mode>
  <target>
    <webApp>
      <id>952835</id>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[https://example.com/]]></url>
    </webApp>
    <scannerAppliance>
      <type>INTERNAL</type>
      <friendlyName><![CDATA[is_quays_tc321]]></friendlyName>
    </scannerAppliance>
  </target>
  <profile>
    <id>6714</id>
    <name><![CDATA[Initial WAS Options]]></name>
  </profile>
  <options>
    <count>10</count>
    <list>
      <WasScanOption>
        <name>Detection Scope</name>
        <value>COMPLETE</value>
      </WasScanOption>
      <WasScanOption>
        <name>Maximum Crawling Links</name>
        <value>300</value>
      </WasScanOption>
      <WasScanOption>
        <name>Bruteforce Settings</name>
        <value>MINIMAL</value>
      </WasScanOption>
      <WasScanOption>
        <name>Option Profile Name</name>
        <value>Initial WAS Options</value>
      </WasScanOption>
    </list>
  </options>
</WasScan>
<name>Scanner Appliance Name</name>
<value><![CDATA[External (IP: 10.40.3.104, Scanner: 6.2.13-1, WAS: 2.13.5-1, Signatures: 2.2.52-2)]]></value>
</WasScanOption>

<WasScanOption>
  <name>Ignore Binary Files</name>
  <VALUE><![CDATA[true]]></VALUE>
</WasScanOption>
...
</list>
</options>
<launchedDate>2017-02-06T21:31:00Z</launchedDate>
<launchedBy>
  <id>35842</id>
  <username>username</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Smith]]></lastName>
</launchedBy>
$status>FINISHED</status>
<endScanDate>2017-02-06T21:49:34Z</endScanDate>
<scanDuration>1114</scanDuration>

<summary>
  <crawlDuration>16</crawlDuration>
  <testDuration>138</testDuration>
  <linksCollected>10</linksCollected>
  <linksCrawled>1</linksCrawled>
  <nbRequests>503</nbRequests>
  <averageResponseTime>0.001554</averageResponseTime>
  <resultsStatus>SUCCESSFUL</resultsStatus>
  <authStatus>NONE</authStatus>
</summary>

<stats>
<global>
  <nbVulnsTotal>79</nbVulnsTotal>
  <nbVulnsLevel5>24</nbVulnsLevel5>
  <nbVulnsLevel4>0</nbVulnsLevel4>
  <nbVulnsLevel3>3</nbVulnsLevel3>
  <nbVulnsLevel2>18</nbVulnsLevel2>
  <nbVulnsLevel1>34</nbVulnsLevel1>
  <nbScsTotal>0</nbScsTotal>
  <nbScsLevel5>0</nbScsLevel5>
  <nbScsLevel4>0</nbScsLevel4>
  <nbScsLevel3>0</nbScsLevel3>
  <nbScsLevel2>0</nbScsLevel2>
  <nbScsLevel1>0</nbScsLevel1>
</global>
</stats>
<nbIgsTotal>10</nbIgsTotal>
<nbIgsLevel5>0</nbIgsLevel5>
<nbIgsLevel4>0</nbIgsLevel4>
<nbIgsLevel3>0</nbIgsLevel3>
<nbIgsLevel2>0</nbIgsLevel2>
<nbIgsLevel1>10</nbIgsLevel1>
</global>
<byGroup>
  <count>3</count>
  <list>
    <GroupStat>
      <group>PATH</group>
      <nbTotal>18</nbTotal>
      <nbLevel5>0</nbLevel5>
      <nbLevel4>0</nbLevel4>
      <nbLevel3>0</nbLevel3>
      <nbLevel2>18</nbLevel2>
      <nbLevel1>0</nbLevel1>
    </GroupStat>
    ...
  </list>
</byGroup>
<byOwasp>
  <count>4</count>
  <list>
    <OwaspStat>
      <owasp>OWASP-A4</owasp>
      <nbTotal>18</nbTotal>
      <nbLevel5>0</nbLevel5>
      <nbLevel4>0</nbLevel4>
      <nbLevel3>0</nbLevel3>
      <nbLevel2>18</nbLevel2>
      <nbLevel1>0</nbLevel1>
    </OwaspStat>
    ...
  </list>
</byOwasp>
<byWasc>
  <count>5</count>
  <list>
    <WascStat>
      <wasc>WASC-15</wasc>
      <nbTotal>14</nbTotal>
      <nbLevel5>0</nbLevel5>
      <nbLevel4>0</nbLevel4>
      ...
Qualys Web Application Scanning API

Scans

...
Sample - Download results of a scan with SSL/TLS details

API request

curl -n -u "USERNAME:PASSWORD"  
"https://qualysapi.qualys.com/qps/rest/3.0/download/was/wasscan/1302"

XML response

<?xml version="1.0" encoding="UTF-8"?>
<WasScan xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0  
/was/wasscan.xsd">
  <id>3217161</id>
  <name>
    <![CDATA[[[SSL-Certs]] 2020-01-30 6:20:49PM]]>
  </name>
  <reference>was/1580388655076.626241</reference>
  <type>VULNERABILITY</type>
  <mode>ONDEMAND</mode>
<progressiveScanning>DISABLED</progressiveScanning>
<multi>false</multi>
	<target>
		<webApp>
			<id>3016632</id>
			<name><![CDATA[SSL-Certs]]></name>
			<url><![CDATA[https://10.115.78.72/welcome.html]]></url>
		</webApp>
		<scannerAppliance>
			<type>INTERNAL</type>
			<friendlyName><![CDATA[WAS_Scanner_vp1]]></friendlyName>
		</scannerAppliance>
		<cancelOption>SPECIFIC</cancelOption>
	</target>
	<profile>
		<id>893488</id>
		<name><![CDATA[ssl]]></name>
	</profile>
	<options>
		<count>16</count>
		<list>
			<WasScanOption>
				<name>Web Application Authentication Record Name</name>
				<value><![CDATA[None]]></value>
			</WasScanOption>
			...
		</list>
		<WasScanIg>
			<qid>38704</qid>
			<title><![CDATA[SSL/TLS Key Exchange Methods]]></title>
		</WasScanIg>
		...
	</options>
</profile>
<sslDataInfoList>
  <list>
    <SSLDataInfo>
      <sslDataKexList>
        <list>
          <SSLDataKex>
            <protocol>TLSv1</protocol>
            <kex>ECDHE</kex>
            <group>x25519</group>
            <keysize>256</keysize>
            <fwdsec>yes</fwdsec>
            <classical>128</classical>
            <quantum>low</quantum>
          </SSLDataKex>
        </list>
      </sslDataKexList>
      <title>
        <![CDATA[SSL/TLS Protocol Properties]]>
      </title>
      <sslData>
        <list>
          <SSLDataProp>
            <name>Extended Master Secret</name>
            <value>yes</value>
            <protocol>TLSv1</protocol>
          </SSLDataProp>
          <SSLDataProp>
            <name>Encrypt Then MAC</name>
            <value>yes</value>
            <protocol>TLSv1</protocol>
          </SSLDataProp>
        </list>
      </sslData>
    </SSLDataInfo>
  </list>
</sslDataInfoList>

<WasScanIg>
  <qid>38706</qid>
  <title>
    <![CDATA[DNS Host Name]]>
  </title>
</WasScanIg>

<WasScanIg>
  <qid>6</qid>
  <title>
    <![CDATA[DNS Host Name]]>
  </title>
</WasScanIg>
<sslData>
...<sslDataInfoList>
  <list>
    <SSLDataInfo>
      <certificateFingerprint>291126AC8ED272F71EDF06E5B76BBECD1C811769D4FE988DE95FF848AFEBCF6A</certificateFingerprint>
    </SSLDataInfo>
  </list>
...<WasScanIg>
  <qid>38291</qid>
  <title><![CDATA[SSL Session Caching Information]]></title>
...<WasScanIg>
  <qid>45017</qid>
  <title><![CDATA[Operating System Detected]]></title>
  <sslData>
    <protocol>tcp</protocol>
    <ip>10.115.78.72</ip>
    <port>0</port>
    <result><![CDATA[Ubuntu/_Fedora/_Tiny_Core_Linux/_Linux_3.x TCP/IP_Fingerprint U5933:443]]></result>
  </sslData>
...<WasScanIg>
  <qid>38116</qid>
  <title><![CDATA[SSL Server Information Retrieval]]></title>
...<sslDataInfoList>
  <list>
    <SSLDataInfo>
      <sslDataCipherList>
Qualys Web Application Scanning API

Scans

XSD

<platform_API_server>/qps/xsd/3.0/was/wasscan.xsd
Cancel Scan

/qps/rest/3.0/cancel/was/wasscan/<id>

[POST]

Cancel an unfinished scan on a web application which is in the user's scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Cancel WAS Scan”.

Input Parameters

The element “id” (integer) is required, where “id” identifies the scan.

Click here for available operators

Sample - Cancel unfinished scan

Cancel the unfinished scan that has the ID 168.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/cancel/was/wasscan/168"

XML response

   <responseCode>SUCCESS</responseCode>
   <count>1</count>
   <data>
      <WasScan>
         <id>168</id>
      </WasScan>
   </data>
</ServiceResponse>
Sample - Cancel unfinished scan with scan results

Use parameter `<cancelWithResults>` to cancel the scan and still retain results. You can use the scan ID and generate a report to view the results.

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/cancel/was/wasscan/6620298"
```

Request POST data

```
<ServiceRequest>
  <data>
    <WasScan>
      <cancelWithResults>true</cancelWithResults>
    </WasScan>
  </data>
</ServiceRequest>
```

XML response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <data>
    <WasScan>
      <id>6620298</id>
    </WasScan>
  </data>
</ServiceResponse>
```

XSD

```
<platform_API_server>/qps/xsd/3.0/was/wasscan.xsd
```
Delete Scan

/qps/rest/3.0/delete/was/wasscan/<id>

/qps/rest/3.0/delete/was/wasscan/<filters>

[POST]

Delete an existing scan on a web application which is in the user’s scope. You can delete any scan in your account that is not running.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Delete WAS scan” permission. The scan to be deleted must be within the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. Click here for descriptions of <WebApp> elements

[Click here for available operators]

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The scan ID.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The scan name.</td>
</tr>
<tr>
<td>webApp.name</td>
<td>(text) The name of the web application being scanned.</td>
</tr>
<tr>
<td>webApp.id</td>
<td>(integer) The ID of the web application being scanned.</td>
</tr>
<tr>
<td>reference</td>
<td>(text) Scan Reference ID.</td>
</tr>
<tr>
<td>launchedDate</td>
<td>(date) The date and time when the scan was launched in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API

Scans

type (keyword) The scan type: VULNERABILITY or DISCOVERY.

mode (keyword) The mode of the scan: ONDEMAND, SCHEDULED or API.

status (keyword) The status of the scan: SUBMITTED, RUNNING, FINISHED, TIME_LIMIT_EXCEEDED, SCAN_NOT_LAUNCHED, SCANNER_NOT_AVAILABLE, ERROR or CANCELED.

authStatus (Keyword) Indicates the status of the authentication record: NONE, NOT_USED, SUCCESSFUL, FAILED or PARTIAL.

resultsStatus (keyword) The status of the scan: NOT_USED, NO_HOST_ALIVE, NO_WEB_SERVICE, PROCESSING, SCAN_RESULTS_INVALID, TIME_LIMIT_REACHED, SERVICE_ERROR, SCAN_INTERNAL_ERROR, SUCCESSFUL, TO_BE_PROCESSED, TIME_LIMIT_EXCEEDED, SCAN_NOT_LAUNCHED, SCANNER_NOT_AVAILABLE, SUBMITTED, RUNNING, FINISHED, CANCELED, CANCELING ERROR, DELETED.

Sample - Delete a specified scan

Let us delete the scan with the ID 12405.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" "https://qualysapi.qualys.com/qps/rest/3.0/delete/was/wasscan/12405"

XML response

<?xml version="1.0" encoding="UTF-8"?>
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScan>
      <id>12405</id>
    </WasScan>
  </data>
</ServiceResponse>
Sample - Delete scans with criteria

Let us delete scans with a name that contains the string “VULN”.

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/delete/was/wasscan" < file.xml
Note: “file.xml” contains the request POST data.
```

**Request POST data**

```xml
<ServiceRequest>
    <filters>
        <Criteria field="name" operator="CONTAINS">VULN</Criteria>
    </filters>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscan.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>2</count>
    <data>
        <WasScan>
            <id>12874</id>
        </WasScan>
        <WasScan>
            <id>13093</id>
        </WasScan>
    </data>
</ServiceResponse>
```

**XSD**

`<platform_API_server>/qps/xsd/3.0/was/wasscan.xsd`
WasScan Reference

The <WasScan> element includes sub elements used to define a web application scan. A reference of these elements is provided below. An asterisk * indicates a complex element.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The scan ID. This element is assigned by the service and is required for a certain type of request (details, status, results or cancel).</td>
</tr>
<tr>
<td>name</td>
<td>(text) The user-defined scan name (maximum 256 characters).</td>
</tr>
<tr>
<td>target* (for single web application)</td>
<td>(text) The target of the scan. The target includes the web application and authentication records, if any.</td>
</tr>
</tbody>
</table>

    <scannerAppliance> - type (keyword) is set to INTERNAL for a scanner appliance, or EXTERNAL for external scanners or scannerTags for assigning multiple scanner appliances grouped by asset tag. If the type is INTERNAL, friendlyName (text) is the user-defined appliance name.

    </webAppAuthRecord> - Specify <id> set to an auth record ID, or <isDefault> set to true (to use the default auth record for the target web app).

Example: target.webApp is required

    <target>
        <webApp>
            <id>323126</id>
        </webApp>
        <webAppAuthRecord>
            <id>1054</id>
        </webAppAuthRecord>
        <scannerAppliance>
            <type>Internal</type>
            <friendlyName>dp_scanner</friendlyName>
        </scannerAppliance>
        <cancelOption>DEFAULT</cancelOption>
Qualys Web Application Scanning API

Scans

</target>

target* (for multiple web application)

<cancelOption> set to DEFAULT - Forces the use of the target web app’s cancelScans option if set, else fall back to the one passed in to the API while launching the scan.

<cancelOption> set to SPECIFIC - Always use the cancel scan option passed while launching the scan.

<target.authRecordOption> set to SPECIFIC - Always use the authRecord passed while launching the scan.

<target.authRecordOption> set to DEFAULT - Forces the use of the authRecord, if set, else fall back to the one passed in to the API while launching the scan.

<target.profileOption> set to SPECIFIC - Always use the optionProfile passed while launching the scan.

<target.profileOption> set to DEFAULT - Forces the use of the optionProfile if set, else fall back to the one passed in to the API while launching the scan.

<target.scannerOption> set to SPECIFIC - Always use the scanner passed while launching the scan.

<target.scannerOption> set to DEFAULT - Forces the use of the scanner if set, else fall back to the one passed in to the API while launching the scan.

<target.randomizeScan> (Boolean) - Set to true to scan the selected web applications in random order. Set to false to scan the selected web application in sequential order.

target.tags (For MultiScan)--

---target.tags.included.option(ALL/ANY) is required,

---target.tags.included.tagList is required, only <set> is allowed for target.tags.included.tagList.

--- target.tags.included.tagList.set.Tag.id is required and should be
valid

---Only target.tags.exclusive is not allowed, it must be with target.tags.inclusive

---If target.tags.excluded is present, all the above rules are applicable to it

Example: Either target.webApps or target.tags is required and these are mutually exclusive.

target.webApps (For MultiScan)- Only <set> is allowed for target.webApps
<webApps>
  <set>
    <WebApp>
      <id>4330527</id>
    </WebApp>
    <WebApp>
      <id>4330327</id>
    </WebApp>
  </set>
</webApps>
target.tags (For MultiScan)-
<tags>
  <included>
    <option>ALL</option>
    <tagList>
      <set>
        <Tag><id>12017424</id></Tag>
        <Tag><id>12017228</id></Tag>
      </set>
    </tagList>
  </included>
  <excluded>
    <option>ANY</option>
    <tagList>
      <set>
        <Tag><id>12017228</id></Tag>
      </set>
    </tagList>
  </excluded>
</tags>

<p>| type          | (keyword) The scan type: VULNERABILITY or DISCOVERY. | 203 |</p>
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Example</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>sendMail</td>
<td>(boolean) Set to false to disable scan complete email notifications.</td>
<td>Example: <code>&lt;sendMail&gt;false&lt;/sendMail&gt;</code></td>
<td></td>
</tr>
<tr>
<td>sendOneMail</td>
<td>(boolean) Set to true to send one email upon multi-scan completion. Set to false to send one email upon completion of each individual scan.</td>
<td>Example: <code>&lt;sendOneMail&gt;true&lt;/sendOneMail&gt;</code></td>
<td>Note: sendOneMail is valid only when sendMail = true for a multi-scan (multiple web applications being scanned). If sendMail is set to false, sendOneMail will be ignored.</td>
</tr>
<tr>
<td>profile.id</td>
<td>(integer) The name of the option profile that includes scan settings. The service provides the profile “Initial WAS Options” and we recommend this to get started.</td>
<td>Example: <code>&lt;profile&gt;</code></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><code>&lt;name&gt;Initial WAS Options&lt;/name&gt;</code></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><code>&lt;/profile&gt;</code></td>
<td></td>
</tr>
<tr>
<td>proxy.id</td>
<td>(integer) The proxy for scanning the target web application.</td>
<td>Example: <code>&lt;proxy&gt;</code></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><code>&lt;id&gt;12345&lt;/id&gt;</code></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><code>&lt;/proxy&gt;</code></td>
<td></td>
</tr>
<tr>
<td>dnsOverride.id</td>
<td>(integer) The DNS override record for scanning the target web application.</td>
<td>Example: <code>&lt;dnsOverride&gt;</code></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><code>&lt;id&gt;67890&lt;/id&gt;</code></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><code>&lt;/dnsOverride&gt;</code></td>
<td></td>
</tr>
<tr>
<td>Scanner Appliance</td>
<td>(integer) The IP address of the external scanner appliance, when an external scanner is used.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>mode</td>
<td>(keyword) The mode of the scan: ONDEMAND, SCHEDULED or API.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### launchedDate
*(date)* The date and time when the scan was launched in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).

### launchedBy*
The user who launched the scan. User properties include user ID, user login, first and last name.

Example:
```
<launchedBy>
  <id>123056</id>
  <username>username</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Smith]]></lastName>
</launchedBy>
```

### status
*(keyword)* The status of the scan: SUBMITTED, RUNNING, FINISHED, TIME_LIMIT_EXCEEDED, SCAN_NOT_LAUNCHED, SCANNER_NOT_AVAILABLE, ERROR or CANCELED.

### endDate
*(date)* The date and time when the scan ended in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).

### summary
The scan summary. `<crawlTime>` is the length of time used to crawl the web application. `<testDuration>` is the length of time used to perform analysis. `<nbRequests>` is the number of requests sent during the scan. `<authStatus>` is the authentication status (NONE, NOT_USED, SUCCESSFUL, FAILED or PARTIAL).

Example:
```
<summary>
  <crawlTime>22.0</crawlTime>
  <testDuration>112.0</testDuration>
  <linksCrawled>17</linksCrawled>
  <nbRequests>3814</nbRequests>
  <os>Windows XP SP2</os>
  <resultsStatus>RESULTS_PROCESSED_SUCCESSFULLY</resultsStatus>
  <authStatus>NO_AUTH</authStatus>
</summary>
```

### vulns
The list of detected vulnerabilities. Each `<WasScanVuln>` element identifies a particular vulnerability QID and the URI where detected, each `<WasScanVulnInstance>` element identifies a vulnerability instance, and each `<WasScanVulnInstancePayload>` element identifies a specific payload for the vulnerability.
The detected information gathered. Each `<WasScanIg>` element identifies a particular information gathered QID.

<table>
<thead>
<tr>
<th>sensitiveContents* mass-sensitiveContent</th>
<th>The detected sensitive content. Each <code>&lt;WasScanSensitiveContent&gt;</code> element identifies a particular sensitive content QID and the URI where detected, each <code>&lt;instances&gt;</code> element identifies a sensitive content instance, and each <code>&lt;WasScanSensitiveContentInstancePayLoad&gt;</code> element identifies associated payloads.</th>
</tr>
</thead>
<tbody>
<tr>
<td>stats mass-stats</td>
<td>The statistics gathered by the scan: the total number of vulnerabilities, the number of vulnerabilities by severity level, information gathered by severity level and the number of vulnerabilities by group, OWASP and WASC.</td>
</tr>
</tbody>
</table>

<cancelWithResults> (boolean) A flag to indicate if the scan to be canceled should retain partial scan results or not. The parameter is supported for single scan, only child scan (but not parent scan).

We recommend you to use this parameter only after 20 minutes of scan goes into Running status.

Example:

```xml
<WasScan>
  <cancelWithResults>true</cancelWithResults>
</WasScan>
```
WAS Scan Results Reference

You have the option to retrieve web application scan results in legacy format (WAS v2 and earlier), using the webapp_scan.dtd (see Retrieve the results of a scan). You can download this DTD by going to https://qualysapi.qualys.com/webapp_scan.dtd (where qualysapi is the API server URL where your account is located).

```
WAS scan results DTD

<?xml version="1.0" encoding="UTF-8"?>
<!-- QUALYS WEB APPLICATION SCAN DTD -->
<!ELEMENT WEB_APPLICATION_SCAN (ERROR | (HEADER, SUMMARY, RESULTS))>
<!ELEMENT ERROR (#PCDATA)>
<!ATTLIST ERROR number CDATA #IMPLIED>
<!-- GENERIC HEADER -->
<!ELEMENT HEADER (NAME, GENERATION_DATETIME, COMPANY_INFO, USER_INFO)>
<!ELEMENT NAME (#PCDATA)>
<!ELEMENT GENERATION_DATETIME (#PCDATA)>
<!ELEMENT COMPANY_INFO (NAME, ADDRESS, CITY, STATE, COUNTRY, ZIP_CODE)>
<!ELEMENT ADDRESS (#PCDATA)>
<!ELEMENT CITY (#PCDATA)>
<!ELEMENT STATE (#PCDATA)>
<!ELEMENT COUNTRY (#PCDATA)>
<!ELEMENT ZIP_CODE (#PCDATA)>
<!ELEMENT USER_INFO (NAME, USERNAME, ROLE)>
<!ELEMENT USERNAME (#PCDATA)>
<!ELEMENT ROLE (#PCDATA)>
<!-- SUMMARY -->
<!ELEMENT SUMMARY (SCAN_SUMMARY, VULN_SUMMARY?, SENSITIVE_CONTENT_SUMMARY)>
<!ELEMENT SCAN_SUMMARY (SCAN_INFO*)>
<!ELEMENT SCAN_INFO (KEY, VALUE)>
<!ELEMENT KEY (#PCDATA)>
<!ELEMENT VALUE (#PCDATA)>
<!ELEMENT VULN_SUMMARY (VULN_GROUP*)>
<!ELEMENT VULN_GROUP (TITLE, SEVERITY_5, SEVERITY_4, SEVERITY_3, SEVERITY_2, SEVERITY_1, TOTAL)>
<!ELEMENT SEVERITY_1 (#PCDATA)>
<!ELEMENT SEVERITY_2 (#PCDATA)>
```
Qualys Web Application Scanning API

Scans
Schedules

Schedule Count

/qps/rest/3.0/count/was/wasscanschedule

[GET] [POST]

Returns the total number of schedules in the user’s account. Input elements are optional and are used to filter the number of schedules included in the count.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes scan targets in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. All dates must be entered in UTC date/time format. See Reference: WasScanSchedule for descriptions of these <WasScanSchedule> elements.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The schedule ID. This element is assigned by the service and is required for a certain type of request.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The user-defined schedule name (maximum 256 characters).</td>
</tr>
<tr>
<td>owner.id</td>
<td>(integer) ID associated with the owner who created the schedule.</td>
</tr>
</tbody>
</table>
createdDate  (date) The date when the schedule was created in WAS, in UTC date/time format.

updatedDate  (date) The date when the schedule was created in WAS, in UTC date/time format.

type  (keyword) The scheduled scan type: VULNERABILITY or DISCOVERY.

webApp.name  (text) The name of the web application being scanned.

webApp.id  (integer) The ID of the web application being scanned.

webApp.tags  (with operator="NONE") Tags associated with the web application being scanned.

webApp.tags.id  (integer) ID of the tag applied to the web application being scanned.

invalid  (boolean) Indicates the schedule is invalid. The web application to which the schedule was applied is deleted and hence the schedule is invalid.

active  (boolean) Indicates whether the schedule is active or not. True indicates active schedule.

Sample - Get count of schedules in user’s account

Return the number (count) of all schedules in the user’s scope.

**API request**
curl -u "USERNAME:PASSWORD" https://qualysapi.qualys.com/qps/rest/3.0/count/was/wasscanschedule

**XML response**
Sample - Get count of schedules with a criteria

Return the number (count) of schedules for discovery scan type.

API request

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/count/was/wasscanschedule" < file.xml
```

Note: “file.xml” contains the request POST data.

Request POST data

```xml
<ServiceRequest>
  <filters>
    <Criteria field="type" operator="EQUALS">DISCOVERY</Criteria>
  </filters>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>3</count>
</ServiceResponse>
```

Sample - Get count of schedules for web applications without tags

Return the number (count) of schedules for web application that are not tagged.
**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/count/was/wasscanschedule" < file.xml

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <filters>
    <Criteria field="webApp.tags" operator="NONE"></Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
</ServiceResponse>
```

Sample - Get count of schedules for web applications with tags

Return the number (count) of schedules for web applications that are tagged.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/count/was/wasscanschedule" < file.xml

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <filters>
    <Criteria field="webApp.tags.id" operator="EQUALS">1516928</Criteria>
  </filters>
</ServiceRequest>
```
Qualys Web Application Scanning API

Schedules

```xml
<Schedules>
  <filters>
    <Criteria field="webApp.tags.id" operator="EQUALS">1234567</Criteria>
  </filters>
</Schedules>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
</ServiceResponse>
```

XSD

```xml
<platform_API_server>/qps/xsd/3.0/was/wasscanschedule.xsd
```
Search Schedule

/qps/rest/3.0/search/was/wasscanschedule

[POST]

Returns a list of scheduled scans on web applications which are in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes scan targets in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. All dates must be entered in UTC date/time format. See Reference: WasScanSchedule for descriptions of these <WasScanSchedule> elements.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The schedule ID. This element is assigned by the service and is required for a certain type of request.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The user-defined schedule name (maximum 256 characters).</td>
</tr>
<tr>
<td>owner.id</td>
<td>(integer) ID associated with the owner who created the schedule.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the schedule was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date when the schedule was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>active</td>
<td>(boolean) Indicates whether the schedule is active or not. True indicates active schedule.</td>
</tr>
<tr>
<td>---------------</td>
<td>------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) The scheduled scan type: VULNERABILITY or DISCOVERY.</td>
</tr>
<tr>
<td>webApp.name</td>
<td>(text) The name of the web application being scanned.</td>
</tr>
<tr>
<td>webApp.id</td>
<td>(integer) The ID of the web application being scanned.</td>
</tr>
<tr>
<td>webApp.tags</td>
<td>Tags associated with the web application being scanned.</td>
</tr>
<tr>
<td>webApp.tags.id</td>
<td>(integer) ID of the tag applied to the web application being scanned.</td>
</tr>
<tr>
<td>invalid</td>
<td>(boolean) Indicates the schedule is invalid. The web application to which the schedule was applied is deleted and hence the schedule is invalid.</td>
</tr>
<tr>
<td>lastScan</td>
<td>(boolean) Indicates if the last scan was performed or not. True indicates that the last scan was performed.</td>
</tr>
<tr>
<td>lastScan.date</td>
<td>(date) Date when the last scan was launched on the web application, in UTC date/time format.</td>
</tr>
<tr>
<td>lastScan.status</td>
<td>(keyword) Scan status reported by last web application scan: SUBMITTED, RUNNING, FINISHED, TIME_LIMIT_EXCEEDED, SCAN_NOT_LAUNCHED, SCANNER_NOT_AVAILABLE, ERROR, CANCELED)</td>
</tr>
<tr>
<td>multi</td>
<td>(boolean) Indicates if the scheduled scan is single scan or multiple scan.</td>
</tr>
</tbody>
</table>
Sample - List of schedules never launched

Let us view a list of all schedules that are in the user’s scope but were not launched.

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" "https://qualysapi.qualys.com/qps/rest/3.0/search/was/wasscanschedule < file.xml"
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <filters>
    <Criteria field="lastScan" operator="NONE"></Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <WasScanSchedule>
      <id>171425669</id>
      <name><![CDATA[Web Application Vulnerability Scan - 2017-Aug-19]]></name>
      <owner>
        <id>8792415669</id>
      </owner>
      <active>false</active>
      <type>VULNERABILITY</type>
      <target>
        <webApp>
          <id>1296335669</id>
          <name><![CDATA[My Web Application]]></name>
          <url><![CDATA[http://10.10.1.100]]></url>
        </webApp>
      </target>
    </WasScanSchedule>
  </data>
</ServiceResponse>
```
Sample - List launched schedules

Let us view a list of all schedules that are in the user’s scope and were launched.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.comqps/qps/rest/3.0/search/was/wasscanschedule" < file.xml

Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <filters>
    <Criteria field="lastScan.status" operator="IN">FINISHED,ERROR</Criteria>
  </filters>
</ServiceRequest>
<Criteria field="lastScan.launchedDate" operator="LESSER">2017-08-19</Criteria>
</filters>
</ServiceRequest>

**XML response**

```xml
<WasScanSchedule>
  <id>97354000</id>
  <name><![CDATA[Schedule Notification]]></name>
  <owner>
    <id>334527</id>
  </owner>
  <active>false</active>
  <type>VULNERABILITY</type>
  <target>
    <webApp>
      <id>1061764000</id>
      <name><![CDATA[My Web App]]></name>
      <url><![CDATA[http://10.10.26.238]]></url>
    </webApp>
    <webAppAuthRecord>
      <id>8753</id>
      <name><![CDATA[Auth Record 1]]></name>
    </webAppAuthRecord>
    <scannerAppliance>
      <type>EXTERNAL</type>
    </scannerAppliance>
  </target>
  <profile>
    <id>55784</id>
    <name><![CDATA[Initial WAS Options]]></name>
  </profile>
  <scheduling>
    <startDate>2017-05-06T18:22:00Z</startDate>
    <timeZone>
      <code>America/Dawson</code>
      <offset>-07:00</offset>
    </timeZone>
    <occurrenceType>DAILY</occurrenceType>
    <occurrence>
      <dailyOccurrence>
        <everyNDays>1</everyNDays>
      </dailyOccurrence>
    </occurrence>
  </scheduling>
</WasScanSchedule>
```

...
Sample - List schedules no criteria

Let us view a list of all schedules that are in the user’s scope and were launched.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/qps/rest/3.0/search/was/wasscanschedule" < file.xml

Note: “file.xml” contains the request POST data. Specify an empty file, since no search criteria is being specified.

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <WasScanSchedule>
      <id>649146</id>
      <name><![CDATA[Web Application Vulnerability Scan - 2018-10-08]]></name>
      <owner>
```
Sample - List active schedules
Let us view a list of all schedules that are in the user’s scope and were launched.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/qps/rest/3.0/search/was/wasscanschedule" < file.xml  
Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <filters>
    <Criteria field="active" operator="EQUALS">true</Criteria>
    <Criteria field="type" operator="EQUALS">VULNERABILITY</Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="https://qualysapi.p04.eng.sjc01.qualys.com/qps/xsd/3.0/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <WasScanSchedule>
      <id>649146</id>
      <name>![CDATA[Web Application Vulnerability Scan - 2018-10-08]]>
      <owner>
        <id>412791</id>
      </owner>
      <active>true</active>
      <multi>false</multi>
      <type>VULNERABILITY</type>
      <target>
        <webApp>
```
<id>8077389</id>
<name>
  <![CDATA[SampleWebApp_1538665472012 ]]>
</name>
<url>
  <![CDATA[http://funkytown.vuln.qa.example.com:80/cassium/xss/]]>
</url>
</webApp>
<scannerAppliance>
  <type>EXTERNAL</type>
</scannerAppliance>
<cancelOption>SPECIFIC</cancelOption>
</target>
<profile>
  <id>1162483</id>
  <name>
    <![CDATA[Option Profile]]>
  </name>
</profile>
<scheduling>
  <startDate>2018-10-08T16:41:00Z</startDate>
  <timeZone>
    <code>Asia/Colombo</code>
    <offset>+05:30</offset>
  </timeZone>
  <occurrenceType>ONCE</occurrenceType>
  <nextLaunchDate>2018-10-09T11:11:00Z</nextLaunchDate>
</scheduling>
<createdDate>2018-10-08T11:12:28Z</createdDate>
<updatedDate>2018-10-08T11:12:29Z</updatedDate>
</WasScanSchedule>
</data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/webappauthrecord.xsd
Get Schedule Details

/qps/rest/3.0/get/was/wasscanschedule/<id>

[GET]

View details for a scheduled scan on a web application which is in the user’s scope. Want to find a schedule ID to use as input? See Search schedules.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes schedules in the user's scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies a schedule.

Click here for available operators

Sample - View schedule details

Let us view details for schedule with ID 714393.

**API request**

curl -n -u "USERNAME:PASSWORD"  
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/wasscanschedule/714393"

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/wasscanschedule.xsd">  
<responseCode>SUCCESS</responseCode>  
   <count>1</count>  
   <data>  
     <WasScanSchedule>  
       <id>714393</id>  
     </WasScanSchedule>  
   </data>  
</ServiceResponse>
```
<![CDATA[Web schedVulnerability Scan - 2017-06-30]]>
</name>
<owner>
  <id>2473353</id>
  <username>username</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Smith]]></lastName>
</owner>
<active>false</active>
<multi>true</multi>
<type>VULNERABILITY</type>
<target>
  <tags>
    <included>
      <option>ALL</option>
      <tagList>
        <Tag>
          <id>12075819</id>
          <name><![CDATA[New_tag]]></name>
        </Tag>
        <Tag>
          <id>2685657</id>
          <name><![CDATA[Business Units]]></name>
        </Tag>
      </tagList>
    </included>
  </tags>
  <scannerAppliance>
    <type>EXTERNAL</type>
  </scannerAppliance>
  <cancelOption>DEFAULT</cancelOption>
  <authRecordOption>DEFAULT</authRecordOption>
  <profileOption>DEFAULT</profileOption>
  <scannerOption>DEFAULT</scannerOption>
  <randomizeScan>false</randomizeScan>
  <useDnsOverride>false</useDnsOverride>
</target>
<profile>
  <id>598333</id>
<name>
 <!--[CDATA[Initial WAS Options]]>
</name>
</profile>
scheduling>
startDate>2017-06-30T11:26:00Z</startDate>
timeZone>
code>Asia/Colombo</code>
offset>+05:30</offset>
</timeZone>
occurrenceType>ONCE</occurrenceType>
</scheduling>
notification>
active>false</active>
reschedule>false</reschedule>
delay>
  nb>1</nb>
scale>DAY</scale>
</delay>
message>
 <!--[CDATA[A Qualys scan is scheduled to start soon.]]>
</message>
</notification>
launchedCount>0</launchedCount>
createdDate>2017-06-30T05:57:12Z</createdDate>
createdBy>
  id>2473353</id>
  username>username</username>
  firstName>John</firstName>
  lastName>Smith</lastName>
</createdBy>
updatedDate>2017-07-01T05:56:02Z</updatedDate>
updatedBy>
  id>2473353</id>
  username>username</username>
  firstName>John</firstName>
  lastName>Smith</lastName>
</updatedBy>
sendMail>true</sendMail>
sendOneMail>true</sendOneMail>
enableWAFAuth>false</enableWAFAuth>
</WasScanSchedule>
</data>
</ServiceResponse>
Sample - View schedule details (progressive scan)

The progressiveScanning element will be included in the call response, if Progressive Scanning is enabled for the subscription.

**API request**

```
curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/wasscanschedule/8183"
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?><ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscanschedule.xsd"><responseCode>SUCCESS</responseCode><count>1</count><data><WasScanSchedule><id>8183</id><name><![CDATA[WASUI-3772 #3]]></name>...<progressiveScanning>ENABLED</progressiveScanning>...
```

**XSD**

```
<platform_API_server>/qps/xsd/3.0/wasscanschedule.xsd
```
Create a Schedule (single web application)

/qps/rest/3.0/create/was/wasscanschedule

[POST]

Create a scheduled scan on a web application which is in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Create WAS Schedule” permission. The output includes schedules in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. See Reference: WasScanSchedule for descriptions of these <WasScanSchedule> elements

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>(text) Name of the schedule.</td>
</tr>
<tr>
<td>target.webApp.id1</td>
<td>(integer) The web applications to be scanned.</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) The scheduled scan type: VULNERABILITY or DISCOVERY.</td>
</tr>
<tr>
<td>profile.id2</td>
<td>(integer) The name of the option profile that includes scan settings.</td>
</tr>
<tr>
<td></td>
<td>The service provides the profile “Initial WAS Options” and we recommend this to get started.</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API

Schedules

<profile>
   <name>Initial WAS Options</name>
</profile>

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>startDate</td>
<td>(date) The date when the schedule starts in UTC date/time format.</td>
</tr>
<tr>
<td>timeZone</td>
<td>(text) The timezone in which the scan is scheduled in UTC date/time format.</td>
</tr>
<tr>
<td>occurrenceType</td>
<td>(keyword) The frequency of the scheduled scan: ONCE, DAILY, WEEKLY or MONTHLY.</td>
</tr>
<tr>
<td>notification</td>
<td>(boolean) A flag indicating whether email notification is enabled for scheduled scan.</td>
</tr>
<tr>
<td>reschedule</td>
<td>(boolean) Set this flag to reschedule the scan.</td>
</tr>
<tr>
<td>target.scannerAppliance.type</td>
<td>(keyword) The type of scanner appliance used for the scan: EXTERNAL or INTERNAL or scannerTags.</td>
</tr>
<tr>
<td>target.scannerAppliance.friendlyName</td>
<td>(text) Name of the scanner appliance used for the scan.</td>
</tr>
<tr>
<td>target.scannerTags.set.Tag.id</td>
<td>(integer) The scanner associated with the tag (identified by the specified tag ID) is picked for the scan.</td>
</tr>
<tr>
<td>target.webAppAuthRecord.id or target.webAppAuthRecord.isDefault</td>
<td>Decides the authentication record to be used for the scan.</td>
</tr>
<tr>
<td>target.webAppAuthRecord.id (integer): Specify the web</td>
<td></td>
</tr>
</tbody>
</table>
### Qualys Web Application Scanning API

#### Schedules

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>target.webAppAuthRecord.isDefault (boolean)</td>
<td>Set to true to use the default web application's authentication record for the scan.</td>
</tr>
<tr>
<td>options (keyword: ANY, ALL)</td>
<td>Decides which web applications should be excluded from the scan.</td>
</tr>
<tr>
<td>ALL : Only the web applications associated with all the specified tags are excluded from the scan.</td>
<td></td>
</tr>
<tr>
<td>ANY : Only the web applications associated with any of the specified tags are excluded from the scan.</td>
<td></td>
</tr>
<tr>
<td>proxy.id (integer)</td>
<td>The proxy for scanning the target web application.</td>
</tr>
<tr>
<td>Example:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;proxy&gt;</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>dnsOverride.id (integer)</td>
<td>The DNS override record for scanning the target web application.</td>
</tr>
<tr>
<td>Example:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;dnsOverride&gt;</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>cancelOption (keyword: DEFAULT, SPECIFIC)</td>
<td>set to DEFAULT - Forces the use of the target web app’s cancelScans option if set, else fall back to the one</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API

Schedules

Passed in to the API while launching the scan.

Set to SPECIFIC - Always use the cancel scan option passed while launching the scan.

(sendMail) (boolean) Set to false to disable scan complete email notifications.

Example: <sendMail>false</sendMail>

1. The element target must have at least tags or web applications specified.

2. The element profile (text) is required unless the target has a default option profile.

Sample - Create a new weekly schedule

Let us create a new web application called “My Web Application” that has the starting URL “http://mywebapp.com”. The default web application settings are assigned automatically.

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/wasscanschedule" < file.xml
```

Note: “file.xml” contains the request POST data.

Request POST data

```
<ServiceRequest>
<data>
  <WasScanSchedule>
    <name><![CDATA[Create Schedule from API3 - using Reschedule]]></name>
    <type>VULNERABILITY</type>
    <active>false</active>
    <scheduling>
      <cancelAfterNHours>8</cancelAfterNHours>
      <startDate>2017-09-06T09:50:11Z</startDate>
      <timeZone>
      
```

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Qualys Web Application Scanning API

Schedules

<code>America/Vancouver</code>
<offset>-07:00</offset>
</timeZone>
<occurrenceType>WEEKLY</occurrenceType>
<occurrence>
  <weeklyOccurrence>
    <everyNWeeks>2</everyNWeeks>
    <occurrenceCount>20</occurrenceCount>
    <onDays>
      <WeekDay>SATURDAY</WeekDay>
      <WeekDay>SUNDAY</WeekDay>
    </onDays>
  </weeklyOccurrence>
</occurrence>
</scheduling>

<notification>
  <active>true</active>
  <reschedule>true</reschedule>
  <delay>
    <nb>1</nb>
    <scale>DAY</scale>
  </delay>
  <message><![CDATA[A Qualys scan is scheduled to start soon.]]></message>
</notification>
<target>
  <webApp>
    <id>1296335669</id>
  </webApp>
  <webAppAuthRecord>
    <id>175535669</id>
  </webAppAuthRecord>
</target>
<profile>
  <id>712265669</id>
</profile>
</WasScanSchedule>
</data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"...>
Qualys Web Application Scanning API

Schedules

<xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScanSchedule>
      <id>203285669</id>
      <name><![CDATA[Create Schedule from API3 - using Reschedule]]></name>
      <owner>
        <id>8792415669</id>
        <username>quays_cp</username>
        <firstName><![CDATA[Customer_2.6_1]]></firstName>
        <lastName><![CDATA[pocm]]></lastName>
      </owner>
      <active>false</active>
      <type>VULNERABILITY</type>
      <target>
        <webApp>
          <id>1296335669</id>
          <name><![CDATA[My Web Application]]></name>
          <url><![CDATA[http://10.10.26.238]]></url>
        </webApp>
        <webAppAuthRecord>
          <id>175535669</id>
          <name><![CDATA[AR1]]></name>
        </webAppAuthRecord>
      </target>
      <profile>
        <id>712265669</id>
        <name><![CDATA[Initial WAS Options]]></name>
      </profile>
      <scheduling>
        <startDate>2017-09-06T09:50:00Z</startDate>
        <timeZone>
          <code>America/Vancouver</code>
          <offset>-07:00</offset>
        </timeZone>
        <occurrenceType>ONCE</occurrenceType>
        <cancelAfterNHours>8</cancelAfterNHours>
      </scheduling>
    </WasScanSchedule>
  </data>
</xsi:noNamespaceSchemaLocation>
Sample - Create a new schedule - cancel scan option

Create a new vulnerability scan schedule on web app ID 2376281 and set the cancel scan option to SPECIFIC. Scans launched from this schedule will always use the cancel scan option passed with the schedule settings and will override the target web app’s cancel scan setting, if set.

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @"https://qualysapi.qualys.com/qps/rest/3.0/create/was/wasscanschedule" < file.xml
```

Note: “file.xml” contains the request POST data.
Request POST data

```
<ServiceRequest>
  <data>
    <WasScanSchedule>
      <name><![CDATA[My Scan Schedule]]></name>
      <type>VULNERABILITY</type>
      <scheduling>
        <cancelAfterNHours>7</cancelAfterNHours>
        <startDate>2017-09-30T13:11:00Z</startDate>
        <timeZone>
          <code>America/Dawson</code>
        </timeZone>
        <occurrenceType>ONCE</occurrenceType>
      </scheduling>
      <target>
        <webApp>
          <id>2376281</id>
        </webApp>
        <scannerAppliance>
          <type>EXTERNAL</type>
        </scannerAppliance>
        <cancelOption>SPECIFIC</cancelOption>
      </target>
      <profile>
        <id>332147</id>
      </profile>
    </WasScanSchedule>
  </data>
</ServiceRequest>
```

XML response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScanSchedule>
      <id>325624</id>
      <name><![CDATA[My Scan Schedule]]></name>
      <owner>
        <id>2086786</id>
        <username>user_john</username>
      </owner>
    </WasScanSchedule>
  </data>
</ServiceResponse>
```
<firstName><![CDATA[John]]></firstName>
<lastName><![CDATA[Doe]]></lastName>
</owner>
<active>true</active>
<type>VULNERABILITY</type>
<target>
  <webApp>
    <id>2376281</id>
    <name><![CDATA[My Web App]]></name>
    <url><![CDATA[http://10.10.26.238]]></url>
  </webApp>
  <scannerAppliance>
    <type>EXTERNAL</type>
  </scannerAppliance>
  <cancelOption>SPECIFIC</cancelOption>
</target>
<progressiveScanning>DEFAULT</progressiveScanning>
<profile>
  <id>332147</id>
  <name><![CDATA[10 links]]></name>
</profile>
<scheduling>
  <startDate>2017-09-30T13:11:00Z</startDate>
  <timeZone>
    <code>America/Dawson</code>
    <offset>-07:00</offset>
  </timeZone>
  <occurrenceType>ONCE</occurrenceType>
  <cancelAfterNHours>7</cancelAfterNHours>
</scheduling>
(notification>
  <active>false</active>
</notification>
<nextLaunchDate>2017-09-30T20:11:00Z</nextLaunchDate>
<launchedCount>0</launchedCount>
<createdDate>2017-06-26T20:54:30Z</createdDate>
<createdBy>
  <id>2086786</id>
  <username>user_john</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</createdBy>
<updatedDate>2017-06-26T20:54:30Z</updatedDate>
<updatedBy>
  <id>2086786</id>
</updatedBy>
Sample - Create a new schedule - assign multiple scanners

Let us schedule a discovery scan on the web application and assign the pool of scanners using the asset tag ID.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @$- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/wasscanschedule" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <data>
    <WasScanSchedule>
      <name><![CDATA[Scheduled Scan With Pool of Internal Scanners]]></name>
      <type>VULNERABILITY</type>
      <active>false</active>
      <scheduling>
        <cancelAfterNHours>10</cancelAfterNHours>
        <startDate>2017-01-10T13:55:35Z</startDate>
        <timeZone>
          <code>Europe/Istanbul</code>
          <offset>+02:00</offset>
        </timeZone>
        <occurrenceType>ONCE</occurrenceType>
      </scheduling>
      <notification>
        <active>false</active>
      </notification>
    </WasScanSchedule>
  </data>
</ServiceRequest>
XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScanSchedule>
      <id>141147</id>
      <name><![CDATA[Scheduled Scan With Pool of Internal Scanners]]></name>
      <owner>
        <id>1056860</id>
        <username>user_john</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Doe]]></lastName>
      </owner>
      <active>false</active>
      <multi>false</multi>
      <type>VULNERABILITY</type>
      <target>
        <webApp>
          <id>522065</id>
          <name><![CDATA[My Web Application]]></name>
          <url><![CDATA[http://mywebapp.com]]></url>
        </webApp>
        <scannerTags>
          <set>
            <Tag>
              <id>15415353311147</id>
            </Tag>
          </set>
        </scannerTags>
      </target>
    </WasScanSchedule>
  </data>
</ServiceResponse>
```
<set>
  <Tag>
    <id>8461819</id>
  </Tag>
</set>
</scannerTags>
</target>
<progressiveScanning>DEFAULT</progressiveScanning>
<profile>
  <id>194283</id>
  <name>
    <![CDATA[Initial WAS Options]]>
  </name>
</profile>
<scheduling>
  <startDate>2017-01-10T13:55:00Z</startDate>
  <timeZone>
    <code>Europe/Istanbul</code>
    <offset>+02:00</offset>
  </timeZone>
  <occurrenceType>ONCE</occurrenceType>
  <cancelAfterNHours>10</cancelAfterNHours>
</scheduling>
<notification>
  <active>false</active>
  <reschedule>false</reschedule>
</notification>
<launchedCount>0</launchedCount>
<createdDate>2017-01-12T11:54:07Z</createdDate>
<createdBy>
  <id>1056860</id>
  <username>user_john</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</createdBy>
<updatedDate>2017-01-12T11:54:09Z</updatedDate>
<updatedBy>
  <id>1056860</id>
  <username>user_john</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</updatedBy>
<sendMail>true</sendMail>
<sendOneMail>false</sendOneMail>
</WasScanSchedule>
Sample - Create or update schedule for progressive scanning

The user will be able to set progressiveScanning to ENABLED, DISABLED or DEFAULT, if progressiveScanning is enabled for the subscription. If this option is not set for a new schedule, the value DEFAULT is used.

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/wasscanschedule" 
< file.xml
```
Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
 <data>
  <WasScanSchedule>
   <name><![CDATA[Schedule with enabled progressiveScanning]]></name>
   <type>VULNERABILITY</type>
   <active>false</active>
   <scheduling>
    <startDate>2019-01-30T12:40:27Z</startDate>
    <timeZone>
     <code>Asia/Kolkata</code>
     <offset>+05:30</offset>
    </timeZone>
    <occurrenceType>ONCE</occurrenceType>
   </scheduling>
   <notification>
    <active>true</active>
    <delay>
     <nb>1</nb>
     <scale>DAY</scale>
    </delay>
    <message><![CDATA[A QualysGuard scan is scheduled to start soon.]]></message>
   </notification>
  </WasScanSchedule>
 </data>
</ServiceResponse>
```
<set>
  <WebApp><id>8389207</id></WebApp>
</set>
</webApps>
</scannerAppliance>
</target>
<progressiveScanning>ENABLED</progressiveScanning>
</profile>
</WasScanSchedule>
</data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScanSchedule>
      <id>8831789</id>
      <name>
        <![CDATA[Schedule with enabled progressiveScanning]]>
      </name>
      <owner>
        <id>1056860</id>
        <username>user_john</username>
        <firstName>
          <![CDATA[John]]>
        </firstName>
        <lastName>
          <![CDATA[Doe]]>
        </lastName>
      </owner>
      <active>false</active>
      <multi>false</multi>
      <type>VULNERABILITY</type>
      <target>
        <webApp>
Qualys Web Application Scanning API

Schedules

```xml
<id>8389207</id>
<name><![CDATA[My Web Application]]></name>
<url><![CDATA[http://mywebapp.com]]></url>
</webApp>
<scannerAppliance>
  <type>EXTERNAL</type>
</scannerAppliance>
</target>
<progressiveScanning>ENABLED</progressiveScanning>
<profile>
  <id>53483</id>
  <name><![CDATA[Scan OP]]></name>
</profile>
<scheduling>
  <startDate>2019-01-30T12:40:00Z</startDate>
  <timeZone>
    <code>Asia/Kolkata</code>
    <offset>+05:30</offset>
  </timeZone>
  <occurrenceType>ONCE</occurrenceType>
</scheduling>
<notification>
  <active>true</active>
  <reschedule>false</reschedule>
  <delay>
    <nb>1</nb>
    <scale>DAY</scale>
  </delay>
  <message><![CDATA[A QualysGuard scan is scheduled to start soon.]]></message>
</notification>
<launchedCount>0</launchedCount>
<createdDate>2019-02-26T07:17:22Z</createdDate>
<createdBy>
  <id>1056860</id>
  <username>user_john</username>
  <firstName>
```
If Progressive Scanning is not enabled for the subscription, the progressiveScanning element cannot be provided, otherwise an error will be returned.

XML response (error)

```xml
<?xml version="1.0" encoding="UTF-8"?>
  <responseCode>INVALID_REQUEST</responseCode>
  <responseErrorDetails>
    <errorMessage>Progressive scanning is not enabled in your subscription.</errorMessage>
    <errorResolution>Please check with your account manager to enable this option.</errorResolution>
  </responseErrorDetails>
</ServiceResponse>
```
XSD

<platform API server>/qps/xsd/3.0/was/wasscanschedule.xsd
Create Schedules (Multiple)

/qps/rest/3.0/create/was/wasscanschedule

[POST]

You can schedule a Multi-Scan to run automatically, on a regular basis. This way you always have the most up-to-date security information in your account.

A Multi-Scan allows you to scan any number of web applications. This feature enables you to scan hundreds or even thousands of web applications you may have in your organization with granular insight into what scans are running and which ones are complete.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and ”Create WAS Schedule” permission. The output includes schedules in the user's scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. See Reference: WasScanSchedule for descriptions of these <WasScanSchedule> elements.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>(text) Name of the schedule.</td>
</tr>
<tr>
<td>webApps.id or tags.id</td>
<td>(integer) The web applications to be scanned.</td>
</tr>
<tr>
<td></td>
<td>webApps.id: Specify the web application ID to include it in the scan.</td>
</tr>
<tr>
<td></td>
<td>tags.id: Specify the tag ID associated with</td>
</tr>
</tbody>
</table>
the web applications to be scanned.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>target.tags.excluded.option</td>
<td>(keyword: ALL or ANY) Decides which web applications should be excluded from the scan. ALL: Only the web applications associated with all the specified tags are excluded from the scan. ANY: Only the web applications associated with any of the specified tags are excluded from the scan.</td>
</tr>
<tr>
<td>target.tags.excluded.tagList.Tag.id</td>
<td>(integer) The web applications associated with the tag (identified by the specified tag ID) are excluded from the scan.</td>
</tr>
<tr>
<td>target.tags.included.option</td>
<td>(keyword: ALL or ANY) Decides which web applications should be included in the scan. ALL: Only the web applications associated with all the specified tags are included in the scan. ANY: Only the web applications associated with any of the specified tags are included in the scan.</td>
</tr>
<tr>
<td>target.tags.included.tagList.Tag.id</td>
<td>(integer) The web applications associated with the tag (identified by the specified tag ID) are included in the scan.</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) The scheduled scan type: VULNERABILITY or DISCOVERY.</td>
</tr>
<tr>
<td>profile.id (integer)</td>
<td>(integer) The name of the option profile that includes scan settings. The service provides the profile “Initial WAS Options” and we recommend this to get started.</td>
</tr>
</tbody>
</table>
Example:
```
<profile>
  <name>Initial WAS Options</name>
</profile>
```

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>startDate (date)</td>
<td>(date) The date when the schedule starts in UTC date/time format.</td>
</tr>
<tr>
<td>timeZone (text)</td>
<td>(text) The timezone in which the scan is scheduled in UTC date/time format.</td>
</tr>
<tr>
<td>occurrenceType</td>
<td>(keyword) The frequency of the scheduled scan: ONCE, DAILY, WEEKLY or MONTHLY.</td>
</tr>
<tr>
<td>notification</td>
<td>(boolean) A flag indicating whether email notification is enabled for scheduled scan.</td>
</tr>
<tr>
<td>reschedule</td>
<td>(boolean) Set this flag to reschedule the scan.</td>
</tr>
<tr>
<td>target.authRecordOption</td>
<td>(integer) Defines the authentication record to be used during the scan.</td>
</tr>
<tr>
<td></td>
<td>Set to SPECIFIC - Always use the authRecord passed while launching the scan.</td>
</tr>
<tr>
<td></td>
<td>Set to DEFAULT - Forces the use of the authRecord, if set, else fall back to the one passed in to the API while launching the scan.</td>
</tr>
<tr>
<td>target.profileOption</td>
<td>(keyword: ALL or ANY) Defines the option profile to be used during the scan.</td>
</tr>
<tr>
<td></td>
<td>Set to SPECIFIC - Always use the optionProfile passed while launching the scan.</td>
</tr>
<tr>
<td></td>
<td>Set to DEFAULT - Forces the use of the optionProfile if set, else fall back to the</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>target.scannerOption</td>
<td>(integer) Defines the scanner appliance to be used during the scan.</td>
</tr>
<tr>
<td></td>
<td>Set to SPECIFIC - Always use the scanner passed while launching the scan.</td>
</tr>
<tr>
<td></td>
<td>Set to DEFAULT - Forces the use of the scanner if set, else fall back to the one passed in to the API while launching the scan.</td>
</tr>
<tr>
<td>target.randomizeScan</td>
<td>Allows the service to scan the selected web applications in random order. The randomness will help prevent network slowdowns and/or errors</td>
</tr>
<tr>
<td>target.scannerAppliance.type</td>
<td>(keyword: EXTERNAL or INTERNAL or scannerTags) Type of the scanner appliance to be used for the scan.</td>
</tr>
<tr>
<td>target.scannerAppliance.friendlyName</td>
<td>(text) Name of the scanner appliance being used for the scan.</td>
</tr>
<tr>
<td>cancelOption</td>
<td>set to DEFAULT - Forces the use of the target web app’s cancelScans option if set, else fall back to the one passed in to the API while launching the scan.</td>
</tr>
<tr>
<td></td>
<td>set to SPECIFIC - Always use the cancel scan option passed while launching the scan.</td>
</tr>
<tr>
<td>sendMail</td>
<td>(boolean) Set to false to disable scan complete email notifications.</td>
</tr>
<tr>
<td></td>
<td>Example: <code>&lt;sendMail&gt;false&lt;/sendMail&gt;</code></td>
</tr>
<tr>
<td>sendOneMail</td>
<td>(boolean) Set to true to send one email upon multi-scan completion. Set to false to</td>
</tr>
</tbody>
</table>
send one email upon completion of each individual scan.

Example: <sendOneMail>true</sendOneMail>

Note: sendOneMail is valid only when sendMail = true for a multi-scan (multiple web applications being scanned). If sendMail is set to false, sendOneMail will be ignored.

1 The element target must have at least tags or web applications specified.

2 The element profile (text) is required unless the target has a default option profile.

Sample - Schedule a multi-scan

Let's schedule a multi-scan for two web applications by specifying the ID for the web applications.

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/wasscanschedule"
< file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <WasScanSchedule>
      <name>MultiSchedule_1497351121650</name>
      <type>VULNERABILITY</type>
      <active>false</active>
      <scheduling>
        <cancelAfterNHours>8</cancelAfterNHours>
        <startDate>2017-06-13T21:51:57Z</startDate>
        <timeZone>
          <code>America/Vancouver</code>
          <offset>-07:00</offset>
        </timeZone>
      </scheduling>
    </WasScanSchedule>
  </data>
</ServiceRequest>
```
<occurrenceType>WEEKLY</occurrenceType>
<occurrence>
  <weeklyOccurrence>
    <everyNWeeks>2</everyNWeeks>
    <occurrenceCount>20</occurrenceCount>
    <onDays>
      <WeekDay>SATURDAY</WeekDay>
    </onDays>
  </weeklyOccurrence>
</occurrence>
</scheduling>

<notification>
  <active>true</active>
  <reschedule>true</reschedule>
  <delay>
    <nb>1</nb>
    <scale>DAY</scale>
  </delay>
  <message><![CDATA[A scan is scheduled to start soon.]]></message>
</notification>

<target>
  <webApps>
    <set>
      <WebApp>
        <id>4331923</id>
      </WebApp>
      <WebApp>
        <id>4331924</id>
      </WebApp>
    </set>
  </webApps>
  <webAppAuthRecord>
    <id>583957</id>
  </webAppAuthRecord>
  <scannerAppliance>
    <type>EXTERNAL</type>
  </scannerAppliance>
  <cancelOption>SPECIFIC</cancelOption>
  <authRecordOption>DEFAULT</authRecordOption>
  <profileOption>SPECIFIC</profileOption>
  <scannerOption>DEFAULT</scannerOption>
  <randomizeScan>true</randomizeScan>
  <useDnsOverride>true</useDnsOverride>
</target>
<profile>
  <id>1071133</id>
</profile>
</WasScanSchedule>
</data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScanSchedule>
      <id>697193</id>
      <name><![CDATA[MultiSchedule_1497351121650]]></name>
      <owner>
        <id>2911477</id>
        <username>john_doe</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Doe]]></lastName>
      </owner>
      <active>false</active>
      <multi>true</multi>
      <type>VULNERABILITY</type>
      <target>
        <webApps>
          <list>
            <WebApp>
              <id>4331923</id>
              <url><![CDATA[http://www.example.com/cassium/xss/]]></url>
            </WebApp>
            <WebApp>
              <id>4331924</id>
              <url><![CDATA[http://www.example.com/cassium/xss/]]></url>
            </WebApp>
          </list>
        </webApps>
      </target>
    </WasScanSchedule>
  </data>
</ServiceResponse>
<webApps>
  <webAppAuthRecord>
    <id>583957</id>
    <name><![CDATA[Form and Server]]>149735111801]]></name>
  </webAppAuthRecord>
  <scannerAppliance>
    <type>EXTERNAL</type>
  </scannerAppliance>
  <cancelOption>SPECIFIC</cancelOption>
  <authRecordOption>DEFAULT</authRecordOption>
  <profileOption>SPECIFIC</profileOption>
  <scannerOption>DEFAULT</scannerOption>
  <randomizeScan>true</randomizeScan>
  <useDnsOverride>true</useDnsOverride>
  <target>
    <progressiveScanning>DEFAULT</progressiveScanning>
    <profile>
      <id>1071133</id>
      <name><![CDATA[My Option Profile - with defaults]]>1497351048931]]></name>
    </profile>
    <scheduling>
      <startDate>2017-06-13T21:51:00Z</startDate>
      <timeZone>
        <code>America/Vancouver</code>
        <offset>-07:00</offset>
      </timeZone>
      <occurrenceType>WEEKLY</occurrenceType>
      <occurrence>
        <weeklyOccurrence>
          <everyNWeeks>2</everyNWeeks>
          <onDays>
            <WeekDay>SATURDAY</WeekDay>
          </onDays>
          <occurrenceCount>20</occurrenceCount>
        </weeklyOccurrence>
      </occurrence>
      <cancelAfterNHours>8</cancelAfterNHours>
    </scheduling>
    <notification>
      <active>true</active>
      <reschedule>true</reschedule>
      <delay>
        <nb>1</nb>
      </delay>
    </notification>
  </target>
</webApps>
Sample - Schedule a multi-scan with some criteria

Let’s schedule a multi-scan for all the web applications that are associated with the tags specified in the request filter and configure scan completion notification to be sent after completion of the multi-scan.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @"https://qualysapi.qualys.com/qps/rest/3.0/create/was/wasscanschedule" < file.xml

Note: “file.xml” contains the request POST data.

Request POST data

<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
<data>
  <WasScanSchedule>
    <name>SampleSchedule</name>
    <type>VULNERABILITY</type>
    <active>false</active>
    <scheduling>
      <cancelAfterNHours>8</cancelAfterNHours>
      <startDate>2017-06-13T21:51:57Z</startDate>
      <timeZone>
        <code>America/Vancouver</code>
        <offset>-07:00</offset>
      </timeZone>
      <occurrenceType>WEEKLY</occurrenceType>
      <occurrence>
        <weeklyOccurrence>
          <everyNWeeks>2</everyNWeeks>
          <occurrenceCount>20</occurrenceCount>
          <onDays>
            <WeekDay>SATURDAY</WeekDay>
          </onDays>
        </weeklyOccurrence>
      </occurrence>
    </scheduling>
    <notification>
      <active>true</active>
      <reschedule>true</reschedule>
      <delay>
        <nb>1</nb>
        <scale>DAY</scale>
      </delay>
      <message><![CDATA[A scan is scheduled to start soon.]]></message>
    </notification>
    <target>
      <tags>
        <included/>
        <option>ALL</option>
        <tagList>
          <set>
            <Tag>
              <id>12017424</id>
            </Tag>
            <Tag>
              <id>12017228</id>
            </Tag>
          </set>
        </tagList>
      </tags>
    </target>
  </WasScanSchedule>
</data>
Qualys Web Application Scanning API

Schedules

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScanSchedule>
      <webAppAuthRecord>
        <id>583957</id>
      </webAppAuthRecord>
      <scannerAppliance>
        <type>EXTERNAL</type>
      </scannerAppliance>
      <cancelOption>SPECIFIC</cancelOption>
      <authRecordOption>DEFAULT</authRecordOption>
      <profileOption>SPECIFIC</profileOption>
      <scannerOption>DEFAULT</scannerOption>
      <randomizeScan>true</randomizeScan>
      <useDnsOverride>true</useDnsOverride>
      <profile>
        <id>1071133</id>
      </profile>
      <sendOneMail>false</sendOneMail>
    </WasScanSchedule>
  </data>
</ServiceRequest>
```
<id>699795</id>
<name>
  <![CDATA[Schedule a multi scan for multiple web apps]]></name>
<owner>
  <id>2911477</id>
  <username>john_doe</username>
  <firstName>John</firstName>
  <lastName>Doe</lastName>
</owner>
<active>false</active>
<multi>true</multi>
<type>VULNERABILITY</type>
<target>
  <tags>
    <included>
      <option>ANY</option>
      <tagList>
        <list>
          <Tag>
            <id>12017424</id>
          </Tag>
          <Tag>
            <id>12017228</id>
          </Tag>
        </list>
      </tagList>
    </included>
    <excluded>
      <option>ANY</option>
      <tagList>
        <list>
          <Tag>
            <id>12017228</id>
          </Tag>
        </list>
      </tagList>
    </excluded>
  </tags>
  <webAppAuthRecord>
    <id>583957</id>
    <name>
      <![CDATA[Form and Server 149735111801]]>
    </name>
  </webAppAuthRecord>
</target>
Qualys Web Application Scanning API

Schedules

```xml
<webAppAuthRecord>
  <scannerAppliance>
    <type>EXTERNAL</type>
  </scannerAppliance>
  <cancelOption>SPECIFIC</cancelOption>
  <authRecordOption>DEFAULT</authRecordOption>
  <profileOption>SPECIFIC</profileOption>
  <scannerOption>DEFAULT</scannerOption>
  <randomizeScan>true</randomizeScan>
  <useDnsOverride>true</useDnsOverride>
</target>
  <progressiveScanning>DEFAULT</progressiveScanning>
  <profile>
    <id>1071133</id>
    <name><![CDATA[My Option Profile - with defaults 1497351048931]]></name>
  </profile>
  <scheduling>
    <startDate>2017-06-13T21:51:00Z</startDate>
    <timeZone>
      <code>America/Vancouver</code>
      <offset>-07:00</offset>
    </timeZone>
    <occurrenceType>WEEKLY</occurrenceType>
    <occurrence>
      <weeklyOccurrence>
        <everyNWeeks>2</everyNWeeks>
        <onDays>
          <WeekDay>SATURDAY</WeekDay>
        </onDays>
        <occurrenceCount>20</occurrenceCount>
      </weeklyOccurrence>
    </occurrence>
    <cancelAfterNHours>8</cancelAfterNHours>
  </scheduling>
  <notification>
    <active>true</active>
    <reschedule>true</reschedule>
    <delay>
      <nb>1</nb>
      <scale>DAY</scale>
    </delay>
  </message>
```
A scan is scheduled to start soon.

XSD

<platform_API_server>/qps/xsd/3.0/wasscanschedule.xsd
Update Schedule

/qps/rest/3.0/update/was/wasscanschedule/<id>

[POST]

Update a scheduled scan on a web application which is in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Edit WAS Schedule”. Scan target must be within the user’s scope.

Input Parameters

The “id” (integer) element and the data to be updated in the schedule are required where “id” identifies a schedule. See Reference: WasScanSchedule for descriptions of all of the <WasScanSchedule> elements.

Click here for available operators

Sample - Update a schedule by enabling notification for the same

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/update/was/wasscanschedule/1688" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <data>
    <WasScanSchedule>
      <notification>
        <active>true</active>
        <delay>
          <nb>4</nb>
          <scale>DAY</scale>
        </delay>
      </notification>
    </WasScanSchedule>
  </data>
</ServiceRequest>
<recipients>
  <set>
    <EmailAddress><![CDATA[name1@company.com]]></EmailAddress>
    <EmailAddress><![CDATA[name2@company.com]]></EmailAddress>
    <EmailAddress><![CDATA[name3@company.com]]></EmailAddress>
  </set>
</recipients>
<message><![CDATA[The schedule notification message]]></message>
</notification>
</WasScanSchedule>
</data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScanSchedule>
      <id>1688</id>
    </WasScanSchedule>
  </data>
</ServiceResponse>

Sample - Update notification to reschedule

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/update/was/wasscanschedule/171425669" < file.xml
```

Note: “file.xml” contains the request POST data.

Request POST data

```
<ServiceRequest>
```
 Qualys Web Application Scanning API

Schedules

Sample - Update schedule to configure scan completion notification

**API request**

```
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>

<data>
  <WasScanSchedule>
    <name><![CDATA[Update Notification to enable Reschedule]]></name>
    <notification>
      <active>true</active>
      <reschedule>true</reschedule>
      <delay>
        <nb>1</nb>
        <scale>DAY</scale>
      </delay>
      <message><![CDATA[A Qualys scan is scheduled to start soon.]]></message>
    </notification>
  </WasScanSchedule>
</data>
</ServiceRequest>
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScanSchedule>
      <id>171425669</id>
    </WasScanSchedule>
  </data>
</ServiceResponse>
```
Qualys Web Application Scanning API

Schedules

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscanschedule.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WasScanSchedule>
            <id>171425669</id>
        </WasScanSchedule>
    </data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/wasscanschedule.xsd
Activate an Existing Schedule

/qps/rest/3.0/update/was/wasscanschedule/<id>

/qps/rest/3.0/activate/was/wasscanschedule/<id>

/qps/rest/3.0/activate/was/wasscanschedule/<filters>

[POST]

Activate one or more scheduled scans on web applications which are in the user's scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Edit WAS Schedule”. Scan target must be within the user's scope.

Input Parameters

The “id” (integer) element and the data to be updated in the schedule are required where “id” identifies a schedule. When multiple elements are specified, parameters are combined using a logical AND. See Reference: WasScanSchedule for descriptions of all of the <WasScanSchedule> elements.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The schedule ID. This element is assigned by the service and is required for a certain type of request.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The user-defined schedule name (maximum 256 characters).</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the schedule was created in WAS, in UTC date/time format.</td>
</tr>
</tbody>
</table>
updatedDate (date) The date when the schedule was created in WAS, in UTC date/time format.

type (keyword) The scheduled scan type: VULNERABILITY or DISCOVERY.

webApp.name (text) The name of the web application being scanned.

webApp.id (integer) The ID of the web application being scanned.

owner.id (text) ID associated with the owner who created the schedule.

active (boolean) Indicates whether the schedule is active or not. True indicates active schedule.

invalid (boolean) Indicates the schedule is invalid. The web application to which the schedule was applied is deleted and hence the schedule is invalid.

Sample - Activate a schedule

API request

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-"https://qualysapi.qualys.com/qps/rest/3.0/activate/was/wasscanschedule/1688" < file.xml
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" 
0/was/wasscanschedule.xsd">
   <responseCode>SUCCESS</responseCode>
   <count>1</count>
   <data>
      <WasScanSchedule>
```
Sample - Activate Multi Schedule using filters

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/activate/was/wasscanschedule" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">Schedule</Criteria>
  </filters>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
  <responseCode>SUCCESS</responseCode>
  <count>2</count>
  <data>
    <WasScanSchedule>
      <id>701147</id>
    </WasScanSchedule>
    <WasScanSchedule>
      <id>701946</id>
    </WasScanSchedule>
  </data>
</ServiceResponse>

XSD
Qualys Web Application Scanning API

Schedules

<platform API server>/qps/xsd/3.0/was/wasscanschedule.xsd
Deactivate Schedule

/qps/rest/3.0/update/was/wasscanschedule/<id>
/qps/rest/3.0/deactivate/was/wasscanschedule/<id>
/qps/rest/3.0/deactivate/was/wasscanschedule/<filters>

[POST]

Deactivate one or more scheduled scans on web applications which are in the user's scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Edit WAS Schedule”. Scan target must be within the user's scope.

Input Parameters

The “id” (integer) element and the data to be updated in the schedule are required where “id” identifies a schedule. When multiple elements are specified, parameters are combined using a logical AND. See Reference: WasScanSchedule for descriptions of all of the <WasScanSchedule> elements.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The schedule ID. This element is assigned by the service and is required for a certain type of request.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The user-defined schedule name (maximum 256 characters).</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the schedule was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>Field</td>
<td>Type</td>
</tr>
<tr>
<td>-----------</td>
<td>------------</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date)</td>
</tr>
<tr>
<td>type</td>
<td>(keyword)</td>
</tr>
<tr>
<td>webApp.id</td>
<td>(integer)</td>
</tr>
<tr>
<td>webApp.name</td>
<td>(text)</td>
</tr>
<tr>
<td>owner.id</td>
<td>(integer)</td>
</tr>
<tr>
<td>active</td>
<td>(boolean)</td>
</tr>
<tr>
<td>invalid</td>
<td>(boolean)</td>
</tr>
</tbody>
</table>

Sample - Deactivate a schedule

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @"https://qualysapi.qualys.com/qps/rest/3.0/deactivate/was/wasscanschedule/1688" < file.xml

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScanSchedule>
      <!-- Data here -->
    </WasScanSchedule>
  </data>
</ServiceResponse>
```
Sample - Deactivate Multi Schedule using filters

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-"https://qualysapi.qualys.com/qps/rest/3.0/deactivate/was/wasscanschedule" file.xml

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
    <filters>
        <Criteria field="name" operator="CONTAINS">Schedule</Criteria>
    </filters>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
    <responseCode>SUCCESS</responseCode>
    <count>2</count>
    <data>
        <WasScanSchedule>
            <id>701147</id>
        </WasScanSchedule>
        <WasScanSchedule>
            <id>701946</id>
        </WasScanSchedule>
    </data>
</ServiceResponse>
```

**XSD**
Qualys Web Application Scanning API

Schedules

<platform API server>/qps/xsd/3.0/was/wasscanschedule.xsd
Delete Schedule

/qps/rest/3.0/delete/was/wasscanschedule/<id>
/qps/rest/3.0/delete/was/wasscanschedule/<filters>

[POST]

Delete scheduled scans on web applications which are in the user's scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and Delete WAS Schedule”. Scan target must be within the user's scope.

Input Parameters

The “id” (integer) element and the data to be updated in the schedule are required where “id” identifies a schedule. When multiple elements are specified, parameters are combined using a logical AND. See Reference: <WasScanSchedule> for descriptions of all of the <WasScanSchedule> elements.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The schedule ID. This element is assigned by the service and is required for a certain type of request.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The user-defined schedule name (maximum 256 characters).</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the schedule was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date when the schedule was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>Field</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) The scheduled scan type: VULNERABILITY or DISCOVERY.</td>
</tr>
<tr>
<td>webApp.name</td>
<td>(text) The name of the web application being scanned.</td>
</tr>
<tr>
<td>webApp.id</td>
<td>(integer) The ID of the web application being scanned.</td>
</tr>
<tr>
<td>owner.id</td>
<td>(integer) ID associated with the owner who created the schedule.</td>
</tr>
<tr>
<td>active</td>
<td>(boolean) Indicates whether the schedule is active or not. True indicates active schedule.</td>
</tr>
<tr>
<td>invalid</td>
<td>(boolean) Indicates the schedule is invalid. The web application to which the schedule was applied is deleted and hence the schedule is invalid.</td>
</tr>
</tbody>
</table>

Sample - Delete single schedule

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/delete/was/wasscanschedule/1846"
```

Note: “file.xml” contains the request POST data.

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.cm/qps/xsd/3.0/was/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScanSchedule>
      <id>1846</id>
    </WasScanSchedule>
  </data>
</ServiceResponse>
```
Sample - Delete schedules matching criteria

API request

```shell
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @--
"https://qualysapi.qualys.com/qps/rest/3.0/delete/was/wasscanschedule/"
" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```xml
<ServiceRequest>
  <filters>
    <Criteria field="active" operator="EQUALS">false</Criteria>
    <Criteria field="name" operator="CONTAINS">WEEKLY -</Criteria>
  </filters>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>2</count>
  <data>
    <WasScanSchedule>
      <id>1747</id>
    </WasScanSchedule>
    <WasScanSchedule>
      <id>1768</id>
    </WasScanSchedule>
  </data>
</ServiceResponse>
```

XSD

```xml
<platform_API_server>/qps/xsd/3.0/was/wasscanschedule.xsd
```
Download Schedule

/qps/rest/3.0/download/was/wasscanschedule/<id>
/qps/rest/3.0/download/was/wasscanschedule/<filters>

[POST]

Download scheduled scans on a web applications, which are in the user’s scope, to iCalendar format and then import them into your favorite calendar application so you can access your schedules on the go. You can import your schedules into several calendars including Microsoft Outlook, Google Calendar and Apple iCal.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The schedule must be within the user’s scope.

Input Parameters

The “id” (integer) element and the data to be updated in the schedule are required where “id” identifies a schedule. When multiple elements are specified, parameters are combined using a logical AND. See Reference: WasScanSchedule for descriptions of all of the <WasScanSchedule> elements.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The schedule ID. This element is assigned by the service and is required for a certain type of request.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The user-defined schedule name (maximum 256 characters).</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the schedule was created in WAS, in UTC date/time format.</td>
</tr>
</tbody>
</table>
updatedDate (date) The date when the schedule was created in WAS, in UTC date/time format.

type (keyword) The scheduled scan type: VULNERABILITY or DISCOVERY.

webApp.name (text) The name of the web application being scanned.

webApp.id (integer) The ID of the web application being scanned.

owner.id (integer) ID associated with the owner who created the schedule.

active (boolean) Indicates whether the schedule is active or not. True indicates active schedule.

invalid (boolean) Indicates the schedule is invalid. The web application to which the schedule was applied is deleted and hence the schedule is invalid.

Sample - Download a single schedule

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/download/was/wasscanschedule/1846"
Note: “file.xml” contains the request POST data.

XML response

BEGIN:VCALENDAR
PRODID:-//Qualys Inc//WAS Product//EN
VERSION:2.0
CALSCALE:GREGORIAN
METHOD:PUBLISH
BEGIN:VTIMEZONE
TZID:America/Boise
TZURL:http://tzurl.org/zoneinfo/America/Boise
X-LIC-LOCATION:America/Boise
BEGIN:DAYLIGHT
TZOFFSETFROM:-0700
TZOFFSETTO:-0600
TZNAME:MDT
DTSTART:20070311T020000
RRULE:FREQ=YEARLY;BYMONTH=3;BYDAY=2SU
END:DAYLIGHT
BEGIN:STANDARD
TZOFFSETFROM:-0600
TZOFFSETTO:-0700
TZNAME:MST
DTSTART:20071104T020000
RRULE:FREQ=YEARLY;BYMONTH=11;BYDAY=1SU
END:STANDARD
BEGIN:STANDARD
TZOFFSETFROM:-074449
TZOFFSETTO:-0800
TZNAME:PST
DTSTART:18831118T121511
END:STANDARD
BEGIN:DAYLIGHT
... 
CREATED:20181128T204534Z
LAST-MODIFIED:20181128T210007Z
SEQUENCE:0
STATUS:CONFIRMED
TRANSP:TRANSPARENT
END:VEVENT
END:VCALENDAR

XSD

<platform API server>/qps/xsd/3.0/was/wasscanschedule.xsd
Reference: Schedule

The `<WasScanSchedule>` element includes sub elements used to define a schedule. A reference of these elements is provided below. An asterisk (*) indicates a complex element.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The schedule ID. This element is assigned by the service and is required for a certain type of request.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The user-defined schedule name (maximum 256 characters).</td>
</tr>
<tr>
<td>owner.id</td>
<td>(integer) ID associated with the owner who created the schedule.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the schedule was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date when the schedule was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) The scheduled scan type: VULNERABILITY or DISCOVERY.</td>
</tr>
<tr>
<td>webApp.name</td>
<td>(text) The name of the web application being scanned.</td>
</tr>
<tr>
<td>webApp.id</td>
<td>(integer) The ID of the web application being scanned.</td>
</tr>
<tr>
<td>webApp.tags (with operator=&quot;NONE&quot;)</td>
<td>Tags associated with the web application being scanned.</td>
</tr>
<tr>
<td>webApp.tags.id</td>
<td>(integer) ID of the tag applied to the web application being scanned.</td>
</tr>
</tbody>
</table>
### Schedules

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>invalid</td>
<td>(boolean) Indicates the schedule is invalid. The web application to which the schedule was applied is deleted and hence the schedule is invalid.</td>
</tr>
<tr>
<td>lastScan (with operation=&quot;NONE&quot;)</td>
<td>(boolean) Indicates if the last scan was performed or not. True indicates that the last scan was performed.</td>
</tr>
<tr>
<td>lastScan.launchedDate</td>
<td>(date) Date when the last scan was launched on the web application, in UTC date/time format.</td>
</tr>
<tr>
<td>lastScan.status</td>
<td>(keyword) Scan status reported by last web application scan: SUBMITTED, RUNNING, FINISHED, TIME_LIMIT_EXCEEDED, SCAN_NOT_LAUNCHED, SCANNER_NOT_AVAILABLE, ERROR, CANCELED)</td>
</tr>
<tr>
<td>multi (Boolean)</td>
<td>(boolean) Indicates if the scheduled scan is single scan or multiple scan.</td>
</tr>
</tbody>
</table>
The `<WasScanSchedule>` element includes sub elements used to define a web application scan schedule. A reference of these elements is provided below. An asterisk * indicates a complex element.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The schedule ID. This element is assigned by the service and is required for a certain type of request (details, activate, deactivate).</td>
</tr>
<tr>
<td>owner</td>
<td>(text) The user who owns the schedule. User properties include user ID, user login, first and last name.</td>
</tr>
<tr>
<td>active (Boolean)</td>
<td>The schedule is active: true or false.</td>
</tr>
<tr>
<td>launchedCount (integer)</td>
<td>The number of times the scan has been launched.</td>
</tr>
<tr>
<td>nextLaunchDate (date)</td>
<td>The next launch date and time in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
<tr>
<td>target* (for single web application)</td>
<td>(text) The target of the scan. <code>&lt;webApp&gt;</code> is the target web application.</td>
</tr>
</tbody>
</table>
INTERNAL for a scanner appliance, or EXTERNAL for external scanners or scannerTags for assigning multiple scanner appliances grouped by asset tag. If the type is INTERNAL, friendlyName (text) is the user-defined appliance name.

<cancelOption> set to DEFAULT - Forces the use of the target web app’s cancelScans option if set, else fall back to the one passed in to the API with the schedule settings.

<cancelOption> set to SPECIFIC - Always use the cancel scan option passed with the schedule settings.

Example: target.webApp is required
<target>
  <webApp>
    <id>324265</id>
    <name><![CDATA[Merchant Site]]></name>
    <url><![CDATA[http://url]]></url>
  </webApp>
  <scannerAppliance>
    <type>INTERNAL</type>
    <friendlyName><![CDATA[name]]></friendlyName>
  </scannerAppliance>
  <cancelOption>SPECIFIC</cancelOption>
</target>

<table>
<thead>
<tr>
<th>target* (for multiple web application)</th>
<th>&lt;cancelOption&gt; set to DEFAULT - Forces the use of the target web app’s cancelScans option if set, else fall back to the one passed in to the API while launching the scan.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;cancelOption&gt; set to SPECIFIC - Always use the cancel scan option passed while launching the scan.</td>
</tr>
<tr>
<td></td>
<td>&lt;target.authRecordOption&gt; set to SPECIFIC - Always use the authRecord passed while launching the scan.</td>
</tr>
<tr>
<td></td>
<td>&lt;target.authRecordOption&gt; set to DEFAULT - Forces the use of the authRecord, if set, else fall back to the one passed in to the API while launching the scan.</td>
</tr>
</tbody>
</table>
<target.profileOption> set to SPECIFIC-Always use the optionProfile passed while launching the scan

<target.profileOption> set to DEFAULT-Forces the use of the optionProfile if set, else fall back to the one passed in to the API while launching the scan.

<target.scannerOption> set to SPECIFIC-Always use the scanner passed while launching the scan

<target.scannerOption> set to DEFAULT-Forces the use of the scanner if set, else fall back to the one passed in to the API while launching the scan.

<target.randomizeScan> (Boolean) - Set to true to scan the selected web applications in random order. Set to false to scan the selected web application in sequential order.

target.tags (For MultiScan)--

---target.tags.included.option(ALL/ANY) is required,

---target.tags.included.tagList is required, only <set> is allowed for target.tags.included.tagList.

--- target.tags.included.tagList.set.Tag.id is required and should be valid

---Only target.tags.exclusive is not allowed, it must be with target.tags.inclusive

---If target.tags.excluded is present, all the above rules are applicable to it

Example: Either target.webApps or target.tags is required and these are mutually exclusive.

target.webApps (For MultiScan)-

Only <set> is allowed for target.webApps

<webApps>
  <set>
    <WebApp>
      <id>4330527</id>
    </WebApp>
  </set>
</webApps>
profile.id  (integer) The name of the option profile that includes scan settings. The service provides the profile “Initial WAS Options” and we recommend this to get started.

Example:
<profile>
  <name>Initial WAS Options</name>
</profile>

proxy.id  (integer) The proxy for scanning the target web application.

Example:
<proxy>
  <id>12345</id>
</proxy>
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>dnsOverride.id</td>
<td>(integer) The DNS override record for scanning the target web application.</td>
</tr>
<tr>
<td>Example:</td>
<td>&lt;dnsOverride&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;id&gt;67890&lt;/id&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/dnsOverride&gt;</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The schedule creation date and time in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
<tr>
<td>createdBy*</td>
<td>The user who created the schedule.</td>
</tr>
<tr>
<td>Example:</td>
<td>&lt;createdBy&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;id&gt;123056&lt;/id&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;username&gt;username&lt;/username&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;firstName&gt;&lt;![CDATA[John]]&gt;&lt;/firstName&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;lastName&gt;&lt;![CDATA[Smith]]&gt;&lt;/lastName&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/createdBy&gt;</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date and time of the most recent update of the schedule in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
<tr>
<td>updatedBy*</td>
<td>The user who updated the schedule.</td>
</tr>
<tr>
<td>Example:</td>
<td>&lt;updatedBy&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;id&gt;123056&lt;/id&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;username&gt;username&lt;/username&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;firstName&gt;&lt;![CDATA[John]]&gt;&lt;/firstName&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;lastName&gt;&lt;![CDATA[Smith]]&gt;&lt;/lastName&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/updatedBy&gt;</td>
</tr>
<tr>
<td>scheduling*</td>
<td>The schedule settings. <code>&lt;cancelAfterNHours&gt;</code> is the number of hours after which the scan task will be cancelled. <code>&lt;cancelTime&gt;</code> is the time at which a scan will be cancelled. <code>&lt;startDate&gt;</code> is the date and time the scan will begin. <code>&lt;timeZone&gt;</code> is the time zone that applies to the schedule. <code>&lt;occurrence&gt;</code> defines frequency of the task: SINGLE, DAILY, WEEKLY or MONTHLY.</td>
</tr>
</tbody>
</table>
Example of weekly scan with the `<cancelAfterNHours>` option:

```xml
<scheduling>
  <cancelAfterNHours>11</cancelAfterNHours>
  <startDate>2017-02-02T10:10:00Z</startDate>
  <timeZone>
    <code>Europe/Paris</code>
  </timeZone>
  <occurrenceType>WEEKLY</occurrenceType>
  <occurrence>
    <weeklyOccurrence>
      <everyNWeeks>2</everyNWeeks>
      <occurrenceCount>20</occurrenceCount>
      <onDays>
        <WeekDay>MONDAY</WeekDay>
        <WeekDay>SATURDAY</WeekDay>
        <WeekDay>SUNDAY</WeekDay>
      </onDays>
    </weeklyOccurrence>
  </occurrence>
</scheduling>
```

Example of single occurrence scan with the `<cancelTime>` option:

```xml
<scheduling>
  <startDate>2017-02-02T10:10:00Z</startDate>
  <timeZone>
    <code>Europe/Paris</code>
  </timeZone>
  <occurrenceType>ONCE</occurrenceType>
  <occurrence>
    <cancelTime>11:15</cancelTime>
  </occurrence>
</scheduling>
```

**notification**

The notification settings. `<active>` indicates whether notification is enabled. `<delay>` indicates when the notification will be sent as number of days, hours, or minutes before the scan. `<scale>` indicates the delay unit: DAY, HOUR or MINUTE. `<recipients>` identifies the email addresses of the notification recipients.
<message> is the text of the notification message.

Example:

```xml
<notification>
    <active>true</active>
    <delay>
        <nb>1</nb>
        <scale>DAY</scale>
    </delay>
    <recipients>
        <set>
            <EmailAddress><![CDATA[1@a.com]]></EmailAddress>
            <EmailAddress><![CDATA[2@a.com]]></EmailAddress>
        </set>
    </recipients>
    <message><![CDATA[The message]]></message>
</notification>
```

**sendMail**

(boolean) Set to false to disable scan complete email notifications.

Example: `<sendMail>false</sendMail>`

**sendOneMail**

( boolean ) Set to true to send one email upon multi-scan completion. Set to false to send one email upon completion of each individual scan.

Example: `<sendOneMail>true</sendOneMail>`

Note: sendOneMail is valid only when sendMail = true for a multi-scan (multiple web applications being scanned). If sendMail is set to false, sendOneMail will be ignored.
Reports

Report Count

/qps/rest/3.0/count/was/report

[GET] [POST]

Returns the total number of reports in the user’s scope.

Permissions required User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes reports in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. See Reference: Report for descriptions of these <Report> elements.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The report ID. This element is assigned by the service and is required for a certain type of request (details, status, update, delete, send or download).</td>
</tr>
<tr>
<td>name</td>
<td>(text) A report name (maximum 256 characters). Applies to all reports.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) ID of the tag associated with the report.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Name of the tag associated with the report.</td>
</tr>
<tr>
<td>creationDate</td>
<td>(date) The date when the report was created in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API

Reports

<table>
<thead>
<tr>
<th>type</th>
<th>(keyword) The report type, one of: WAS_SCAN_REPORT, WAS_WEBAPP_REPORT, WAS_SCORECARD_REPORT, WAS_CATALOG_REPORT, DATALIST_REPORT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>format</td>
<td>(keyword) The format of the report, one of: HTML_ZIPPED, HTML_BASE64, PDF, PDF_ENCRYPTED, POWERPOINT, CSV, CSV_V2, XML, WORD.</td>
</tr>
<tr>
<td>status</td>
<td>(keyword) The status of the report: RUNNING, ERROR or COMPLETE.</td>
</tr>
</tbody>
</table>

Sample - Get count of reports in user’s account

Return the number (count) of all reports in the user’s scope.

**API request**

curl -u "USERNAME:PASSWORD" https://qualysapi.qualys.com/qps/rest/3.0/count/was/report"

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse>
  <count>12</count>
  <responseCode>SUCCESS</responseCode>
</ServiceResponse>
```

Sample - Get count of reports with a criteria

Return the number (count) reports with an ID that includes 1302 and 1303.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/count/was/report" <
file.xml
Note: “file.xml” contains the request POST data.

Request POST data
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="IN">1302, 1303</Criteria>
  </filters>
</ServiceRequest>

XML response
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/report.xsd"
<ServiceResponse>
  <count>1</count>
  <responseCode>SUCCESS</responseCode>
</ServiceResponse>

XSD
<platform_API_server>/qps/xsd/3.0/was/report.xsd
Search Report

/qps/rest/3.0/search/was/report

[POST]

Returns a list of reports which are in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes reports in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. See Reference: Report for descriptions of these <Report> elements

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The report ID. This element is assigned by the service and is required for a certain type of request (details, status, update, delete, send or download).</td>
</tr>
<tr>
<td>name</td>
<td>(text) A report name (maximum 256 characters). Applies to all reports.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) ID of the tag associated with the report.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Name of the tag associated with the report.</td>
</tr>
<tr>
<td>creationDate</td>
<td>(date) The date when the report was created in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) The report type, one of: WAS_SCAN_REPORT, WAS_WEBAPP_REPORT, ...</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API

Reports

WAS_SCORECARD_REPORT, WAS_CATALOG_REPORT, DATALIST_REPORT.

| format | (keyword) The format of the report, one of: HTML_ZIPPED, HTML_BASE64, PDF, PDF_ENCRYPTED, POWERPOINT, CSV, CSV_V2, XML, WORD. |
| status | (keyword) The status of the report: RUNNING, ERROR or COMPLETE. |

Sample - Search reports (no criteria)

Let us view a list of all reports in the user’s scope.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" "https://qualysapi.qualys.com/qps/rest/3.0/search/was/report"

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse>
  <count>3</count>
  <data>
   <list>
    <Report>
     <id>1393</id>
     <name><![CDATA[Web Application Report 1]]></name>
     <type>WAS_WEBAPP_REPORT</type>
     <format>PDF</format>
     <status>COMPLETE</status>
     <size>2244667</size>
     <creationDate>2017-11-25T10:20:06Z</creationDate>
     <tags>
      <count>0</count>
     </tags>
     <owner>
      <id>123056</id>
     </owner>
    </Report>
   </list>
  </data>
</ServiceResponse>
```
Qualys Web Application Scanning API

Reports

<username>username</username>
<firstName><![CDATA[John]]></firstName>
<lastName><![CDATA[Smith]]></lastName>
</owner>
</Report>
<Report>
  <id>1394</id>
  <name><![CDATA[Web Application Report 2]]></name>
  <type>WAS_WEBAPP_REPORT</type>
  <format>PDF</format>
  <status>COMPLETE</status>
  <size>124578</size>
  <creationDate>2017-11-25T10:21:25Z</creationDate>
  <tags>
    <count>0</count>
  </tags>
  <owner>
    <id>123056</id>
    <username>username</username>
    <firstName><![CDATA[John]]></firstName>
    <lastName><![CDATA[Smith]]></lastName>
  </owner>
</Report>

<Report>
  <id>1282</id>
  <name><![CDATA[Web Application Report 3]]></name>
  <type>WAS_WEBAPP_REPORT</type>
  <format>PDF</format>
  <status>COMPLETE</status>
  <size>12341234</size>
  <creationDate>2017-11-24T00:00:00Z</creationDate>
  <tags>
    <count>0</count>
  </tags>
  <owner>
    <id>123056</id>
    <username>username</username>
    <firstName><![CDATA[John]]></firstName>
    <lastName><![CDATA[Smith]]></lastName>
  </owner>
</Report>
</list>
</data>
<isDone>true</isDone>
<responseCode>SUCCESS</responseCode>
Sample - Search for a particular report

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @"https://qualysapi.qualys.com/qps/rest/3.0/search/was/report" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <filters>
    <Criteria field="tags.id" operator="EQUALS">99511</Criteria>
  </filters>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
  <ServiceResponse>
    <count>1</count>
    <data>
      <list>
        <Report>
          <id>1302</id>
          <name><![CDATA[Web Application Report 2]]></name>
          <type>WAS_WEBAPP_REPORT</type>
          <format>PDF_ENCRYPTED</format>
          <status>COMPLETE</status>
          <size>2244667</size>
          <creationDate>2017-11-24T00:00:00Z</creationDate>
          <tags>
            <count>1</count>
          </tags>
        </Report>
      </list>
    </data>
  </ServiceResponse>
</ServiceResponse>
<count>12</count>
</distributionList>
<owner>
  <id>123056</id>
  <username>username</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Smith]]></lastName>
</owner>
</Report>
</list>
</data>
<isDone>true</isDone>
<responseCode>SUCCESS</responseCode>
<responseErrorDetails>
  <internalErrorCodeId>0</internalErrorCodeId>
</responseErrorDetails>
</ServiceResponse>

XSD

$qps/xsd/3.0/was/report.xsd$
Get Report Details

/qps/rest/3.0/get/was/report/<id>

[GET]

View details for a report which is in the user's scope. Want to find a report ID to use as input? See Search reports.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes reports in the user’s scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies the report.

Click here for available operators

Sample - View details of a report

Let us view details for a report with ID 1302.

API request

```
curl -n -u "USERNAME:PASSWORD" 
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/report/1302"
```

XML response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/report.xsd"
<ServiceResponse>
  <count>1</count>
  <data>
    <Report>
      <id>1302</id>
      <name><![CDATA[Web Application Report 2]]></name>
      <type>WAS_WEBAPP_REPORT</type>
  </Report>
</ServiceResponse>
```
<format>PDF_ENCRYPTED</format>
<status>COMPLETE</status>
<size>2244667</size>
<creationDate>2018-11-24T00:00:00Z</creationDate>
<lastDownloadDate>2018-11-09T00:00:00Z</lastDownloadDate>
<downloadCount>1</downloadCount>
<tags>
  <count>2</count>
  <list>
    <Tag>
      <id>99509</id>
      <name><![CDATA[Tag 1]]></name>
    </Tag>
    <Tag>
      <id>99510</id>
      <name><![CDATA[Tag 2]]></name>
    </Tag>
  </list>
</tags>
<distributionList>
  <count>2</count>
  <list>
    <EmailAddress><![CDATA[email1@company.com]]></EmailAddress>
    <EmailAddress><![CDATA[email2@company.com]]></EmailAddress>
  </list>
</distributionList>
<owner>
  <id>123056</id>
  <username>username</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Smith]]></lastName>
</owner>
</Report>
</data>
<responseCode>SUCCESS</responseCode>
</ServiceResponse>

**XSD**

<platform_API_server>/qps/xsd/3.0/was/report.xsd
Get Report Status

/qps/rest/3.0/status/was/report/<id>

[GET]

Retrieve the status of a report which is in the user’s scope. Want to find a report ID to use as input? See Search reports.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes reports in the user’s scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies the report.

Click here for available operators

Sample - Get report status of a particular report

Let us view details for report with ID 1302.

API request

curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/status/was/report/1302"

XML response

<?xml version="1.0" encoding="UTF-8"?>
  <count>1</count>
  <data>
    <Report>
      <id>1302</id>
      <status>COMPLETE</status>
    </Report>
  </data>
</ServiceResponse>
Qualys Web Application Scanning API

Reports

XSD

<platform_API_server>/qps/xsd/3.0/was/report.xsd
Download Report

/qps/rest/3.0/download/was/report/<id>

[GET]

Download a report which is in the user’s scope. Want to find a report ID to use as input? See Search reports.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes reports in the user’s scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies the report.

Click here for available operators

Sample - Download a report

Let us view download a report with ID 1302.

API request

```
curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/download/was/report/1302"
```

XML response

Report ID 1302 will be downloaded in the format in which it was generated.

XSD

```
<platform API server>/qps/xsd/3.0/was/report.xsd
```
Send Encrypted PDF Report

/qps/rest/3.0/send/was/report/<id>

[POST]

Send an encrypted PDF report, which is in the user's scope, to a distribution list.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Distribute Report” permission. The output includes reports in the user's scope.

Input Parameters

The elements “id” (integer) and “distributionList” (text) are required, where “id” identifies a report and “distributionList” identifies the email addresses of the report recipients.

Click here for available operators

Sample - Send Encrypted PDF Report

Let us send an encrypted PDF report to a distribution list.

API request

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
@data-binary
"https://qualysapi.qualys.com/qps/rest/3.0/send/was/report/1302" <
file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```xml
<ServiceRequest>
  <data>
    <Report>
      <distributionList>
        <add>
          <EmailAddress><![CDATA[email1@abc.com]]></EmailAddress>
        </add>
      </distributionList>
    </Report>
  </data>
</ServiceRequest>
```
<EmailAddress><![CDATA[email2@abc.com]]></EmailAddress>
</add>
</distributionList>
</Report>
</data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
     xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/report.xsd"
     xmlns:xsd="http://www.w3.org/2001/XMLSchema-instance">
     <count>1</count>
     <data>
         <Report>
             <id>1302</id>
         </Report>
     </data>
     <responseCode>SUCCESS</responseCode>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/report.xsd
Update Report

/qps/rest/3.0/update/was/report/<id>

[POST]

Update the tags assigned to a report which is in the user's scope. Want to find a report ID to use as input? See Search reports.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and ”Edit Report” permission. The output includes reports in the user’s scope.

Input Parameters

The elements “id” (integer) and “tags” (complex element) are required, where “id” identifies a report and “tags” identifies tags to be added or removed.

The element “showPatched” can be set to filter the report to include/not include findings with virtual patches. Applies to Web Application Report and Scan Report. This filter can be set to:

SHOW_ONLY - show patched findings only
SHOW_BOTH - show patched & unpatched findings (default)
SHOW_NONE - show unpatched findings only

Click here for available operators

Sample - Update a report - add a tag

Let us update the a report with ID 1304 by tagging the report.

API request

Note: “file.xml” contains the request POST data.
Request POST data

```
<ServiceRequest>
  <data>
    <Report>
      <tags>
        <set>
          <Tag>
            <id>99509</id>
          </Tag>
          <Tag>
            <id>99510</id>
          </Tag>
        </set>
      </tags>
    </Report>
  </data>
</ServiceRequest>
```

XML response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                  xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/report.xsd">
  <count>1</count>
  <data>
    <Report>
      <id>1304</id>
    </Report>
  </data>
  <responseCode>SUCCESS</responseCode>
</ServiceResponse>
```

XSD

```
<platform_API_server>/qps/xsd/3.0/was/report.xsd
```
Delete Report

/qps/rest/3.0/delete/was/report/<id>

/qps/rest/3.0/delete/was/report

[POST]

Delete a report which is in the user’s scope. Want to find a report ID to use as input? See Search reports.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and ”Delete Report” permission. The output includes reports in the user's scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. To delete one report by the report ID, the id element is required. the other elements listed below are used to delete reports based on filters. See Reference: Report for descriptions of these <Report> elements.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The report ID. This element is assigned by the service and is required for a certain type of request (details, status, update, delete, send or download).</td>
</tr>
<tr>
<td>name</td>
<td>(text) A report name (maximum 256 characters). Applies to all reports.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) ID of the tag associated with the report.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Name of the tag associated with the report.</td>
</tr>
<tr>
<td>creationDate</td>
<td>(date) The date when the report was created in UTC</td>
</tr>
</tbody>
</table>
date/time format (YYYY-MM-DDTHH:MM:SSZ).

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>(keyword) The report type, one of: WAS_SCAN_REPORT, WAS_WEBAPP_REPORT, WAS_SCORECARD_REPORT, WAS_CATALOG_REPORT, DATALIST_REPORT.</td>
</tr>
<tr>
<td>format</td>
<td>(keyword) The format of the report, one of: HTML_ZIPPED, HTML_BASE64, PDF, PDF_ENCRYPTED, POWERPOINT, CSV, XML, WORD.</td>
</tr>
<tr>
<td>status</td>
<td>(keyword) The status of the report: RUNNING, ERROR or COMPLETE.</td>
</tr>
</tbody>
</table>

Sample - Delete a single report

Let us delete report with the ID 6333.

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" "https://qualysapi.qualys.com/qps/rest/3.0/delete/was/report/6333"
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report>
      <id>6333</id>
    </Report>
  </data>
</ServiceResponse>
```

Sample - Delete reports - criteria
Let us delete reports matching one or both of these criteria: 1) reports with names that contain the string “to be deleted”, and 2) reports that are completed (having the status COMPLETED).

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/delete/was/report" < file.xml
Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">to be deleted</Criteria>
    <Criteria field="status" operator="EQUALS">COMPLETE</Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report>
      <id>1542</id>
    </Report>
  </data>
</ServiceResponse>
```

**XSD**

<platform_API_server>/qps/xsd/3.0/was/report.xsd
Report Creation

Create Report

/qps/rest/3.0/create/was/report

[POST]


Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Create Report”.

XSD

<platform API server>/qps/xsd/3.0/was/report.xsd
Web Application Report

/qps/rest/3.0/create/was/report

[POST]

Using the Report Creation API you can create the Web Application Report.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Create Report”.

Note: Report creation may sometimes fail if the report is created for large number of web applications. To avoid such failures, we have now categorized report creation as per the number of web applications being included in the report. For web applications less than or equal to 500, you can create the report. But if the number of web applications exceeds 500, report cannot be created and error message is displayed in such cases.

The categorization is as follows:

<table>
<thead>
<tr>
<th>Number of Web Applications</th>
<th>Create Report (API)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than or equal to 500</td>
<td>Yes</td>
</tr>
<tr>
<td>More than 500</td>
<td>No</td>
</tr>
</tbody>
</table>

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>(text) Name of the report.</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API

Report Creation

Note: Generating a report without template will allow you to assign a name to the report. If you use template during report generation, the name you provide in the request is ignored and the template name is assigned to the report.

<table>
<thead>
<tr>
<th>type</th>
<th>(keyword) Type of the report, one of: WAS_SCAN_REPORT, WAS_WEBAPP_REPORT, WAS_SCORECARD_REPORT, WAS_CATALOG_REPORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>format</td>
<td>(keyword) Report format, one of: WORD, HTML_ZIPPED, HTML_BASE64, PDF, PDF_ENCRYPTED, CSV, CSV_V2, XML, POWERPOINT</td>
</tr>
<tr>
<td>template.id</td>
<td>(integer) The template ID. This element is assigned by the system and is required for a certain type of request.</td>
</tr>
<tr>
<td>config*(1)</td>
<td>The “config” element must have one and only one of these child elements: webAppReport, scanReport, catalogReport or scorecardReport. Refer to Reference: Report for more details.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) ID of the tag associated with the web application.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Name of the tag associated with the web application.</td>
</tr>
<tr>
<td>password</td>
<td>(text) The password for a PDF encrypted report.</td>
</tr>
<tr>
<td>distributionList*</td>
<td>This element specifies the email addresses for distribution of the report.</td>
</tr>
</tbody>
</table>

Example:
<distributionList>
  <count>2</count>
  <list>
    <EmailAddress><![CDATA[1@abc.com]]></EmailAddress>
    <EmailAddress><![CDATA[2@abc.com]]></EmailAddress>
  </list>
</distributionList>
Sample - Create web app report - minimum criteria

Let us create a web application report in encrypted PDF format, setting both tags and web applications for the target.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/report" < file.xml

Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <data>
    <Report>
      <name><![CDATA[API Web Application Report]]></name>
      <description><![CDATA[PDF WebApp report]]></description>
      <format>PDF</format>
      <type>WAS_WEBAPP_REPORT</type>
      <config>
        <webAppReport>
          <target>
            <webapps>
              <WebApp><id>8223303</id></WebApp>
            </webapps>
          </target>
        </webAppReport>
      </config>
    </Report>
  </data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report>
      
      
    </Report>
  </data>
</ServiceResponse>
Sample - Create a web application report - use tags as target

Let us create a web application report using tags to add web applications as target for the report.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/report" < file.xml
Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <Report>
      <name><![CDATA[Web App Report]]></name>
      <format>PDF</format>
      <type>WAS_WEBAPP_REPORT</type>
      <config>
        <webAppReport>
          <target>
            <tags>
              <included>
                <option>ALL</option>
                <tagList>
                  <Tag>
                    <id>12008216</id>
                  </Tag>
                </tagList>
              </included>
              <excluded>
                <option>ANY</option>
                <tagList>
                  <Tag>
                    <id>12008219</id>
                  </Tag>
                </tagList>
              </excluded>
            </tags>
          </target>
        </webAppReport>
      </config>
    </Report>
  </data>
</ServiceResponse>
```
Sample - Create a web application report using report template

Let’s generate a web application report in PDF format using a specific template (identified by its template ID).

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-"https://qualysapi.qualys.com/qps/rest/3.0/create/was/report/" < file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <data>
    <Report>
      <name>Web_App_Report</name>
    </Report>
  </data>
</ServiceRequest>
```
<description><![CDATA[A web application report]]></description>
	<type>WAS_WEBAPP_REPORT</type>
	<format>PDF</format>
	<config>
		<webAppReport>
			<target>
				/tags>
					<included>
						<option>ALL</option>
						<tagList>
							<Tag>
								$id>12001856</id>
							</Tag>
					</tagList>
				</included>
				<excluded>
					<option>ANY</option>
					<tagList>
						<Tag>
							$id>12001856</id>
					</Tag>
				</tagList>
			</excluded>
		</tags>
	</target>
	</webAppReport>
	<template>
		$id>876048</id>
	</template>
	</config>
	</Report>
</data>
</ServiceRequest>

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/report.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
```
Sample - Create a web application report using CSV_V2 format

Let’s generate a web application report in CSV_V2 format.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/report/" < file.xml

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <Report>
      <name><![CDATA[Web Application Report for Servers]]></name>
      <format>CSV_V2</format>
      <template>
        <id>46440</id>
      </template>
      <config>
        <webAppReport>
          <target>
            <webapps>
              <WebApp>
                <id>470281</id>
              </WebApp>
            </webapps>
          </target>
        </webAppReport>
      </config>
    </Report>
  </data>
</ServiceRequest>
```

**XML response**

```xml
<Report>
  <id>973056</id>
</Report>
</ServiceResponse>
```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/report.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report>
      <id>214158</id>
    </Report>
  </data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/report.xsd
Scan Report

/qps/rest/3.0/create/was/report

[POST]

Using the Report Creation API you can create the Scan Report. A scan report shows you the results of scans on a particular web application.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Create Report”.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. The element “target” is required and at least one “scans” child element is required. For details, refer to Reference: Report Creation.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>target.scans</td>
<td>(WasScan) The web applications to be scanned.</td>
</tr>
<tr>
<td>filters.searchlists</td>
<td>(SearchList) Number of search lists to report on vulnerabilities in those lists. If no search lists are selected, the report will include all findings.</td>
</tr>
<tr>
<td>filters.url</td>
<td>(text) Number of URLs of the web applications to being scanned.</td>
</tr>
<tr>
<td>filters.status</td>
<td>(ScanFindingStatus) Select status of vulnerabilities to be included in this report: New, Active, Re-opened, Fixed, Protected.</td>
</tr>
<tr>
<td>filters.remediation.showPatched</td>
<td>(keyword) Specify the filter to include ignored or patched findings (vulnerabilities and sensitive content) in this report. Show patched filter: SHOW_ONLY, SHOW_NONE, SHOW_BOTH - default.</td>
</tr>
<tr>
<td>filters.remediation.ignoredReasons</td>
<td>(keyword) The reason to ignore a finding: FALSE_POSITIVE, RISK_ACCEPTED, NOT_APPLICABLE.</td>
</tr>
<tr>
<td>display.contents</td>
<td>(ScanAppReportContent) The report content: Description, Summary, Results, Individual Records, Details, AllResults, Appendix, Severity Levels.</td>
</tr>
<tr>
<td>display.graphs</td>
<td>(ScanAppReportGraph) The graphs to be included in the report: Vulnerabilities by severity, Vulnerabilities by status, Vulnerabilities by group, Sensitive contents by group, Vulnerabilities by OWASP, Vulnerabilities by WASC, Most vulnerable URLs.</td>
</tr>
<tr>
<td>display.groups</td>
<td>(ScanAppReportGroup) The group category to be included in the report: URL, OWASP, WASC, State, Category, QID, Group.</td>
</tr>
<tr>
<td>display.options</td>
<td>(rawLevels) (Urgent), 4 (Critical), 3 (Serious), 2 (Medium), 1 (Minimal)</td>
</tr>
<tr>
<td>filters.remediation.showIgnored</td>
<td>(boolean) Specify if you wish to include ignored or patched findings.</td>
</tr>
<tr>
<td>format</td>
<td>(keyword) Report format, one of: WORD, HTML_ZIPPED, HTML_BASE64, PDF,</td>
</tr>
</tbody>
</table>
Sample - Create a scan report

Let us create a scan report in HTML ZIPPED format, selecting a single scan for the target.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/report" < file.xml

Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <data>
    <Report>
      <name><![CDATA[with all parameters HTML_ZIPPED]]></name>
      <description><![CDATA[A simple scan report]]></description>
      <format>HTML_ZIPPED</format>
      <type>WAS_SCAN_REPORT</type>
      <config>
        <scanReport>
          <target>
            <scans>
              <WasScan>
                <id>104268</id>
              </WasScan>
            </scans>
          </target>
        </scanReport>
        <display>
          <contents>
            <ScanReportContent>DESCRIPTION</ScanReportContent>
            <ScanReportContent>SUMMARY</ScanReportContent>
            <ScanReportContent>GRAPHS</ScanReportContent>
            <ScanReportContent>RESULTS</ScanReportContent>
            <ScanReportContent>INDIVIDUAL_RECORDS</ScanReportContent>
            <ScanReportContent>RECORD_DETAILS</ScanReportContent>
            <ScanReportContent>ALL_RESULTS</ScanReportContent>
          </contents>
        </display>
      </config>
    </Report>
  </data>
</ServiceRequest>
```
Qualys Web Application Scanning API
Report Creation

<ScanReportContent>APPENDIX</ScanReportContent>
</contents>
<graphs>
  <ScanReportGraph>VULNERABILITIES_BY_SEVERITY</ScanReportGraph>
  <ScanReportGraph>VULNERABILITIES_BY_GROUP</ScanReportGraph>
  <ScanReportGraph>VULNERABILITIES_BY_OWASP</ScanReportGraph>
  <ScanReportGraph>VULNERABILITIES_BY_WASC</ScanReportGraph>
  <ScanReportGraph>SENSITIVE_CONTENTS_BY_GROUP</ScanReportGraph>
</graphs>
<groups>
  <ScanReportGroup>URL</ScanReportGroup>
  <ScanReportGroup>GROUP</ScanReportGroup>
  <ScanReportGroup>OWASP</ScanReportGroup>
  <ScanReportGroup>WASC</ScanReportGroup>
  <ScanReportGroup>STATUS</ScanReportGroup>
  <ScanReportGroup>CATEGORY</ScanReportGroup>
  <ScanReportGroup>QID</ScanReportGroup>
</groups>
<options>
  <rawLevels>true</rawLevels>
</options>
</display>
<filters>
  <searchlists>
    <SearchList>
      <id>43147</id>
    </SearchList>
  </searchlists>
  <status>
    <ScanFindingStatus>NEW</ScanFindingStatus>
    <ScanFindingStatus>ACTIVE</ScanFindingStatus>
    <ScanFindingStatus>REOPENED</ScanFindingStatus>
    <ScanFindingStatus>FIXED</ScanFindingStatus>
  </status>
</filters>
</scanReport>
</config>
</Report>
</data>
Sample - Create a scan report with remediation filter options

Let us create a scan report with remediation filter options to either include ignored findings.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/report" < file.xml

Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <data>
    <Report>
      <name><![CDATA[with all parameters HTML_ZIPPED]]></name>
      <description><![CDATA[A scan report with ignored findings]]></description>
      <format>HTML_ZIPPED</format>
      <type>WAS_SCAN_REPORT</type>
      <config>
        <scanReport>
          <target>
            <scans>
              <WasScan>

XML response

<?xml version="1.0" encoding="UTF-8"?>
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report>
      <id>3629</id>
    </Report>
  </data>
</ServiceResponse>
Qualys Web Application Scanning API

Report Creation

$id>104268</id>

</WasScan>
</scans>
</target>
<display>
<contents>
<ScanReportContent>DESCRIPTION</ScanReportContent>
<ScanReportContent>SUMMARY</ScanReportContent>
<ScanReportContent>GRAPHS</ScanReportContent>
<ScanReportContent>RESULTS</ScanReportContent>
<ScanReportContent>INDIVIDUAL_RECORDS</ScanReportContent>
<ScanReportContent>RECORD_DETAILS</ScanReportContent>
<ScanReportContent>ALL_RESULTS</ScanReportContent>
<ScanReportContent>APPENDIX</ScanReportContent>
</contents>
<graphs>
<ScanReportGraph>VULNERABILITIES_BY_SEVERITY</ScanReportGraph>
<ScanReportGraph>VULNERABILITIES_BY_GROUP</ScanReportGraph>
<ScanReportGraph>VULNERABILITIES_BY_OWASP</ScanReportGraph>
<ScanReportGraph>VULNERABILITIES_BY_WASC</ScanReportGraph>
<ScanReportGraph>SENSITIVE_CONTENTS_BY_GROUP</ScanReportGraph>
</graphs>
<groups>
<ScanReportGroup>URL</ScanReportGroup>
<ScanReportGroup>GROUP</ScanReportGroup>
<ScanReportGroup>OWASP</ScanReportGroup>
<ScanReportGroup>WASC</ScanReportGroup>
<ScanReportGroup>STATUS</ScanReportGroup>
<ScanReportGroup>CATEGORY</ScanReportGroup>
<ScanReportGroup>QID</ScanReportGroup>
</groups>
<options>
<rawLevels>true</rawLevels>
</options>
</display>
<filters>
<searchlists>
<SearchList>
$id>43147</id>
</SearchList>
</searchlists>
Sample - Create a scan report using report template

Let's generate a scan report in PDF format using a specific template (identified by its template ID).

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/report/" < file.xml
Note: “file.xml” contains the request POST data.
### Request POST data

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <Report>
      <name><![CDATA[Scan Report for Servers]]></name>
      <format>PDF</format>
      <template>
        <id>876049</id>
      </template>
      <config>
        <scanReport>
          <target>
            <scans>
              <WasScan>
                <id>2252466</id>
              </WasScan>
            </scans>
          </target>
        </scanReport>
      </config>
    </Report>
  </data>
</ServiceRequest>
```

### XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report>
      <id>973057</id>
    </Report>
  </data>
</ServiceResponse>
```

### Sample - Create a scan report in CSV_V2 format

Let's generate a scan report in CSV-V2 format.
Qualys Web Application Scanning API

Report Creation

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/report/" <
file.xml
Note: “file.xml” contains the request POST data.

Request POST data

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <Report>
      <name><![CDATA[Scan Report for Servers]]></name>
      <format>CSV_V2</format>
      <template>
        <id>46441</id>
      </template>
      <config>
        <scanReport>
          <target>
            <scans>
              <WasScan>
                <id>1667002</id>
              </WasScan>
            </scans>
          </target>
        </scanReport>
      </config>
    </Report>
  </data>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/report.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report>
      <id>214159</id>
    </Report>
</ServiceResponse>
```
Report Creation

XSD

<platform API server>/qps/xsd/3.0/was/report.xsd
Scorecard Report

/qps/rest/3.0/create/was/report

[POST]

Using the Report Creation API you can create the Scorecard Report. A Scorecard Report ranks the vulnerability of your web applications.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Create Report”.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. For details, refer to Reference: Report Creation.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>target.webapps</td>
<td>(WebApp) The web applications to be scanned.</td>
</tr>
<tr>
<td>target.tags.included.option</td>
<td>(keyword: ALL or ANY) Decides which web applications should be included in the scan.</td>
</tr>
<tr>
<td></td>
<td>ALL: Only the web applications associated with all the specified tags are included in the scan.</td>
</tr>
<tr>
<td></td>
<td>ANY: Only the web applications associated with any of the specified tags included in the scan.</td>
</tr>
<tr>
<td>target.tags.included.tagList.Tag.id</td>
<td>(integer) The web applications</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>filters.searchlists</td>
<td>(SearchList) Number of search lists to report on vulnerabilities in those lists. If no search lists are selected, the report will include all findings.</td>
</tr>
<tr>
<td>filters.scanDate</td>
<td>(DatetimeRange) Filter by Scan date.</td>
</tr>
<tr>
<td>filters.scanStatus</td>
<td>(WasScanConsolidatedStatus) Filter by scan status.</td>
</tr>
<tr>
<td>filters.scanAuthStatus</td>
<td>(WasScanAuthStatus) Filter by authentication status of the scan.</td>
</tr>
<tr>
<td>format</td>
<td>(keyword) Report format, one of: WORD, HTML_ZIPPED, HTML_BASE64, PDF, PDF_ENCRYPTED, CSV, CSV_V2, XML, POWERPOINT</td>
</tr>
<tr>
<td>display.contents</td>
<td>(ScanAppReportContent) The report content: Description, Summary, Results, Individual Records, Details, AllResults, Appendix, Severity Levels.</td>
</tr>
<tr>
<td>target.tags.excluded.option</td>
<td>(Keyword) Value is ALL or ANY</td>
</tr>
<tr>
<td>target.tags.excluded.option</td>
<td>(keyword: ALL or ANY) Decides which web applications should be excluded from the scan.</td>
</tr>
<tr>
<td></td>
<td>ALL : Only the web applications associated with all the specified tags are excluded from the scan.</td>
</tr>
<tr>
<td></td>
<td>ANY : Only the web applications associated with any of the specified tags are excluded from the scan.</td>
</tr>
</tbody>
</table>
target.tags.excluded.tagList.Tag.id (integer) The web applications associated with the tag (identified by the specified tag ID) are excluded from the scan.

display.graphs (ScanAppReportGraph) The graphs to be included in the report:
Vulnerabilities by severity, Vulnerabilities by status, Vulnerabilities by group, Sensitive contents by group, Vulnerabilities by OWASP, Vulnerabilities by WASC, Most vulnerable URLs.

display.groups (ScanAppReportGroup) The group category to be included in the report:
URL, OWASP, WASC, State, Category, QID, Group.

display.options (rawLevels) (Urgent), 4 (Critical), 3 (Serious), 2 (Medium), 1 (Minimal)

Sample - Create a scorecard report

Let us create a scorecard report in PDF format, selecting a single tag for the target.

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/report" < file.xml
```

Note: “file.xml” contains the request POST data.

Request POST data

```
<ServiceRequest>
  <data>
    <Report>
      <name><![CDATA[with all parameters PDF with rawLevel false]]></name>
    </Report>
  </data>
</ServiceRequest>
```
<description><![CDATA[A simple scorecard report]]></description>
<format>PDF</format>
<type>WAS_SCORECARD_REPORT</type>
<config>
  <scorecardReport>
    <target>
      <tags>
        <included>
          <option>ALL</option>
          <tagList>
            <Tag>
              <id>7821676</id>
            </Tag>
          </tagList>
        </included>
      </tags>
    </target>
    <display>
      <contents>
        <ScorecardReportContent>DESCRIPTION</ScorecardReportContent>
        <ScorecardReportContent>SUMMARY</ScorecardReportContent>
        <ScorecardReportContent>GRAPHS</ScorecardReportContent>
        <ScorecardReportContent>RESULTS</ScorecardReportContent>
      </contents>
      <graphs>
        <ScorecardReportGraph>VULNERABILITIES_BY_GROUP</ScorecardReportGraph>
        <ScorecardReportGraph>VULNERABILITIES_BY_OWASP</ScorecardReportGraph>
        <ScorecardReportGraph>VULNERABILITIES_BY_WASC</ScorecardReportGraph>
      </graphs>
      <groups>
        <scorecardReportGroup>GROUP</scorecardReportGroup>
        <scorecardReportGroup>OWASP</scorecardReportGroup>
        <scorecardReportGroup>WASC</scorecardReportGroup>
      </groups>
      <options>
        <rawLevels>false</rawLevels>
      </options>
    </display>
    <filters>
      <searchlists>
      </SearchList>
      </searchlists>
    </filters>
  </scorecardReport>
</config>
Sample - Create a scorecard report using the report template

Let’s generate a scorecard report in HTML format using a specific template (identified by its template ID).

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/report" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <Report>
      <name>Report_08</name>
      <description><![CDATA[A scorecard report]]></description>
      <type>WAS_SCORECARD_REPORT</type>
      <format>HTML_ZIPPED</format>
      <template>
        <id>876051</id>
      </template>
      <config>
        <scorecardReport>
          <target>
            <tags>
              <included>
                <option>ALL</option>
                <tagList>
                  <Tag>
                    <id>11999629</id>
                  </Tag>
                </tagList>
              </included>
              <excluded>
                <option>ANY</option>
                <tagList>
                  <Tag>
                    <id>11999629</id>
                  </Tag>
                </tagList>
              </excluded>
            </tags>
          </target>
        </scorecardReport>
      </config>
    </Report>
  </data>
</ServiceRequest>
```

XML response
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/report.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report>
      <id>973058</id>
    </Report>
  </data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/report.xsd
Catalog Report

/qps/rest/3.0/create/was/report

[POST]

Using the Report Creation API you can create the Catalog Report. A Catalog Report shows you the number and status of entries in your web application catalog.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Create Report”.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. The element “target” is required and at least one “scans” child element is required. For details, refer to Reference: Report Creation.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>filters.scanDate</td>
<td>(DatetimeRange) Filter by scan date.</td>
</tr>
<tr>
<td>filters.url</td>
<td>(text) Filter by web app URL.</td>
</tr>
<tr>
<td>filters.ip</td>
<td>(text) Filter by IP address.</td>
</tr>
<tr>
<td>filters.os</td>
<td>(text) Filter by OS.</td>
</tr>
<tr>
<td>filters.status</td>
<td>(EntryStatus) Filter by status.</td>
</tr>
<tr>
<td>format</td>
<td>(keyword) Report format, one of: WORD, HTML_ZIPPED, HTML_BASE64, PDF, PDF_ENCRYPTED, CSV, CSV_V2, XML, POWERPOINT</td>
</tr>
</tbody>
</table>
display.contents  (ScanAppReportContent) The report content: Description, Summary, Results, Individual Records, Details, AllResults, Appendix, Severity Levels.

display.graphs  (ScanAppReportGraph) The graphs to be included in the report: Vulnerabilities by severity, Vulnerabilities by status, Vulnerabilities by group, Sensitive contents by group, Vulnerabilities by OWASP, Vulnerabilities by WASC, Most vulnerable URLs.

display.groups  (ScanAppReportGroup) The group category to be included in the report: URL, OWASP, WASC, State, Category, QID, Group.

display.options  (rawLevels) 5 (Urgent), 4 (Critical), 3 (Serious), 2 (Medium), 1 (Minimal)

Sample - Create a catalog report

Let us create a catalog report in CSV format, selecting a single tag for the target.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-"https://qualysapi.qualys.com/qps/rest/3.0/create/was/report" <file.xml

Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <data>
    <Report>
      <name><![CDATA[with all parameters CSV]]></name>
      <description><![CDATA[A simple Catalog report]]></description>
      <type>WAS_CATALOG_REPORT</type>
      <format>CSV</format>
      <config>
        <catalogReport>
          <display>
<contents>
  <CatalogReportContent>DESCRIPTION</CatalogReportContent>
  <CatalogReportContent>SUMMARY</CatalogReportContent>
  <CatalogReportContent>GRAPHS</CatalogReportContent>
  <CatalogReportContent>RESULTS</CatalogReportContent>
  <CatalogReportContent>INDIVIDUAL_RECORDS</CatalogReportContent>
</contents>
<graphs>
  <CatalogReportGraph>ENTRIES_ADDED_OVER_TIME</CatalogReportGraph>
  <CatalogReportGraph>ENTRIES_BY_STATUS</CatalogReportGraph>
</graphs>
<groups>
  <CatalogReportGroup>STATUS</CatalogReportGroup>
  <CatalogReportGroup>OPERATING_SYSTEM</CatalogReportGroup>
</groups>
</display>
<filters>
  <status>
    <EntryStatus>NEW</EntryStatus>
    <EntryStatus>SUBSCRIPTION</EntryStatus>
    <EntryStatus>ROGUE</EntryStatus>
    <EntryStatus>APPROVED</EntryStatus>
    <EntryStatus>REJECTED</EntryStatus>
  </status>
  <scanDate>
    <startDate>2017-06-29</startDate>
    <endDate>2017-06-29</endDate>
  </scanDate>
  <url><![CDATA[mysite.fr]]></url>
  <os><![CDATA[unix]]></os>
</filters>
</catalogReport>
</config>
</Report>
</data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
Sample - Create a catalog report using report template

Let's generate a catalog report in PDF format using a specific template (identified by its template ID).

API request

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-"https://qualysapi.qualys.com/qps/rest/3.0/create/was/report" < file.xml
```

Note: “file.xml” contains the request POST data.

Request POST data

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <Report>
      <name><![CDATA[Catalog Report for Servers]]></name>
      <description><![CDATA[A simple catalog report]]></description>
      <format>PDF</format>
      <template>
        <id>876050</id>
      </template>
    </Report>
  </data>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/report.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report>
      <id>5629</id>
    </Report>
  </data>
</ServiceResponse>
```
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report>
      <id>973058</id>
    </Report>
  </data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/report.xsd
Report Template Count

/qps/rest/3.0/count/was/reporttemplate

[POST]

Returns the total number of report templates in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. See Reference: Report Creation for details.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The report ID. This element is assigned by the service and is required for a certain type of request (details, status, update, delete, send or download).</td>
</tr>
<tr>
<td>name</td>
<td>(text) A report name (maximum 256 characters). Applies to all reports.</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) The report type, one of: WAS_SCAN_REPORT, WAS_WEBAPP_REPORT, WAS_SCORECARD_REPORT, WAS_CATALOG_REPORT, DATALIST_REPORT.</td>
</tr>
</tbody>
</table>

Sample - Count the report templates

You can search for templates by using different filters for template ID, template name or type of report. Let’s consider an example of searching report template using filter for template ID.
API request

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/count/was/reporttemplate" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```xml
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="EQUALS">1234</Criteria>
  </filters>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/reporttemplate.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>6</count>
</ServiceResponse>
```

XSD

```xml
<platform API server>/qps/xsd/3.0/was/report.xsd
```
Search Report Template

/qps/rest/3.0/search/was/reporttemplate

[POST]

You can search for existing report templates

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND. The element “target” is required and at least one “scans” child element is required. See Reference: Report Creation for details.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The report ID. This element is assigned by the service and is required for a certain type of request (details, status, update, delete, send or download).</td>
</tr>
<tr>
<td>name</td>
<td>(text) A report name (maximum 256 characters). Applies to all reports.</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) The report type, one of: WAS_SCAN_REPORT, WAS_WEBAPP_REPORT, WAS_SCORECARD_REPORT, WAS_CATALOG_REPORT, DATALIST_REPORT.</td>
</tr>
</tbody>
</table>

Sample - Search report templates
You can search for templates by using different filters for template ID, template name or type of report. Let’s consider an example of searching report template using filter for template ID.

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/search/was/reporttemplate" < file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="EQUALS">876048</Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/reporttemplate.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <ReportTemplate>
      <id>876048</id>
      <name><![CDATA[Web Application Report]]></name>
      <description><![CDATA[Each targeted web application is listed with the total number of detected vulnerabilities and sensitive content.]]>
      <owner>
        <id>23220145</id>
        <username>username</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
      </owner>
      <type>WAS_WEBAPP_REPORT</type>
      <creationDate>2017-04-11T09:29:23Z</creationDate>
    </ReportTemplate>
  </data>
</ServiceResponse>
```
<tags>
  <count>0</count>
</tags>
<config>
  <webAppReportTemplate>
    <display>
      <contents>
        <WebAppReportContent>DESCRIPTION</WebAppReportContent>
        <WebAppReportContent>SUMMARY</WebAppReportContent>
        <WebAppReportContent>RESULTS</WebAppReportContent>
        <WebAppReportContent>INDIVIDUAL_RECORDS</WebAppReportContent>
        <WebAppReportContent>RECORD_DETAILS</WebAppReportContent>
        <WebAppReportContent>APPENDIX</WebAppReportContent>
      </contents>
      <graphs>
        <WebAppReportGraph>VULNERABILITIES_BY_SEVERITY</WebAppReportGraph>
        <WebAppReportGraph>VULNERABILITIES_BY_STATUS</WebAppReportGraph>
        <WebAppReportGraph>VULNERABILITIES_BY_GROUP</WebAppReportGraph>
        <WebAppReportGraph>VULNERABILITIES_BY_OWASP</WebAppReportGraph>
      </graphs>
      <groups>
        <WebAppReportGroup>WEBAPP</WebAppReportGroup>
        <WebAppReportGroup>CATEGORY</WebAppReportGroup>
        <WebAppReportGroup>GROUP</WebAppReportGroup>
        <WebAppReportGroup>QID</WebAppReportGroup>
      </groups>
      <options>
        <rawLevels>true</rawLevels>
      </options>
    </display>
    <filters/>
    <url>![CDATA[null]]</url>
    <status>
      <WebAppFindingStatus>NEW</WebAppFindingStatus>
      <WebAppFindingStatus>ACTIVE</WebAppFindingStatus>
      <WebAppFindingStatus>REOPENED</WebAppFindingStatus>
    </status>
  </webAppReportTemplate>
</config>
<remediation>
  <showPatched>SHOW_BOTH</showPatched>
  <showIgnored>SHOW_NONE</showIgnored>
  <ignoredReasons>
    <IgnoredReason>NOT_APPLICABLE</IgnoredReason>
    <IgnoredReason>FALSE_POSITIVE</IgnoredReason>
    <IgnoredReason>RISK_ACCEPTED</IgnoredReason>
  </ignoredReasons>
</remediation>

<platform API server>/qps/xsd/3.0/was/report.xsd
Get details of Report Template

/qps/rest/3.0/get/was/reporttemplate/<id>

[GET]

View details for a report template which is in the user's scope. See “Search Report Template” to find a record ID to use as input.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”.

Input Parameters

The element “id” (integer) is required, where “id” identifies the report.

Click here for available operators

Sample - Get details of the report template

Let us get details of a report template.

API request

curl -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/reporttemplate/876048"

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/reporttemplate.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <ReportTemplate>
      <id>876048</id>
      <name><![CDATA[Web Application Report]]></name>
      <description>
Each targeted web application is listed with the total number of detected vulnerabilities and sensitive content.

<owner>
  <id>23220145</id>
  <username>john_doe</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</owner>

<type>WAS_WEBAPP_REPORT</type>
<creationDate>2017-04-11T09:29:23Z</creationDate>
<tags>
  <count>0</count>
</tags>
<config>
  <webAppReportTemplate>
    <display>
      <contents>
        <WebAppReportContent>DESCRIPTION</WebAppReportContent>
        <WebAppReportContent>SUMMARY</WebAppReportContent>
        <WebAppReportContent>GRAPHS</WebAppReportContent>
        <WebAppReportContent>RESULTS</WebAppReportContent>
        <WebAppReportContent>INDIVIDUAL_RECORDS</WebAppReportContent>
        <WebAppReportContent>RECORD_DETAILS</WebAppReportContent>
        <WebAppReportContent>APPENDIX</WebAppReportContent>
      </contents>
      <graphs>
        <WebAppReportGraph>VULNERABILITIES_BY_SEVERITY</WebAppReportGraph>
        <WebAppReportGraph>VULNERABILITIES_BY_STATUS</WebAppReportGraph>
        <WebAppReportGraph>VULNERABILITIES_BY_GROUP</WebAppReportGraph>
        <WebAppReportGraph>VULNERABILITIES_BY_OWASP</WebAppReportGraph>
      </graphs>
      <groups>
        <WebAppReportGroup>WEBAPP</WebAppReportGroup>
        <WebAppReportGroup>CATEGORY</WebAppReportGroup>
      </groups>
    </display>
  </webAppReportTemplate>
</config>
Qualys Web Application Scanning API

Report Creation

XSD

<platform_API_server>/qps/xsd/3.0/was/report.xsd
## Reference: Report

The `<Report>` element includes sub elements used to define a web application report. A reference of these elements is provided below. An asterisk * indicates a complex element.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The report ID. This element is assigned by the service and is required for a certain type of request (details, status, update, delete, send or download).</td>
</tr>
<tr>
<td>name</td>
<td>(text) A report name (maximum 256 characters). Applies to all reports. Note: Generating a report without template will allow you to assign a name to the report. If you use template during report generation, the name you provide in the request is ignored and the template name is assigned to the report.</td>
</tr>
<tr>
<td>description</td>
<td>(text) A description of the report.</td>
</tr>
<tr>
<td>owner*</td>
<td>This element is assigned by the service and may be specified for an update request only. Example:</td>
</tr>
<tr>
<td>type</td>
<td>(text) The report type, one of: WAS_SCAN_REPORT, WAS_WEBAPP_REPORT, WAS_SCORECARD_REPORT, WAS_CATALOG_REPORT, DATALIST_REPORT</td>
</tr>
<tr>
<td>format</td>
<td>(text) The format of the report, one of: HTML_ZIPPED,</td>
</tr>
</tbody>
</table>
## Report Creation

**HTML_BASE64, PDF, PDF_ENCRYPTED, POWERPOINT, CSV, CSV_V2, XML, WORD**

<table>
<thead>
<tr>
<th>tags*</th>
<th>This element identifies the tags associated with the report.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Example:</td>
</tr>
<tr>
<td></td>
<td>&lt;tags&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;count&gt;2&lt;/count&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;list&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;Tag&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;id&gt;99509&lt;/id&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;name&gt;&lt;![CDATA[Tag 1]]&gt;&lt;/name&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/Tag&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;Tag&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;id&gt;99511&lt;/id&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;name&gt;&lt;![CDATA[Tag 2]]&gt;&lt;/name&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/Tag&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/list&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/tags&gt;</td>
</tr>
</tbody>
</table>

| password | (text) The password for a PDF encrypted report.         |

<table>
<thead>
<tr>
<th>distributionList*</th>
<th>This element specifies the email addresses for distribution of the report.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Example:</td>
</tr>
<tr>
<td></td>
<td>&lt;distributionList&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;count&gt;2&lt;/count&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;list&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;EmailAddress&gt;&lt;![CDATA[1@abc.com]]&gt;&lt;/EmailAddress&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;EmailAddress&gt;&lt;![CDATA[2@abc.com]]&gt;&lt;/EmailAddress&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/list&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/distributionList&gt;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>config*</th>
<th>The configuration options for report creation.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Example:</td>
</tr>
<tr>
<td></td>
<td>&lt;config&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;webAppReport&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;target&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;tags&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;Tag&gt;</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Qualys Web Application Scanning API

**Report Creation**

<table>
<thead>
<tr>
<th>status</th>
<th>(keyword) The status of the report: RUNNING, ERROR or COMPLETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>creationDate</td>
<td>(date) The date when the report was created in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
<tr>
<td>lastDownloadDate</td>
<td>(date) The date when the report was last downloaded in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
<tr>
<td>downloadCount</td>
<td>(integer) The number of times the report has been downloaded.</td>
</tr>
</tbody>
</table>
Reference: Report Creation

The Report “config” element includes sub elements used to define a web application report type. A reference of these elements is provided below. An asterisk * indicates a complex element.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The report ID. This element is assigned by the service and is required for a certain type of request (details, status, update, delete, send or download).</td>
</tr>
<tr>
<td>name</td>
<td>(text) A report name (maximum 256 characters). Applies to all reports. Note: Generating a report without template will allow you to assign a name to the report. If you use template during report generation, the name you provide in the request is ignored and the template name is assigned to the report.</td>
</tr>
<tr>
<td>target*</td>
<td>A report target. Applies to all reports. Example for a web application report: &lt;tags&gt; &lt;included&gt; &lt;option&gt;ALL&lt;/option&gt; &lt;tagList&gt; &lt;set&gt; &lt;Tag&gt;&lt;id&gt;12017424&lt;/id&gt;&lt;/Tag&gt; &lt;Tag&gt;&lt;id&gt;12017228&lt;/id&gt;&lt;/Tag&gt; &lt;/set&gt; &lt;/tagList&gt; &lt;/included&gt; &lt;excluded&gt; &lt;option&gt;ANY&lt;/option&gt; &lt;tagList&gt; &lt;set&gt; &lt;Tag&gt;&lt;id&gt;12017228&lt;/id&gt;&lt;/Tag&gt; &lt;/set&gt; &lt;/tagList&gt; &lt;/excluded&gt;</td>
</tr>
</tbody>
</table>
### Report Creation

#### template.id

**Template ID** (integer) The template ID. This element is assigned by the system and is required for a certain type of request.

**Example:**

```xml
<template>
  <id>876048</id>
</template>
```

#### type (text)

**Report Type**: WAS_SCAN_REPORT, WAS_WEBAPP_REPORT, WAS_SCORECARD_REPORT, WAS_CATALOG_REPORT, DATALIST_REPORT

#### password (text)

A password for an encrypted PDF report. Applies to all reports.

#### distributionList*

Email addresses for a report distribution list. Applies to all reports.

**Example:**

```xml
<distributionList>
  <set>
    <EmailAddress><EMAIL_ADDRESS1></EmailAddress>
    <EmailAddress><EMAIL_ADDRESS2></EmailAddress>
  </set>
</distributionList>
```

#### display.contents*

Identifies the report content to display.

**Values**:

- DESCRIPTION, SUMMARY, GRAPHS, RESULTS, INDIVIDUAL_RECORDS (all reports)

- RECORD_DETAILS, ALL_RESULTS, APPENDIX (Web Application Report and Scan)
Qualys Web Application Scanning API
Report Creation

Example for a Scan Report:

<display>
  <contents>
    <ScanReportContent>GRAPHS</ScanReportContent>
    <ScanReportContent>RESULTS</ScanReportContent>
  </contents>
</display>

display.graphs*
Identifies the graphs to display. Applies to all reports.

Example for a Scan Report:

<display>
  <graphs>
    <ScanReportGraph>
      MOST_VULNERABLE_URLS
    </ScanReportGraph>
    <ScanReportGraph>
      VULNERABILITIES_BY_SEVERITY
    </ScanReportGraph>
    <ScanReportGraph>
      VULNERABILITIES_BY_GROUP
    </ScanReportGraph>
    <ScanReportGraph>
      VULNERABILITIES_BY_OWASP
    </ScanReportGraph>
    <ScanReportGraph>
      VULNERABILITIES_BY_WASC
    </ScanReportGraph>
    <ScanReportGraph>
      SENSITIVE_CONTENTS_BY_GROUP
    </ScanReportGraph>
  </graphs>
</display>

display.groups*
Identifies the vulnerability groups to display. Applies to all reports.

Example for a Web Application Report or Scan Report:
<display>
  <groups>
    <WebAppReportGroup>GROUP</WebAppReportGroup>
    <WebAppReportGroup>OWASP</WebAppReportGroup>
    <WebAppReportGroup>WASC</WebAppReportGroup>
  </groups>
</display>

display.options* Specifies whether to display severity using levels (1 through 5) or using ratings (low, medium, high). Applies to all reports.

filters.searchlists* Identifies search list filters. Applies to a Web Application Report, Scan Report or Scorecard Report.

Example:
<filters>
  <SearchLists>
    <SearchList>
      <id>43147</id>
    </SearchList>
  </SearchLists>
</filters>

filters.url (text) Identifies URL filters. Applies to a Web Application Report, Scan Report or Catalog Report.

Example:
<filters>
  ...
</filters>


Values for Web Application Report and Scan Report: NEW, ACTIVE, REOPENED, FIXED

Values for Catalog Report: NEW, ROGUE, APPROVED, REJECTED, SUBSCRIPTION

filters.showPatched Identifies whether to include/not include findings with
<table>
<thead>
<tr>
<th>(keyword)</th>
<th>virtual patches. Applies to Web Application Report and Scan Report.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Values:</td>
<td>SHOW_ONLY - show patched findings only</td>
</tr>
<tr>
<td></td>
<td>SHOW_BOTH - show patched &amp; unpatched findings (default)</td>
</tr>
<tr>
<td></td>
<td>SHOW_NONE - show unpatched findings only</td>
</tr>
</tbody>
</table>

| filters.remediation. showIgnored (boolean) | Include ignored findings: true or false |

<table>
<thead>
<tr>
<th>filters.remediation. ignoredReasons (keyword)</th>
<th>Identifies the types of findings to be included in the report. Applies to Scan Report.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Values:</td>
<td>FALSE_POSITIVE - include false positive findings in the report</td>
</tr>
<tr>
<td></td>
<td>RISK_ACCEPTED - include risk accepted findings in the report</td>
</tr>
<tr>
<td></td>
<td>NOT_APPLICABLE - include findings marked as not applicable in the report</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>filters.scanDate*</th>
<th>Applies to a Scorecard Report and Catalog Report.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example:</td>
<td></td>
</tr>
<tr>
<td>&lt;filters&gt;</td>
<td></td>
</tr>
<tr>
<td>&lt;scanDate&gt;</td>
<td></td>
</tr>
<tr>
<td>&lt;startDate&gt;2017-08-28&lt;/startDate&gt;</td>
<td></td>
</tr>
<tr>
<td>&lt;endDate&gt;2017-10-28&lt;/endDate&gt;</td>
<td></td>
</tr>
<tr>
<td>&lt;/scanDate&gt;</td>
<td></td>
</tr>
<tr>
<td>&lt;/filters&gt;</td>
<td></td>
</tr>
</tbody>
</table>

| filters.scanStatus* | Applies to a Scorecard Report. Tip - Specify SERVICE_ERROR to include scans with the status |
Service Errors Detected.

Example:
<pre>
<filters>
  <scanStatus>FINISHED</scanStatus>
</filters>
</pre>

**filters.scanAuthStatus**  Applies to a Scorecard Report

Example:
<pre>
<filters>
  <scanAuthStatus>SUCCESSFUL</scanAuthStatus>
</filters>
</pre>

**filters.ip (text)**  Applies to a Catalog Report

Example:
<pre>
<filters>
  <ip><![CDATA[10.56.64.245]]></ip>
</filters>
</pre>

**filters.os (text)**  Applies to a Catalog Report

Example:
<pre>
<filters>
  <os><![CDATA[unix]]></os>
</filters>
</pre>
Findings

Finding Count

/qps/rest/3.0/count/was/finding

[POST]

Returns the total number of findings on web application(s) in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The count includes web applications in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) ID of the finding (WebAppVuln, WebAppIg, or WebAppSensitiveContent).</td>
</tr>
<tr>
<td>uniqueld</td>
<td>(value) The 36-bit unique id assigned to the finding. For example:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;Finding&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;id&gt;132990&lt;/id&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;uniqueId&gt;8a2c4d51-6d28-2b92-e053-2943720a74ab&lt;/uniqueId&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;qid&gt;150004&lt;/qid&gt;</td>
</tr>
<tr>
<td></td>
<td>...</td>
</tr>
<tr>
<td>qid</td>
<td>(integer) Qualys ID assigned to the detection.</td>
</tr>
</tbody>
</table>
### Qualys Web Application Scanning API

#### Findings

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>(text) Name of the detection finding.</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) Type of the finding: VULNERABILITY, SENSITIVE_CONTENT, or INFORMATION_GATHERED.</td>
</tr>
<tr>
<td>url</td>
<td>(text) URL of the web application on which the finding was detected.</td>
</tr>
<tr>
<td>webApp.tags.id</td>
<td>(date) ID of the tag associated with the web application on which the finding was detected.</td>
</tr>
<tr>
<td>webApp.tags.name</td>
<td>(text) Name of the tag associated with the web application on which the finding was detected.</td>
</tr>
<tr>
<td>status</td>
<td>(keyword) Status of the finding: NEW, ACTIVE, REOPENED, PROTECTED and FIXED.</td>
</tr>
<tr>
<td>patch</td>
<td>(integer-long) Use WAF to protect against vulnerabilities by installing virtual patches.</td>
</tr>
<tr>
<td>webApp.id</td>
<td>(integer) ID of the web application on which the finding was detected.</td>
</tr>
<tr>
<td>webApp.name</td>
<td>(text) Name of the web application on which the finding was detected.</td>
</tr>
<tr>
<td>severity</td>
<td>(integer) Severity of the finding.</td>
</tr>
<tr>
<td>externalRef</td>
<td>(string) Tip - Use operator IS EMPTY for findings with empty external references.</td>
</tr>
<tr>
<td>ignoredDate</td>
<td>(date) The date on which the finding was marked to ignore.</td>
</tr>
<tr>
<td>ignoredReason</td>
<td>(keyword) The reason for which the finding is ignored: FALSE_POSITIVE, RISK_ACCEPTED or NOT_APPLICABLE</td>
</tr>
<tr>
<td>group</td>
<td>(keyword) XSS, SQL, INFO, PATH, CC, SSN_US or</td>
</tr>
<tr>
<td>Field</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>owasp.name</td>
<td>(text) Name of the OWASP vulnerability.</td>
</tr>
<tr>
<td>owasp.code</td>
<td>(integer) Code associated with the OWASP vulnerability</td>
</tr>
<tr>
<td>wasc.name</td>
<td>(text) Name of the vulnerability.</td>
</tr>
<tr>
<td>wasc.code</td>
<td>(integer) Code of the vulnerability.</td>
</tr>
<tr>
<td>cwe.id</td>
<td>(integer) ID associated with CWE.</td>
</tr>
<tr>
<td>firstDetectedDate</td>
<td>(date) The date when the finding was first detected in the web application.</td>
</tr>
<tr>
<td>lastDetectedDate</td>
<td>(date) The date when the finding was last detected in the web application.</td>
</tr>
<tr>
<td>lastTestedDate</td>
<td>(date) The date when the finding was last tested in the web application.</td>
</tr>
<tr>
<td>timesDetected</td>
<td>(integer) The count indicating the number of times the finding was detected.</td>
</tr>
<tr>
<td>severity level</td>
<td>(integer) The severity associated with the finding: 1, 2, 3, 4, 5</td>
</tr>
</tbody>
</table>

**Sample - Get count of all findings**

Return the number (count) of all findings in the user’s scope.

**API request**

```bash
curl -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/count/was/finding/"
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
```
Sample - Get count of findings with a criteria

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/count/was/finding/" < file.xml
```

Note: “file.xml” contains the request POST data.

Request POST data

```
<ServiceRequest>
  <filters>
    <Criteria field="type" operator="EQUALS">VULNERABILITY</Criteria>
    <Criteria field="severity" operator="EQUALS">5</Criteria>
    <Criteria field="status" operator="IN">NEW, ACTIVE, REOPENED</Criteria>
  </filters>
</ServiceRequest>
```

XML response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                 xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>41</count>
</ServiceResponse>
```

Sample - Get details of finding

If you search for a finding using unique ID (uniqueld), the count will always be one.
### API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/count/was/finding/" < file.xml

Note: “file.xml” contains the request POST data.

### Request POST data

```xml
<ServiceRequest>
  <filters>
    <Criteria field="uniqueId" operator="EQUALS">8a2c4d51-6d28-2b92-e053-2943720a74ab</Criteria>
  </filters>
</ServiceRequest>
```

### XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
</ServiceResponse>
```

### XSD

```xml
<platform API server>/qps/xsd/3.0/was/finding.xsd
```
Search Findings

/qps/rest/3.0/search/was/finding

[POST]

Returns list of findings (vulnerabilities, sensitive contents, information gathered) found in web applications which are in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes findings in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) ID of the finding (WebAppVuln, WebAppIg, or WebAppSensitiveContent).</td>
</tr>
<tr>
<td>uniqueld</td>
<td>(value) The 36-bit unique id assigned to the finding. For example:</td>
</tr>
<tr>
<td>qid</td>
<td>(integer) Qualys ID assigned to the detection.</td>
</tr>
<tr>
<td>name</td>
<td>(text) Name of the detection finding.</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) Type of the finding: VULNERABILITY, SENSITIVE_CONTENT, or INFORMATION_GATHERED.</td>
</tr>
<tr>
<td>--------------------</td>
<td>------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>url</td>
<td>(text) URL of the web application on which the finding was detected.</td>
</tr>
<tr>
<td>webApp.tags.id</td>
<td>(date) ID of the tag associated with the web application on which the finding was detected.</td>
</tr>
<tr>
<td>webApp.tags.name</td>
<td>(text) Name of the tag associated with the web application on which the finding was detected.</td>
</tr>
<tr>
<td>status</td>
<td>(keyword) Status of the finding: NEW, ACTIVE, REOPENED, PROTECTED, and FIXED.</td>
</tr>
<tr>
<td>patch</td>
<td>(integer-long) Use WAF to protect against vulnerabilities by installing virtual patches.</td>
</tr>
<tr>
<td>webApp.id</td>
<td>(integer) ID of the web application on which the finding was detected.</td>
</tr>
<tr>
<td>webApp.name</td>
<td>(text) Name of the web application on which the finding was detected.</td>
</tr>
<tr>
<td>severity</td>
<td>(integer) Severity of the finding.</td>
</tr>
<tr>
<td>externalRef</td>
<td>(string) Tip - Use operator IS EMPTY for findings with empty external references.</td>
</tr>
<tr>
<td>ignoredDate</td>
<td>(date) The date on which the finding was marked to ignore.</td>
</tr>
<tr>
<td>ignoredReason</td>
<td>(keyword) The reason for which the finding is ignored: FALSE_POSITIVE, RISK_ACCEPTED or NOT_APPLICABLE</td>
</tr>
<tr>
<td>group</td>
<td>(keyword) XSS, SQL, INFO, PATH, CC, SSN_US or CUSTOM</td>
</tr>
</tbody>
</table>
### Qualys Web Application Scanning API

### Findings

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>owasp.name</td>
<td>(text) Name of the OWASP vulnerability.</td>
</tr>
<tr>
<td>owasp.code</td>
<td>(integer) Code associated with the OWASP vulnerability</td>
</tr>
<tr>
<td>wasc.name</td>
<td>(text) Name of the vulnerability.</td>
</tr>
<tr>
<td>wasc.code</td>
<td>(integer) Code of the vulnerability.</td>
</tr>
<tr>
<td>cwe.id</td>
<td>(integer) ID associated with CWE.</td>
</tr>
<tr>
<td>firstDetectedDate</td>
<td>(date) The date when the finding was first detected in the web application,</td>
</tr>
<tr>
<td>lastDetectedDate</td>
<td>(date) The date when the finding was last detected in the web application.</td>
</tr>
<tr>
<td>lastTestedDate</td>
<td>(date) The date when the finding was last tested in the web application.</td>
</tr>
<tr>
<td>timesDetected</td>
<td>(integer) The count indicating the number of times the finding was detected.</td>
</tr>
<tr>
<td>severity level</td>
<td>(integer) The severity associated with the finding: 1, 2, 3, 4, 5</td>
</tr>
</tbody>
</table>

### Sample - Search for finding with specific ID

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/was/finding/" <
file.xml
Note: “file.xml” contains the request POST data.
```

**Request POST data**

```xml
<ServiceRequest>
<preferences>
```

---

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Qualys Web Application Scanning API

Findings

<verbose>true</verbose>
</preferences>
<filters>
    <Criteria field="id" operator="EQUALS">156582</Criteria>
</filters>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <Finding>
            <id>156582</id>
            <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
            <qid>150124</qid>
            <name><![CDATA[Clickjacking - Framable Page]]></name>
            <type>VULNERABILITY</type>
            <findingType>QUALYS</findingType>
            <cwe>
                <count>1</count>
                <list>
                    <long>451</long>
                </list>
            </cwe>
            <owasp>
                <count>1</count>
                <list>
                    <OWASP>
                        <name><![CDATA[Security Misconfiguration]]></name>
                    </OWASP>
                </list>
            </owasp>
        </Finding>
    </data>
</ServiceResponse>
Qualys Web Application Scanning API

Findings

<wasc><count>1</count><list><WASC><name><![CDATA[Application Misconfiguration]]></name><url><![CDATA[http://projects.webappsec.org/page/13246914/WASC]]></url><code>15</code></WASC></list></wasc><resultList><count>1</count><list><Result><authentication>false</authentication><ajax>false</ajax><payloads><count>1</count><list><PayloadInstance><payload><![CDATA[N/A]]></payload><request><method><![CDATA[GET]]></method><link><![CDATA[http://funkytown.vuln.qa.qualys.com/cassium/xss/]]></link><headers/></request><response><![CDATA[The URI was framed.]]></response></PayloadInstance></list></payloads></Result></list></resultList>
Qualys Web Application Scanning API

Findings

<response>
  <PayloadInstance>
    <list>
      <payloads>
        <Result>
          <resultList>
            <severity>3</severity>
            <url>
              <![CDATA[http://funkytown.vuln.qa.qualys.com/cassium/xss/]]>
            </url>
            <status>ACTIVE</status>
            <firstDetectedDate>2017-04-28T09:36:13Z</firstDetectedDate>
            <lastDetectedDate>2018-02-21T09:03:32Z</lastDetectedDate>
            <lastTestedDate>2018-02-21T09:03:32Z</lastTestedDate>
            <timesDetected>3</timesDetected>
            <webApp>
              <id>286824</id>
              <name>
                <![CDATA[webapp]]>
              </name>
              <url>
                <![CDATA[http://funkytown.vuln.qa.qualys.com:80/cassium/xss/]]>
              </url>
              <tags>
                <count>2</count>
                <list>
                  <Tag>
                    <id>8753812</id>
                    <name>
                      <![CDATA[MultiScan]]>
                    </name>
                  </Tag>
                  <Tag>
                    <id>9029017</id>
                    <name>
                      <![CDATA[TagWebapp1]]>
                    </name>
                  </Tag>
                </list>
              </tags>
            </webApp>
          </resultList>
        </PayloadInstance>
      </list>
    </payloads>
  </Result>
</response>
Qualys Web Application Scanning API

Findings

Sample - Search with criteria: condensed response

API request

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- 
"https://qualysapi.qualys.com/qps/rest/3.0/search/was/finding/" < file.xml
```

Note: “file.xml” contains the request POST data.

Request POST data

```xml
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="EQUALS">935943</Criteria>
  </filters>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <isIgnored>true</isIgnored>
  <ignoredReason>FALSE_POSITIVE</ignoredReason>
  <ignoredBy>
    <id>1056860</id>
    <username>user_john</username>
    <firstName><![CDATA[John]]></firstName>
    <lastName><![CDATA[Doe]]></lastName>
  </ignoredBy>
  <ignoredDate>2019-03-04T03:19:29Z</ignoredDate>
  <ignoredComment><![CDATA[This is test comment]]></ignoredComment>
  <retest/>
</Finding>
</ServiceResponse>
```
<responseCode>SUCCESS</responseCode>
<count>1</count>
<hasMoreRecords>false</hasMoreRecords>
<data>
  <Finding>
    <id>935943</id>
    <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    <qid>150117</qid>
    <name><![CDATA[Path-Based Cross-Site Scripting (XSS)]]</name>
    <type>VULNERABILITY</type>
    <findingType>QUALYS</findingType>
    <severity>5</severity>
    <url><![CDATA[http://funkytown.vuln.qa.example.com/cassium/traversal/page_48/%22%3e%3cimg%20src%3d%20onerror%3dalert(9)%3e]]></url>
    <status>ACTIVE</status>
    <firstDetectedDate>2017-04-04T06:15:33Z</firstDetectedDate>
    <lastDetectedDate>2017-04-04T06:16:20Z</lastDetectedDate>
    <lastTestedDate>2017-04-04T06:16:20Z</lastTestedDate>
    <timesDetected>3</timesDetected>
    <webApp>
      <id>4080112</id>
      <name><![CDATA[web app 1491286489688]]></name>
      <url><![CDATA[http://funkytown.vuln.qa.example.com:80/cassium/xss/]]></url>
    </webApp>
  </Finding>
</data>
</ServiceResponse>

Sample - Search with criteria: condensed response

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/was/finding/" <
file.xml
Note: “file.xml” contains the request POST data.

Request POST data
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="EQUALS">935943</Criteria>
  </filters>
</ServiceRequest>

XML response
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <Finding>
      <id>935943</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
      <qid>150117</qid>
      <name><![CDATA[Path-Based Cross-Site Scripting (XSS)]]></name>
      <type>VULNERABILITY</type>
      <findingType>QUALYS</findingType>
      <severity>5</severity>
      <url><![CDATA[http://funkytown.vuln.qa.example.com/cassium/traversal/page_48/%22%3e%3cimg%20src%3d%20onerror%3dalert(9)%3e]]></url>
      <status>ACTIVE</status>
      <firstDetectedDate>2017-04-04T06:15:33Z</firstDetectedDate>
      <lastDetectedDate>2017-04-04T06:16:20Z</lastDetectedDate>
      <lastTestedDate>2017-04-04T06:16:20Z</lastTestedDate>
      <timesDetected>3</timesDetected>
      <webApp>
        <id>4080112</id>
        <name>
Sample - Search finding using uniqueId

As every uniqueld is unique, using uniqueld, you could search for the exact finding.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/search/was/finding/" < file.xml

Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <filters>
    <Criteria field="uniqueId" operator="EQUALS">8a2c4d51-6d28-2b92-e053-2943720a74ab</Criteria>
  </filters>
</ServiceRequest>
Qualys Web Application Scanning API

Findings

XSD

<platform_API_server>/qps/xsd/3.0/was/finding.xsd
Get Finding Details

/qps/rest/3.0/get/was/finding/<id>

[GET]

Returns details for a finding on a web application which is in the user's scope. See “Search findings” to find a record ID to use as input? See Search Findings.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The output includes findings for web applications in the user's scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies a finding (WebAppVuln, WebAppIg, or WebAppSensitiveContent).

Click here for available operators

Sample - View details for the finding

Let us view details for the web application with the ID 1729432.

API request

curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/finding/1729432"

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>1729432</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>
Findings

<qid>150117</qid>
<name><![CDATA[Path-Based Cross-Site Scripting (XSS)]></name>
<type>VULNERABILITY</type>
<findingType>QUALYS</findingType>
<group>XSS</group>
<cwe>
  <count>1</count>
  <list>
    <long>79</long>
  </list>
</cwe>
<owasp>
  <count>1</count>
  <list>
    <OWASP>
      <name><![CDATA[Cross-Site Scripting (XSS)]]></name>
      <url><![CDATA[https://www.owasp.org/index.php/Top_10-2017_A7-Cross-Site_Scripting_(XSS)]]></url>
      <code>7</code>
    </OWASP>
  </list>
</owasp>
<wasc>
  <count>1</count>
  <list>
    <WASC>
      <name><![CDATA[Cross-Site Scripting]]></name>
      <url>![CDATA[http://projects.webappsec.org/w/page/13246920/WASC]]></url>
      <code>8</code>
    </WASC>
  </list>
</wasc>
<resultList>
  <count>1</count>
  <list>
<Result>
  <authentication>false</authentication>
  <ajax>false</ajax>
  <payloads>
    <count>1</count>
    <list>
      <PayloadInstance>
        <payload>
          <![CDATA[@APPEND%@22%3e%3cimg %20src%20onerror%3dalert(9)%3e]]>
        </payload>
        <request>
          <method><![CDATA[GET]]></method>
          <link><![CDATA[http://funkytown.vuln.qa.qualys.com/cassium/traversal/page_48/%22%3e%3cimg%20src%20onerror%3dalert(9)%3e]]></link>
          <headers><![CDATA[UmVmZXJlcjogaHR0cDovL2Z1bmt5dG93bi52dWxuLnFhLnF1YWx5cy5jb20vY2Fzc2l1bS94c3MvDQpDb29raWU6IFBIUFNFU1NJRD00ODlmNTIyNzI3ODM0OTQwNzExYTE1MWM0MDsNCg==]]></headers>
        </request>
        <response><![CDATA[<html><head><title>Welcome to page page_48/</title></head><body><h1>Welcome to page page_48/</h1><img src=onerror=alert(9)></img><a href='/cassium/traversal/page_49'>here</a> to go to the next page.<a href='/cassium/traversal/page_47'>here</a> to go back to the previous page.</body></html>]]></response>
        <payloadResponse>
          <offset>16</offset>
          <length>62</length>
        </payloadResponse>
      </PayloadInstance>
    </list>
  </payloads>
</Result>
<url>
<![CDATA[http://funkytown.vuln.qa.example.com/cassium/traversal/page_48/%22%3e%3cimg%20src%3dq%20onerror%3dalert(9)%3e]]>
</url>
<status>ACTIVE</status>
<firstDetectedDate>2017-04-04T06:15:33Z</firstDetectedDate>
<lastDetectedDate>2017-04-04T06:16:20Z</lastDetectedDate>
<lastTestedDate>2017-04-04T06:16:20Z</lastTestedDate>
<timesDetected>3</timesDetected>
<webApp>
  <id>4080112</id>
  <name><![CDATA[web app 1491286489688]]></name>
  <url><![CDATA[http://funkytown.vuln.qa.example.com:80/cassium/xss/]]></url>
</webApp>
<isIgnored>true</isIgnored>
<ignoredReason>FALSE_POSITIVE</ignoredReason>
<ignoredBy>
  <id>6717940</id>
  <username>user_john</username>
  <firstName><![CDATA[John]]></firstName>
</ignoredBy>
Sample - Get details of finding

You can fetch details of a finding using uniqueld.

API request

curl -n -u "USERNAME:PASSWORD" 
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/finding/8a2c4d51-6d28-2b92-e053-2943720a74ab"

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>132990</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
      <qid>150004</qid>
      <name>
        <![CDATA[Path-Based Vulnerability]]>
      </name>
      <type>VULNERABILITY</type>
      <findingType>QUALYS</findingType>
      <group>PATH</group>
      <cwe>
        <count>1</count>
        <list>
          
        </list>
      </cwe>
    </Finding>
  </data>
</ServiceResponse>
Sample - Groups for Information Gathered Issues

Let us view the two groups for issues of type Information Gathered:

- Diagnostic IG (general information about the scan)
- Weakness IG (issues that are security weakness or conflict with best practices)

The response accordingly reflects to which group the issue belongs.

API request

curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/finding/713223"

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>713223</id>
      <uniqueId>8c9c933f-04f1-f77e-e053-294f2c0ab892</uniqueId>
      <qid>150014</qid>
      <name><![CDATA[External Form Actions Discovered]]></name>
      <findingType>QUALYS</findingType>
    </Finding>
  </data>
</ServiceResponse>
```
Sample - Get details of findings with "SSL/TLS and Certificate issues"

Let us fetch details of a finding that includes different types of SSL/TLS and Certificate issues. Depending on the type of the finding, the details are listed in Information Gathered and Information Disclosure type. The different types of SSL/TLS and certificate issues that we support are:

- SSL Data with Certificate Fingerprint
- SSL Data with Prop
- SSL Data with Kex
- SSL Data with Ciphers

The finding you view could include one or multiple issues for an issue type that is listed above. The name tag indicates the type of the issue.

API request

curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/finding/581856"

XML response (SSL Data with Certificate Fingerprint)

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    ...
  </data>
</ServiceResponse>
```
Qualys Web Application Scanning API

Findings

XSD

<platform_API_server>/qps/xsd/3.0/was/finding.xsd
Ignore Findings

/qps/rest/3.0/ignore/was/finding
/qps/rest/3.0/ignore/was/finding/<id>

[POST]

Ignore findings for a web application which is in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Ignore Vulnerabilities” permission. The output includes findings for web applications in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) ID of the finding (WebAppVuln, WebAppIg, or WebAppSensitiveContent).</td>
</tr>
<tr>
<td>uniqueld</td>
<td>(value) The 36-bit unique id assigned to the finding. For example:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;Finding&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;id&gt;132990&lt;/id&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;uniqueId&gt;8a2c4d51-6d28-2b92-e053-2943720a74ab&lt;/uniqueId&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;qid&gt;150004&lt;/qid&gt;</td>
</tr>
<tr>
<td></td>
<td>...</td>
</tr>
<tr>
<td>qid</td>
<td>(integer) Qualys ID assigned to the detection.</td>
</tr>
</tbody>
</table>
### Findings

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>name</strong></td>
<td>(text) Name of the detection finding.</td>
</tr>
<tr>
<td><strong>type</strong></td>
<td>(keyword) Type of the finding: VULNERABILITY, SENSITIVE_CONTENT, or INFORMATION_GATHERED.</td>
</tr>
<tr>
<td><strong>url</strong></td>
<td>(text) URL of the web application on which the finding was detected.</td>
</tr>
<tr>
<td><strong>webApp.tags.id</strong></td>
<td>(date) ID of the tag associated with the web application on which the finding was detected.</td>
</tr>
<tr>
<td><strong>webApp.tags.name</strong></td>
<td>(text) Name of the tag associated with the web application on which the finding was detected.</td>
</tr>
<tr>
<td><strong>status</strong></td>
<td>(keyword) Status of the finding: NEW, ACTIVE, REOPENED, PROTECTED and FIXED.</td>
</tr>
<tr>
<td><strong>patch</strong></td>
<td>(integer-long) Use WAF to protect against vulnerabilities by installing virtual patches.</td>
</tr>
<tr>
<td><strong>webApp.id</strong></td>
<td>(integer) ID of the web application on which the finding was detected.</td>
</tr>
<tr>
<td><strong>webApp.name</strong></td>
<td>(text) Name of the web application on which the finding was detected.</td>
</tr>
<tr>
<td><strong>severity</strong></td>
<td>(integer) Severity of the finding.</td>
</tr>
<tr>
<td><strong>externalRef</strong></td>
<td>(string) Tip - Use operator IS EMPTY for findings with empty external references.</td>
</tr>
<tr>
<td><strong>ignoredDate</strong></td>
<td>(date) The date on which the finding was marked to ignore.</td>
</tr>
<tr>
<td><strong>ignoredReason</strong></td>
<td>(keyword) The reason for which the finding is ignored: FALSE_POSITIVE, RISK_ACCEPTED or NOT_APPLICABLE</td>
</tr>
<tr>
<td><strong>group</strong></td>
<td>(keyword) XSS, SQL, INFO, PATH, CC, SSN_US or</td>
</tr>
</tbody>
</table>
### Qualys Web Application Scanning API

#### Findings

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>reactivateDate</td>
<td>(date) Specify the date after which the ignored finding should be re-activated. The date/time is specified in YYYY-MM-DD format.</td>
</tr>
<tr>
<td>reactivateIn</td>
<td>(integer) Specify the number of days after which the ignored finding should be reactivated.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> reactivateDate and reactivateIn are mutually exclusive parameters and cannot be used together. You can use only either of them for a finding.</td>
</tr>
<tr>
<td>owasp.name</td>
<td>(text) Name of the OWASP vulnerability.</td>
</tr>
<tr>
<td>owasp.code</td>
<td>(integer) Code associated with the OWASP vulnerability</td>
</tr>
<tr>
<td>wasc.name</td>
<td>(text) Name of the vulnerability.</td>
</tr>
<tr>
<td>wasc.code</td>
<td>(integer) Code of the vulnerability.</td>
</tr>
<tr>
<td>cwe.id</td>
<td>(integer) ID associated with CWE.</td>
</tr>
<tr>
<td>firstDetectedDate</td>
<td>(date) The date when the finding was first detected in the web application,</td>
</tr>
<tr>
<td>lastDetectedDate</td>
<td>(date) The date when the finding was last detected in the web application,</td>
</tr>
<tr>
<td>lastTestedDate</td>
<td>(date) The date when the finding was last tested in the web application.</td>
</tr>
<tr>
<td>timesDetected</td>
<td>(integer) The count indicating the number of times the finding was detected.</td>
</tr>
<tr>
<td>severity level</td>
<td>(integer) The severity associated with the finding:1,2,3,4,5</td>
</tr>
</tbody>
</table>
Sample - Ignore a specific finding

API request

curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/ignore/was/finding/1645195669"

Request POST data

<ServiceRequest>
  <data>
    <Finding>
      <id>1645195669</id>
      <ignoredReason>FALSE_POSITIVE</ignoredReason>
      <ignoredComment>test</ignoredComment>
    </Finding>
  </data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>1645195669</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>

Sample - Reactivate an ignored finding (date)

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/ignore/was/finding/"
Note: "file.xml" contains the request POST data.

Request POST data

```xml
<ServiceRequest>
  <data>
    <Finding>
      <id>927823</id>
      <ignoredReason>FALSE_POSITIVE</ignoredReason>
      <ignoredComment>test</ignoredComment>
      <reactivateDate>2018-11-14</reactivateDate>
    </Finding>
  </data>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>927823</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>
```

Sample - Reactivate an ignored finding (day)

API request

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/ignore/was/finding/
Note: "file.xml" contains the request POST data.
```

Request POST data

```xml
<ServiceRequest>
```
Qualys Web Application Scanning API
Findings

<xml version="1.0" encoding="UTF-8"?>
<ServiceResponse
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>927913</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>

Sample - Ignore multiple findings

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
  --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/ignore/was/finding/"
```

Note: "file.xml" contains the request POST data.

Request POST data

```
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="NOT_EQUALS">1231056</Criteria>
    <Criteria field="type" operator="NOT_EQUALS">INFORMATION_GATHERED</Criteria>
  </filters>
  <data>
```

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Note: When you are trying to ignore findings, make sure that type of finding is passed in data is not of INFORMATION_GATHERED type as they cannot be ignored. This can be ensured by using type not equals INFORMATION_GATHERED tag when using NOT EQUALS, GREATER or LESSER operator.

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>27</count>
  <data>
    <Finding>
      <id>1231057</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
    <Finding>
      <id>1231058</id>
      <uniqueId>5a2c4d51-5d28-2b92-e053-2943720a32ab</uniqueId>
    </Finding>
    <Finding>
      <id>1231059</id>
      <uniqueId>4a2c4d51-8d28-2b92-e053-2943720a16ab</uniqueId>
    </Finding>
    <Finding>
      <id>1231060</id>
      <uniqueId>3a2c4d51-9d28-2b92-e053-2943720a90ab</uniqueId>
    </Finding>
    ...
  </data>
</ServiceResponse>
```

Sample - Ignore finding using uniqueld
As every uniqueld is unique, using uniqueld, you could ignore the exact finding.

**API request**
```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/ignore/was/finding/8a2c4d51-6d28-2b92-e053-2943720a74ab" < file.xml
Note: “file.xml” contains the request POST data.
```

**Request POST data**
```
<ServiceRequest>
  <data>
    <Finding>
      <ignoredReason>FALSE_POSITIVE</ignoredReason>
      <ignoredComment>test</ignoredComment>
    </Finding>
  </data>
</ServiceRequest>
```

**XML response**
```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>132990</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>
```

**XSD**
```
<platform_API_server>/qps/xsd/3.0/was/finding.xsd
```
Activate Findings

/qps/rest/3.0/activate/was/finding

[POST]

Activate ignored findings for a web application which is in the user's scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and "Ignore Vulnerabilities" permission. The output includes findings for web applications in the user's scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) ID of the finding (WebAppVuln, WebAppIg, or WebAppSensitiveContent).</td>
</tr>
<tr>
<td>uniqueld</td>
<td>(value) The 36-bit unique id assigned to the finding. For example:</td>
</tr>
<tr>
<td></td>
<td>&lt;Finding&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;id&gt;132990&lt;/id&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;uniqueId&gt;8a2c4d51-6d28-2b92-e053-2943720a74ab&lt;/uniqueId&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;qid&gt;150004&lt;/qid&gt;</td>
</tr>
<tr>
<td></td>
<td>...</td>
</tr>
<tr>
<td>qid</td>
<td>(integer) Qualys ID assigned to the detection.</td>
</tr>
<tr>
<td>name</td>
<td>(text) Name of the detection finding.</td>
</tr>
<tr>
<td>Field</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>type</td>
<td>(keyword) Type of the finding: VULNERABILITY, SENSITIVE_CONTENT, or INFORMATION_GATHERED.</td>
</tr>
<tr>
<td>url</td>
<td>(text) URL of the web application on which the finding was detected.</td>
</tr>
<tr>
<td>webApp.tags.id</td>
<td>(date) ID of the tag associated with the web application on which the finding was detected.</td>
</tr>
<tr>
<td>webApp.tags.name</td>
<td>(text) Name of the tag associated with the web application on which the finding was detected.</td>
</tr>
<tr>
<td>status</td>
<td>(keyword) Status of the finding: NEW, ACTIVE, REOPENED, PROTECTED and FIXED.</td>
</tr>
<tr>
<td>patch</td>
<td>(integer-long) Use WAF to protect against vulnerabilities by installing virtual patches.</td>
</tr>
<tr>
<td>webApp.id</td>
<td>(integer) ID of the web application on which the finding was detected.</td>
</tr>
<tr>
<td>webApp.name</td>
<td>(text) Name of the web application on which the finding was detected.</td>
</tr>
<tr>
<td>severity</td>
<td>(integer) Severity of the finding.</td>
</tr>
<tr>
<td>externalRef</td>
<td>(string) Tip - Use operator IS EMPTY for findings with empty external references.</td>
</tr>
<tr>
<td>ignoredDate</td>
<td>(date) The date on which the finding was marked to ignore.</td>
</tr>
<tr>
<td>ignoredReason</td>
<td>(keyword) The reason for which the finding is ignored: FALSE_POSITIVE, RISK_ACCEPTED or NOT_APPLICABLE</td>
</tr>
<tr>
<td>group</td>
<td>(keyword) XSS, SQL, INFO, PATH, CC, SSN_US or CUSTOM</td>
</tr>
</tbody>
</table>
### Qualys Web Application Scanning API

#### Findings

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>owasp.name</td>
<td>(text) Name of the OWASP vulnerability</td>
</tr>
<tr>
<td>owasp.code</td>
<td>(integer) Code associated with the OWASP vulnerability</td>
</tr>
<tr>
<td>wasc.name</td>
<td>(text) Name of the vulnerability</td>
</tr>
<tr>
<td>wasc.code</td>
<td>(integer) Code of the vulnerability</td>
</tr>
<tr>
<td>cwe.id</td>
<td>(integer) ID associated with CWE.</td>
</tr>
<tr>
<td>firstDetectedDate</td>
<td>(date) The date when the finding was first detected in the web application,</td>
</tr>
<tr>
<td>lastDetectedDate</td>
<td>(date) The date when the finding was last detected in the web application,</td>
</tr>
<tr>
<td>lastTestedDate</td>
<td>(date) The date when the finding was last tested in the web application.</td>
</tr>
<tr>
<td>timesDetected</td>
<td>(integer) The count indicating the number of times the finding was detected.</td>
</tr>
<tr>
<td>severity level</td>
<td>(integer) The severity associated with the finding: 1, 2, 3, 4, 5</td>
</tr>
</tbody>
</table>

#### Sample - Activate all ignored findings

**API request**

```bash
curl -n -u "USERNAME:PASSWORD" "qualysapi.qualys.com/qps/rest/3.0/activate/was/finding"
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
    <responseCode>SUCCESS</responseCode>
</ServiceResponse>
```
Findings

Sample - Activate specific finding

API request

curl -n -u "USERNAME:PASSWORD" 
"qualysapi.qualys.com/qps/rest/3.0/activate/was/finding/1613255669"

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>1613255669</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>
```

Sample - Activate a finding using uniqueId
API request

```bash
curl -n -u "USERNAME:PASSWORD"
"qualysapi.qualys.com/qps/rest/3.0/activate/was/finding/1613255669"
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>1613255669</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>
```

XSD

```xml
<platform API server>/qps/xsd/3.0/was/finding.xsd
```
Edit Finding Severity

/qps/rest/3.0/editSeverity/was/finding
/qps/rest/3.0/editSeverity/was/finding/<id>

[POST]

Edit severity level of the given findings.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Ignore Vulnerabilities” permission. User must have access to web application which belongs to given WebAppVuln id. The output includes findings for web applications in the user's scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

[Click here for available operators]

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) ID of the finding (WebAppVuln, WebAppIg, or WebAppSensitiveContent).</td>
</tr>
<tr>
<td>uniqueld</td>
<td>(value) The 36-bit unique id assigned to the finding.</td>
</tr>
<tr>
<td>new severity</td>
<td>(integer) {1,2,3,4,5}</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API

Findings

| level | comments | (text) User comments. |

Sample - Edit severity level

Edit severity for single finding.

### API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/editSeverity/was/finding/" < file.xml
```

Note: “file.xml” contains the request POST data.

### Request POST data

```
<ServiceRequest>
  <data>
    <Finding>
      <id>647</id>
      <severityComment>Test comment API</severityComment>
      <severity>2</severity>
    </Finding>
  </data>
</ServiceRequest>
```

### XML response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>647</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>
```
Sample - Edit severity for multiple findings

**API request**

```bash
curl -u "USERNAME:PASSWORD" --data-binary "https://qualysapi.qualys.com/qps/rest/3.0/editSeverity/was/finding/" < file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <Finding>
      <severityComment>test comment api</severityComment>
      <severity>2</severity>
    </Finding>
  </data>
  <filters>
    <Criteria field="id" operator="IN">183, 645</Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>2</count>
  <data>
    <Finding>
      <id>645</id>
      <uniqueId>6a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
    <Finding>
      <id>183</id>
      <uniqueId>5a2c4d31-5d28-2b92-e055-4943720a51ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>
```
Qualys Web Application Scanning API

Findings

Sample - Edit severity of a finding using uniqueld

As every uniqueld is unique, using uniqueld, you could edit the severity of a finding.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/editSeverity/was/finding/"
< file.xml
Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <data>
    <Finding>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
      <severityComment>Test comment API</severityComment>
      <severity>3</severity>
    </Finding>
  </data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>132990</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/finding.xsd
Restore Findings Severity

/qps/rest/3.0/restoreSeverity/was/finding
/qps/rest/3.0/restoreSeverity/was/finding/<id>

[POST]

Restore severity level of the given findings.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Ignore Vulnerabilities” permission. User must have access to web application which belongs to given WebAppVuln id. The output includes findings for web applications in the user’s scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies a finding (WebAppVuln, WebAppIg, or WebAppSensitiveContent).

Click here for available operators

Sample - Restore severity level

**API request**

curl -n -u "USERNAME:PASSWORD" "qualysapi.qualys.com/qps/rest/3.0/restoreSeverity/was/finding"

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <Finding>
      <id>6034</id>
    </Finding>
  </data>
</ServiceRequest>
```
XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>6034</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>
```

Sample - Restore for multiple findings

API request

```bash
curl -n -u "USERNAME:PASSWORD" "qualysapi.qualys.com/qps/rest/3.0/restoreSeverity/was/finding"
```

Request POST data

```xml
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="IN">645,183</Criteria>
  </filters>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>2</count>
  <data>
    <Finding>
      <id>6034</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>
```
Sample - Restore severity of a finding using uniqueld

As every uniqueld is unique, you could restore the severity of specific finding.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/editSeverity/was/finding/" < file.xml
Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <Finding>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
      <severityComment>Restoring default severity</severityComment>
      <severity>3</severity>
    </Finding>
  </data>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>132990</id>
      <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>
```
Qualys Web Application Scanning API

Findings

XSD

<platform_API_server>/qps/xsd/3.0/was/finding.xsd
Retest Findings

/qps/rest/3.0/retest/was/finding

/qps/rest/3.0/retest/was/finding/<id>

[POST]

You can now easily retest the findings for individual vulnerabilities using Finding API to test the selected finding. Only potential vulnerabilities, confirmed vulnerabilities and sensitive contents are available for retest.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and "WAS.VULN.RETEST” permission. The output includes findings for web applications in the user's scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies a finding (WebAppVuln, WebAppIg, or WebAppSensitiveContent).

Click here for available operators

Sample - Retest Finding using XML Request

API request

curl -n -u "USERNAME:PASSWORD" "qualysapi.qualys.com/qps/rest/3.0/retest/was/finding"

Request POST data

<ServiceRequest>
  <data>
    <Finding>
      <id>1728792</id>
    </Finding>
  </data>
</ServiceRequest>
XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/portal-api/xsd/3.0/was/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>1728792</id>
      <uniqueId>2a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
    </Finding>
  </data>
</ServiceResponse>
```

Sample - Using Finding ID

**API request**

```
curl -n -u "USERNAME:PASSWORD" 
"qualysapi.qualys.com/qps/rest/3.0/retest/was/finding/1728792"
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/portal-api/xsd/3.0/was/finding.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
      <Finding>
        <id>1728792</id>
        <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
      </Finding>
    </data>
</ServiceResponse>
```

Sample - Retest a finding using uniqueld

**API request**

```
curl -n -u "USERNAME:PASSWORD" 
"qualysapi.qualys.com/qps/rest/3.0/retest/was/finding/1728792"
```
curl -n -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/retest/was/finding/8a2c4d51-6d28-2b92-e053-2943720a74ab"

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/portal-api/xsd/3.0/was/finding.xsd"
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding><id>1728792</id></Finding>
    <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>
  </data>
</ServiceResponse>
```

**XSD**

```
<platform API server>/qps/xsd/3.0/was/finding.xsd
```
WAS Findings in XML Report

Findings in all WAS reports in XML format are Base64 encoded starting with version 3.1. Findings include vulnerability detections, information gathered and sensitive content.

Did you build clients using WAS version 3.0 or earlier? If yes, please update your clients so that WAS findings data is processed accurately.

Tell me about Base64 encoded findings

All findings reported for scan and web applications are base64 encoded in XML. This includes:

- Actual contents of the response
- If evidence in response is highlighted, the evidence contents
- Information gathered data

Base64 encoded data usually will have the attribute set to “base64=true”. For example:

```xml
<FINDING>
  <PAYLOAD><![CDATA[uid=%00%3Cscript%3E_q%3Drandom(X157105156Y1Z)%3C%2Fscript]]></PAYLOAD>
  <RESULT base64="true"><![CDATA[Cl9mZWVkKCgKCgpbCiI=]]></RESULT>
</FINDING>
```

If the “base64=true attribute” is not set, the value will be in plain text. For example:

```xml
<FINDING>
  <PAYLOAD><![CDATA[uid=%00%3Cscript%3E_q%3Drandom(X157105156Y1Z)%3C%2Fscript]]></PAYLOAD>
  <RESULT><![CDATA[_feed("")]]></RESULT>
</FINDING>
```

Which WAS reports show findings?

- WAS v3 Scan Results
- Web Application Report
Web Application Scan Report

WAS v3 Scan Results

Vulnerability and Sensitive Content findings

WasScan/vulns/list/WasScanVuln/instances/list/WasScanVulnInstance/
payloads/list/WasScanVulnPayload/result

WasScan/sensitiveContents/list/WasScanSensitiveContent/
instances/list/ WasScanSensitiveContentInstance/payloads/list/
WasScanSensitiveContentPayload/result

Sample WAS v3 Scan Results XML

```xml
<WasScanVuln>
  <qid>150001</qid>
  <title><![CDATA[Reflected Cross-Site Scripting (XSS) Vulnerabilities]]></title>
  <uri><![CDATA[http://myuri.apps.com/613460625329/feed.gtl?uid=%22%3E
   %3Cqss%20a%3DX157105156Y1Z%3E]]></uri>
  <param>uid</param>
  <instances>
    <count>1</count>
    <list>
      <WasScanVulnInstance>
        <authenticated>false</authenticated>
        <payloads>
          <count>4</count>
          <list>
            <WasScanVulnPayload>
              <payload><![CDATA[uid=%00%3Cscript%3E_q%3Drandom(X157105156
               Y1Z)%3C2Fscript%3E]]></payload>
              <result base64="true">
            </WasScanVulnPayload>
          </list>
        </payloads>
      </WasScanVulnInstance>
    </list>
  </instances>
</WasScanVuln>
```
Information Gathered findings

WasScan/igs/list/WasScanIg/data

Sample WAS v3 Scan Results XML

```xml
<INFO>
  <QID>150044</QID>
  <TITLE><![CDATA[Login Form Is Not Submitted Via HTTPS]]></TITLE>
  <RESULT base64="true">
    <![CDATA[RGVmYXVsdbmb3JtIGFjdGlvdWciBwM15721836Y1Z%3Cscript%3E\]]>
  </RESULT>
</INFO>
```
Vulnerability and Sensitive Content findings

WAS_WEBAPP_REPORT/RESULTS/WEB_APPLICATION/VULNERABILITY_LIST/VULNERABILITY/PAYLOADS/PAYLOAD/RESPONSE/CONTENTS

WAS_WEBAPP_REPORT/RESULTS/WEB_APPLICATION/SENSITIVE_CONTENT_LIST/SENSITIVE_CONTENT/PAYLOADS/PAYLOAD/RESPONSE/CONTENTS

WAS_WEBAPP_REPORT/RESULTS/WEB_APPLICATION/VULNERABILITY_LIST/VULNERABILITY/PAYLOADS/PAYLOAD/RESPONSE/EVIDENCE

WAS_WEBAPP_REPORT/RESULTS/WEB_APPLICATION/SENSITIVE_CONTENT_LIST/SENSITIVE_CONTENT/PAYLOADS/PAYLOAD/RESPONSE/EVIDENCE

Sample WAS v3 Scan Results XML

```xml
<VULNERABILITY>
  <ID>5943</ID>
  <QID>150001</QID>
  <URL><![CDATA[http://myuri.apps.com/app/xss/0/1/0/xss.php?s='%20onEvent%3dX146470180Y1Z%20]]></URL>
  <PARAM><![CDATA[s]]></PARAM>
  <AUTHENTICATION>Not Required</AUTHENTICATION>
  <STATUS>NEW</STATUS>
  <FIRST_TIME_DETECTED>2011-12-30T09:57:39Z</FIRST_TIME_DETECTED>
  <LAST_TIME_DETECTED>2011-12-30T09:57:39Z</LAST_TIME_DETECTED>
  <LAST_TIME_TESTED>2011-12-30T09:57:39Z</LAST_TIME_TESTED>
  <TIMES_DETECTED>1</TIMES_DETECTED>
  <PAYLOADS>
    <PAYLOAD>
      <NUM>1</NUM>
      <PAYLOAD><![CDATA[s='%20onEvent%3dX146470180Y1Z%20]]></PAYLOAD>
    </PAYLOAD>
    <REQUEST/>
    <RESPONSE>
      <CONTENTS base64="true"><![CDATA[bGQiJmd00yZsdDsbmHQ7L3NwYW4mZ3Q7ID0mZ3Q7ICZsdDtcGFuIGNsYXNzPS5ib2xkIiZndDsmYW1wO2x00yZsdDsvc3Bhb1ZndDsbmHQ7YnImZ3Q7CiZsdDsvZG12Jmd00wombHQ7L2RpiZndDsmKJmxO2JyJmd00wombHQ7ZG12IGNsYXNzPSJwYX1sb2FkcyImZ3Q7Ck91dHB1dCBmcm9tIHJlclV1c3QgJmxO03NwYW4gY2xhc3M9IImJvbgQIjmd00y9fYXNzaXVtL3hzc5waHA/dmFyaWFudD0wJmFtcDtxcz0xJmFtcDtmPTAmYW1wO3M9jUyMG9uRXZ1bnQ1M2RyMQTQ2NDcwmMTgwTFAjTIwJmxO0y9zcGFuJmd00wombHQ7YnImZ3Q7CiZsdDthIghyZWY9J1wnIG9uRXZ1bnQ9WDE0NjQ3MDE4MFkxWiAnJmd03NhbXB]]>]]></CONTENTS>
  </RESPONSE>
</VULNERABILITY>
```
Information Gathered findings

WAS_WEBAPP_REPORT/RESULTS/WEB_APPLICATION/
INFORMATION_GATHERED_LIST/ INFORMATION_GATHERED/DATA

<INFORMATION_GATHERED_LIST>
 <INFORMATION_GATHERED>
  <ID>1529</ID>
  <QID>6</QID>
  <FIRST_TIME_DETECTED>2011-12-30T09:57:39Z</FIRST_TIME_DETECTED>
  <LAST_TIME_DETECTED>2011-12-30T09:57:39Z</LAST_TIME_DETECTED>
  <LAST_TIME_TESTED>2011-12-30T09:57:39Z</LAST_TIME_TESTED>
  <DATA base64="true">
 <![CDATA[I3RhYmxlCklQX2FkZHJlci3MgSG9zdF9uYW1lCg==]]>
 </DATA>
 </INFORMATION_GATHERED>
 <INFORMATION_GATHERED>
  <ID>1532</ID>
  <QID>150031</QID>
  <FIRST_TIME_DETECTED>2011-12-30T09:57:39Z</FIRST_TIME_DETECTED>
  <LAST_TIME_DETECTED>2011-12-30T09:57:39Z</LAST_TIME_DETECTED>
  <LAST_TIME_TESTED>2011-12-30T09:57:39Z</LAST_TIME_TESTED>
  <DATA base64="true">
 <![CDATA[VGltZW91dCBvIFdlYktpdC4gSmF2YVNjcmlwdCBzY5Lm9yOmVQaGFzZUNyYXdsCkNyYXdsIGNvbXBsZXRlZCB3aXRoIFdlYktpdC4K]]>
 </DATA>
 </INFORMATION_GATHERED>
</INFORMATION_GATHERED_LIST>
### Vulnerability and Sensitive Content findings

<table>
<thead>
<tr>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAS_SCAN_REPORT/RESULTS/VULNERABILITY_LIST/VULNERABILITY/PAYLOADS/PAYLOAD/RESPONSE/CONTENTS</td>
</tr>
<tr>
<td>WAS_SCAN_REPORT/RESULTS/SENSITIVE_CONTENT_LIST/SENSITIVE_CONTENT/PAYLOADS/PAYLOAD/RESPONSE/CONTENTS</td>
</tr>
<tr>
<td>WAS_SCAN_REPORT/RESULTS/VULNERABILITY_LIST/VULNERABILITY/PAYLOADS/PAYLOAD/RESPONSE/EVIDENCE</td>
</tr>
<tr>
<td>WAS_SCAN_REPORT/RESULTS/SENSITIVE_CONTENT_LIST/SENSITIVE_CONTENT/PAYLOADS/PAYLOAD/RESPONSE/EVIDENCE</td>
</tr>
</tbody>
</table>

### Information Gathered findings

<table>
<thead>
<tr>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAS_SCAN_REPORT/RESULTS/INFORMATION_GATHERED_LIST/INFORMATION_GATHERED/DATA</td>
</tr>
</tbody>
</table>
Reference: Findings

The `<OptionProfile>` element includes sub elements used to define an option profile. A reference of these elements is provided below. An asterisk * indicates a complex element.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) ID of the finding (WebAppVuln, WebAppIg, or WebAppSensitiveContent).</td>
</tr>
</tbody>
</table>
| uniqueld  | (value) The 36-bit unique id assigned to the finding. For example: `<Finding>  
  <id>132990</id>  
  <uniqueId>8a2c4d51-6d28-2b92-e053-2943720a74ab</uniqueId>  
  <qid>150004</qid>  
  ...` |
| qid       | (integer) Qualys ID assigned to the detection. |
| name      | (text) Name of the detection finding. |
| type      | (keyword) Type of the finding: VULNERABILITY, SENSITIVE_CONTENT, or INFORMATION_GATHERED. |
| url       | (text) URL of the web application on which the finding was detected. |
| webApp.tags.id | (integer) ID of the tag associated with the web application on which the finding was detected. |
| webApp.tags.name | (text) Name of the tag associated with the web application on which the finding was detected. |
| status    | (keyword) Status of the finding: NEW, ACTIVE, |
Qualys Web Application Scanning API

Findings

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>patch</td>
<td>(integer-long) Use WAF to protect against vulnerabilities by installing virtual patches.</td>
</tr>
<tr>
<td>webApp.id</td>
<td>(integer) ID of the web application on which the finding was detected.</td>
</tr>
<tr>
<td>webApp.name</td>
<td>(text) Name of the web application on which the finding was detected.</td>
</tr>
<tr>
<td>severity</td>
<td>(integer) Severity of the finding.</td>
</tr>
<tr>
<td>externalRef</td>
<td>(string) Tip - Use operator IS EMPTY for findings with empty external references.</td>
</tr>
<tr>
<td>ignoredDate</td>
<td>(date) The date on which the finding was marked to ignore.</td>
</tr>
<tr>
<td>ignoredReason</td>
<td>(keyword) The reason for which the finding is ignored: FALSE_POSITIVE, RISK_ACCEPTED or NOT_APPLICABLE</td>
</tr>
<tr>
<td>group</td>
<td>(keyword) XSS, SQL, INFO, PATH, CC, SSN_US or CUSTOM</td>
</tr>
<tr>
<td>owasp.name</td>
<td>(text) Name of the OWASP vulnerability.</td>
</tr>
<tr>
<td>owasp.code</td>
<td>(integer) Code associated with the OWASP vulnerability</td>
</tr>
<tr>
<td>wasc.name</td>
<td>(text) Name of the vulnerability.</td>
</tr>
<tr>
<td>wasc.code</td>
<td>(integer) Code of the vulnerability.</td>
</tr>
<tr>
<td>cwe.id</td>
<td>(integer) ID associated with CWE.</td>
</tr>
<tr>
<td>firstDetectedDate</td>
<td>(date) The date when the finding was first detected in the web application.</td>
</tr>
</tbody>
</table>
### Findings

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>lastDetectedDate</td>
<td>(date) The date when the finding was last detected in the web application.</td>
</tr>
<tr>
<td>lastTestedDate</td>
<td>(date) The date when the finding was last tested in the web application.</td>
</tr>
<tr>
<td>timesDetected</td>
<td>(integer) The count indicating the number of times the finding was detected.</td>
</tr>
<tr>
<td>severity level</td>
<td>(integer) The severity associated with the finding: 1, 2, 3, 4, 5</td>
</tr>
</tbody>
</table>
Option Profile Count

/qps/rest/3.0/count/was/optionprofile

[GET] [POST]

Returns the total number of option profiles in the user’s scope. Input elements are optional and are used to filter the number of option profiles included in the count.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The count includes web applications in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The ID of the option profile.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The name given to the option profile.</td>
</tr>
<tr>
<td>tags</td>
<td>Filter by tags applied.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) ID of the tag assigned to option profile.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to option profile.</td>
</tr>
</tbody>
</table>
### Qualys Web Application Scanning API

**Configuration**

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>createdDate</code></td>
<td>(date) The date when the option profile was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td><code>updatedDate</code></td>
<td>(date) The date when the option profile was updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td><code>usedByWebApps</code></td>
<td>(boolean) Web applications used/not used by the option profile.</td>
</tr>
<tr>
<td><code>usedBySchedules</code></td>
<td>(boolean) Scan schedules used/not used by the option profile.</td>
</tr>
<tr>
<td><code>owner.id</code></td>
<td>(Long with operator: EQUALS, IN, NOT EQUALS, GREATER or LESSER) ID of the owner who created the option profile.</td>
</tr>
<tr>
<td><code>owner.name</code></td>
<td>(text) Full name of the user who created the option profile.</td>
</tr>
<tr>
<td><code>owner.username</code></td>
<td>(text) Username of the owner who created the option profile. (like user_ab3).</td>
</tr>
</tbody>
</table>

#### Sample - Count - no criteria (GET)

**API request**

```bash
curl -u "USERNAME:PASSWORD" "https://qualysapi.qualys.com/qps/rest/3.0/count/was/optionprofile/
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>30</count>
</ServiceResponse>
```

#### Sample - Count - criteria (POST)
**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary@- "https://qualysapi.qualys.com/qps/rest/3.0/count/was/optionprofile/" < file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="IN">832265669,832295669,832285669</Criteria>
    <Criteria field="name" operator="CONTAINS">OP</Criteria>
    <Criteria field="tags" operator="NONE"></Criteria>
    <Criteria field="createdDate" operator="LESSER">2017-09-09</Criteria>
    <Criteria field="updatedDate" operator="LESSER">2017-09-09</Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
</ServiceResponse>
```

**XSD**

```
<platform_API_server>/qps/xsd/3.0/was/optionprofile.xsd
```
Search Option Profiles

/qps/rest/3.0/search/was/optionprofile

[POST]

Returns a list of option profiles which are in the user’s scope. Action logs are not included in the output.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The Output includes option profiles in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The ID of the option profile.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The name given to the option profile.</td>
</tr>
<tr>
<td>tags</td>
<td>Filter by tags applied.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) ID of the tag assigned to option profile.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to option profile.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the option profile was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date when the option profile was updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>usedByWebApps</td>
<td>(boolean) Web applications used/not used by the</td>
</tr>
</tbody>
</table>
### Qualys Web Application Scanning API

**Configuration**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>usedBySchedules</td>
<td>(boolean) Scan schedules used/not used by the option profile.</td>
</tr>
<tr>
<td>owner.id</td>
<td>(Long with operator: EQUALS, IN, NOT EQUALS, GREATER or LESSER) ID of the owner who created the option profile.</td>
</tr>
<tr>
<td>owner.name</td>
<td>(text) Full name of the user who created the option profile.</td>
</tr>
<tr>
<td>owner.username</td>
<td>(text) Username of the owner who created the option profile. (like user_ab3).</td>
</tr>
</tbody>
</table>

**Sample - Search - criteria (POST)**

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"--data-binary@"https://qualysapi.qualys.com/qps/rest/3.0/search/was/optionprofile/"<file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="IN">832265669,832295669,832285669</Criteria>
    <Criteria field="name" operator="CONTAINS">OP</Criteria>
    <Criteria field="tags" operator="NONE"></Criteria>
    <Criteria field="createdDate" operator="LESSER">2017-09-09</Criteria>
    <Criteria field="updatedDate" operator="LESSER">2017-09-09</Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
```
Qualys Web Application Scanning API
Configuration

<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <OptionProfile>
      <id>832285669</id>
      <name><![CDATA[My Option Profile]]></name>
      <owner>
        <id>8792415669</id>
        <username>user_ww</username>
        <firstName><![CDATA[Walter]]></firstName>
        <lastName><![CDATA[White]]></lastName>
      </owner>
      <tags>
        <count>0</count>
      </tags>
      <createdDate>2017-09-08T23:16:07Z</createdDate>
      <updatedDate>2017-09-08T23:16:07Z</updatedDate>
    </OptionProfile>
  </data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/optionprofile.xsd
Get Option Profile Details

/qps/rest/3.0/get/was/optionprofile/<id>

[GET]

View details for an option profile which is in the user’s scope. See “Search option profiles” to find a record ID to use as input.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The Output includes option profiles in the user’s scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies an option profile.

Click here for available operators

Samples

Sample - Get details of an option profile (GET)

Sample - Get details on option profile with SmartScan enabled (GET)

Sample - View details to know if action URI is enabled

Sample - Get details of an Option Profile with customized scan intensity (GET)

Sample - Get details of an option profile with enhanced crawling enabled (GET)

Sample - Get details of an option profile to know the detection scope (GET)

API request
curl -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/optionprofile/832265669"

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <OptionProfile>
            <id>832265669</id>
            <name><![CDATA[My Option Profile]]></name>
            <owner>
                <id>8792415669</id>
                <username>user_walter</username>
                <firstName><![CDATA[Walter]]></firstName>
                <lastName><![CDATA[White]]></lastName>
            </owner>
            <isDefault>false</isDefault>
            <tags>  
                <count>0</count>  
            </tags>
            <formSubmission>BOTH</formSubmission>
            <maxCrawlRequests>300</maxCrawlRequests>
            <timeoutErrorThreshold>200</timeoutErrorThreshold>
            <unexpectedErrorThreshold>20</unexpectedErrorThreshold>
            <parameterSet>
                <id>0</id>
                <name><![CDATA[Initial Parameters]]></name>
            </parameterSet>
            <ignoreBinaryFiles>false</ignoreBinaryFiles>
            <performance>LOW</performance>
            <bruteforceOption>MINIMAL</bruteforceOption>
            <comments>
                <count>2</count>
                <list>
                    <Comment>
                        <contents><![CDATA[some comments]]></contents>
                        <author>
                            <id>200639085669</id>
                            <username>user_walter</username>
                        </author>
                    </Comment>
                </list>
            </comments>
        </OptionProfile>
    </data>
</ServiceResponse>
```
Sample - Get details on option profile with SmartScan enabled (GET)

Want to use SmartScan? This feature must be enabled for your subscription. We can help you with this quickly - just contact your Technical Account Manager or Qualys Support.

API request

curl -u "USERNAME:PASSWORD" 
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/optionprofile/46733"
XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <OptionProfile>
            <id>467333</id>
            <name> <![CDATA[My Option Profile]]> </name>
            <owner>
                <id>4354</id>
                <username>user_aril</username>
                <firstName> <![CDATA[Ari]]> </firstName>
                <lastName> <![CDATA[Smith]]> </lastName>
            </owner>
            <isDefault>false</isDefault>
            <tags>
                <count>0</count>
            </tags>
            <formSubmission>BOTH</formSubmission>
            <maxCrawlRequests>300</maxCrawlRequests>
            <timeoutErrorThreshold>100</timeoutErrorThreshold>
            <unexpectedErrorThreshold>300</unexpectedErrorThreshold>
            <parameterSet>
                <id>15601</id>
                <name> <![CDATA[Test Paramset]]> </name>
            </parameterSet>
            <ignoreBinaryFiles>false</ignoreBinaryFiles>
            <smartScanSupport>true</smartScanSupport>
            <smartScanDepth>10</smartScanDepth>
            <performance>LOW</performance>
            <bruteforceOption>MINIMAL</bruteforceOption>
            <comments>
                <count>0</count>
            </comments>
        </OptionProfile>
    </data>
</ServiceResponse>
```
Sample - View details to know if action URI is enabled

Example: View the option profile details for the web application with ID #171683 to check if action URI is enabled or disabled.

API request

```
curl -u "USERNAME:PASSWORD" " -X GET -H "Content-type: text/xml" "https://qualysapi.qualys.com/portal-api/rest/3.0/get/was/optionprofile/176683"
```
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/portal-api/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>176683</id>
      <name> <![CDATA[My Option Profile - with action URI]]> </name>
      <owner>
        <id>336390</id>
        <username>john_doe</username>
        <firstName> <![CDATA[John]]> </firstName>
        <lastName> <![CDATA[Doe]]> </lastName>
      </owner>
      <isDefault>false</isDefault>
      <tags>
        <count>0</count>
      </tags>
      <formSubmission>BOTH</formSubmission>
      <maxCrawlRequests>200</maxCrawlRequests>
      <timeoutErrorThreshold>22</timeoutErrorThreshold>
      <unexpectedErrorThreshold>50</unexpectedErrorThreshold>
      <userAgent> <![CDATA[Mozilla/5.0 (Windows NT 6.2; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/27.0.1453.116 Safari/537.36]]> </userAgent>
      <parameterSet>
        <id>0</id>
        <name> <![CDATA[Initial Parameters]]> </name>
      </parameterSet>
      <ignoreBinaryFiles>true</ignoreBinaryFiles>
      <includeActionUriInFormId>true</includeActionUriInFormId>
      <smartScanSupport>false</smartScanSupport>
      <performance>LOW</performance>
    </OptionProfile>
  </data>
</ServiceResponse>
Sample - Get details of an Option Profile with customized scan intensity (GET)

Let us get details of an Option Profile with customized scan intensity.

**API request**

```
curl -u "USERNAME:PASSWORD" " -X GET -H "Content-type: text/xml" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/optionprofile/1608560"
```
Sample - Get details of an option profile with enhanced crawling enabled (GET)

**API request**

curl -u "USERNAME:PASSWORD" " -X GET -H "Content-type: text/xml" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/optionprofile/77683"

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>77683</id>
      <name><![CDATA[Sample Option Profile]]></name>
      <owner>
        <id>337590</id>
        <username>user_john</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Doe]]></lastName>
      </owner>
      <isDefault>false</isDefault>
    </OptionProfile>
  </data>
</ServiceResponse>
```
Qualys Web Application Scanning API
Configuration

Sample - Get details of an option profile to know the detection scope (GET)

API request

curl -u "USERNAME:PASSWORD" " -X GET -H "Content-type: text/xml" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/optionprofile/77683"

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
   <responseCode>SUCCESS</responseCode>
   <count>1</count>
   <data>
      <OptionProfile>
         <id>77683</id>
         <name>
            <![CDATA[Sample Option Profile]]>
         </name>
         <owner>

   </OptionProfile>
</data>
</ServiceResponse>
Qualys Web Application Scanning API
Configuration

XSD

<platform_API_server>/qps/xsd/3.0/was/optionprofile.xsd
Create a new Option Profile

/qps/rest/3.0/create/was/optionprofile

[POST]

Create a new option profile.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and ”Create Option Profile”.

Input Parameters

The element “name” (text) and ”OptionProfile” is required, where “name” is option profile name.

Click here for available operators

Samples

Create - minimum criteria (POST)
Create - multiple criteria (POST)
Create - disable error threshold values, set to 0 (POST)
Create - enable SmartScan (POST)
Create - enable action URI (POST)
Create - associate pre-defined detection category (POST)
Create an option profile with XSS Power Mode detection scope (POST)
Create - Enabling XSS Payloads for standard scan
Create - custom scan intensity (POST)
Create - Enhanced Crawling enabled (POST)
Create - Everything as detection scope

Create - SSL/TLS and Certificate issues

Sample - Create - minimum criteria (POST)

Create a new option profile with the name “My Option Profile - with defaults”. The default option profile settings are assigned automatically.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary@- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/optionprofile/" < file.xml

Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <data>
    <OptionProfile>
      <name><![CDATA[My Option Profile - with defaults]]></name>
    </OptionProfile>
  </data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>832265669</id>
      <name><![CDATA[My Option Profile - with defaults]]></name>
      <owner>
        <id>8792415669</id>
        <username>user_alex</username>
        <firstName><![CDATA[Alex]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
      </owner>
    </OptionProfile>
  </data>
</ServiceResponse>
Sample - Create - multiple criteria (POST)

Create a new option profile with the name “My Option Profile - All Fields”. The "name" setting is required in the request data, other settings are optional.
## API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary@-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/optionprofile/"
< file.xml
```
Note: “file.xml” contains the request POST data.

## Request POST data

```
<ServiceRequest>
  <data>
    <OptionProfile>
      <name><![CDATA[My Option Profile - All Fields]]></name>
      <timeoutErrorThreshold>22</timeoutErrorThreshold>
      <unexpectedErrorThreshold>50</unexpectedErrorThreshold>
      <formSubmission>BOTH</formSubmission>
      <maxCrawlRequests>200</maxCrawlRequests>
      <performance>LOW</performance>
      <bruteforceOption>USER_DEFINED</bruteforceOption>
      <parameterSet><id>15669</id></parameterSet>
      <isDefault>true</isDefault>
      <ignoreBinaryFiles>true</ignoreBinaryFiles>
      <userAgent><![CDATA[Mozilla/5.0 (Windows NT 6.2; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/27.0.1453.116 Safari/537.36]]></userAgent>
      <tags><set><Tag><id>75521225669</id></Tag></set></tags>
      <sensitiveContent>
        <customContents>zip code</customContents>
      </sensitiveContent>
      <comments>
        <set>
          <Comment>
            <contents><![CDATA[Some Comment]]></contents>
          </Comment>
        </set>
      </comments>
      <bruteforceList>
        <id>74005669</id>
      </bruteforceList>
      <detection>
        <includedSearchLists>
          <set>
            <SearchList>
              <id>3496185669</id>
            </SearchList>
          </set>
        </includedSearchLists>
      </detection>
    </OptionProfile>
  </data>
</ServiceRequest>
```
XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>832275669</id>
      <name><![CDATA[My Option Profile - All Fields]]></name>
      <owner>
        <id>8792415669</id>
        <username>user_cindy</username>
        <firstName><![CDATA[Cindy]]></firstName>
        <lastName><![CDATA[Green]]></lastName>
      </owner>
      <isDefault>true</isDefault>
      <tags>
        <count>1</count>
        <list>
          <Tag>
            <id>75521225669</id>
            <name><![CDATA[Business Units]]></name>
          </Tag>
        </list>
      </tags>
    </OptionProfile>
  </data>
</ServiceResponse>
<tags>
<formSubmission>BOTH</formSubmission>
<maxCrawlRequests>200</maxCrawlRequests>
<timeoutErrorThreshold>22</timeoutErrorThreshold>
<unexpectedErrorThreshold>50</unexpectedErrorThreshold>
<userAgent><![CDATA[Mozilla/5.0 (Windows NT 6.2; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/27.0.1453.116 Safari/537.36]]></userAgent>
<parameterSet>
    <id>15669</id>
    <name><![CDATA[Custom Parameters]]></name>
</parameterSet>
<ignoreBinaryFiles>true</ignoreBinaryFiles>
<performance>LOW</performance>
<bruteforceOption>USER_DEFINED</bruteforceOption>
<bruteforceList>
    <id>74005669</id>
    <name><![CDATA[BFL]]></name>
</bruteforceList>
<detection>
    <includedSearchLists>
        <count>1</count>
        <list>
            <SearchList>
                <id>3496185669</id>
            </SearchList>
        </list>
    </includedSearchLists>
    <excludedSearchLists>
        <count>2</count>
        <list>
            <SearchList>
                <id>3496175669</id>
            </SearchList>
            <SearchList>
                <id>3496165669</id>
            </SearchList>
        </list>
    </excludedSearchLists>
</detection>
<comments>
    <count>1</count>
    <list>
        <Comment>
            <contents><![CDATA[Some Comment]]></contents>
        </Comment>
    </list>
</comments>
Sample - Create - disable error threshold values, set to 0 (POST)

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"--
data-binary@-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/optionprofile/"
< file.xml
Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <OptionProfile>
      <name><![CDATA[My OP - with no threshold specified]]></name>
      <timeoutErrorThreshold>0</timeoutErrorThreshold>
      <unexpectedErrorThreshold>0</unexpectedErrorThreshold>
    </OptionProfile>
  </data>
</ServiceRequest>
```
XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <OptionProfile>
            <id>453133</id>
            <name>
                <![CDATA[My OP - with no threshold specified]]>
            </name>
            <owner>
                <id>4354</id>
                <username>user_amy</username>
                <firstName>
                    <![CDATA[Amy]]>
                </firstName>
                <lastName>
                    <![CDATA[Kim]]>
                </lastName>
            </owner>
            <isDefault>false</isDefault>
            <tags>
                <count>0</count>
            </tags>
            <formSubmission>BOTH</formSubmission>
            <maxCrawlRequests>300</maxCrawlRequests>
            <parameterSet>
                <id>0</id>
                <name>
                    <![CDATA[Initial Parameters]]>
                </name>
            </parameterSet>
            <ignoreBinaryFiles>false</ignoreBinaryFiles>
            <performance>LOW</performance>
            <bruteforceOption>MINIMAL</bruteforceOption>
            <comments>
                <count>0</count>
            </comments>
        </OptionProfile>
    </data>
</ServiceResponse>
Sample - Create - enable SmartScan (POST)

Want to use SmartScan? This feature must be enabled for your subscription. We can help you with this quickly - just contact your Technical Account Manager or Qualys Support.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"--data-binary@"https://qualysapi.qualys.com/qps/rest/3.0/create/was(optionprofile)" < file.xml
Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <OptionProfile>
      <name>My Option Profile</name>
      <smartScanSupport>true</smartScanSupport>
      <smartScanDepth>10</smartScanDepth>
    </OptionProfile>
  </data>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
```

```xml
</OptionProfile>
```

```xml
```
Sample - Create - enable action URI (POST)

Create a new option profile with the name “My Option Profile” to include action URI. The default option profile settings are assigned automatically.

API request

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST"--data-binary@
```
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/optionprofile"
< file.xml
Note: “file.xml” contains the request POST data.

Request POST data
<ServiceRequest>
  <data>
    <OptionProfile>
      <name>
        <![CDATA[My Option Profile]]>
      </name>
      <timeoutErrorThreshold>22</timeoutErrorThreshold>
      <unexpectedErrorThreshold>50</unexpectedErrorThreshold>
      <formSubmission>BOTH</formSubmission>
      <maxCrawlRequests>200</maxCrawlRequests>
      <performance>LOW</performance>
      <bruteforceOption>DISABLED</bruteforceOption>
      <isDefault>true</isDefault>
      <ignoreBinaryFiles>true</ignoreBinaryFiles>
      <includeActionUriInFormId>true</includeActionUriInFormId>
      <userAgent>
        <![CDATA[Mozilla/5.0 (Windows NT 6.2; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/27.0.1453.116 Safari/537.36]]>
      </userAgent>
      <sensitiveContent>
        <customContents>zip code</customContents>
      </sensitiveContent>
      <comments>
        <set>
          <Comment>
            <contents>
              <![CDATA[This is a test comment.]]>
            </contents>
          </Comment>
        </set>
      </comments>
    </OptionProfile>
  </data>
</ServiceRequest>

XML response
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/portal-api/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>171683</id>
      <name>
        <![CDATA[My Option Profile - with action URI]]>
      </name>
      <owner>
        <id>336390</id>
        <username>john_doe</username>
        <firstName>
          <![CDATA[John]]>
        </firstName>
        <lastName>
          <![CDATA[Doe]]>
        </lastName>
      </owner>
      <isDefault>false</isDefault>
      <tags>
        <count>0</count>
      </tags>
      <formSubmission>BOTH</formSubmission>
      <maxCrawlRequests>200</maxCrawlRequests>
      <timeoutErrorThreshold>22</timeoutErrorThreshold>
      <unexpectedErrorThreshold>50</unexpectedErrorThreshold>
      <userAgent>
        <![CDATA[Mozilla/5.0 (Windows NT 6.2; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/27.0.1453.116 Safari/537.36]]>
      </userAgent>
      <parameterSet>
        <id>0</id>
        <name>
          <![CDATA[Initial Parameters]]>
        </name>
      </parameterSet>
      <ignoreBinaryFiles>true</ignoreBinaryFiles>
      <includeActionUriInFormId>true</includeActionUriInFormId>
      <smartScanSupport>false</smartScanSupport>
    </OptionProfile>
  </data>
</ServiceResponse>
<performance>LOW</performance>
<bruteforceOption>DISABLED</bruteforceOption>
<comments>
  <count>1</count>
  <list>
    <Comment>
      <contents>
        <![CDATA[User Comment]]>
      </contents>
      <createdDate>2017-11-18T15:59:55Z</createdDate>
    </Comment>
  </list>
</comments>
<sensitiveContent>
  <creditCardNumber>false</creditCardNumber>
  <socialSecurityNumber>false</socialSecurityNumber>
  <customContents>zip code</customContents>
</敏感数据>
<createdDate>2017-11-18T15:59:49Z</createdDate>
<createdBy>
  <id>336390</id>
  <username>john_doe</username>
  <firstName>
    <![CDATA[John]]>
  </firstName>
  <lastName>
    <![CDATA[Doe]]>
  </lastName>
</createdBy>
<updatedDate>2017-11-18T15:59:49Z</updatedDate>
<updatedBy>
  <id>336390</id>
  <username>john_doe</username>
  <firstName>
    <![CDATA[John]]>
  </firstName>
  <lastName>
    <![CDATA[Doe]]>
  </lastName>
</updatedBy>
</OptionProfile>
</data>
</ServiceResponse>
Sample - Create - associate pre-defined detection category

Create a new option profile and associate pre-defined detection categories with Option Profile.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>detectionCategory={Keyword}</td>
<td>We now support the following new detection categories in your option profile:</td>
</tr>
<tr>
<td></td>
<td>--XSS, in request header</td>
</tr>
<tr>
<td></td>
<td>--Denial of Service</td>
</tr>
<tr>
<td></td>
<td>--XSS</td>
</tr>
<tr>
<td></td>
<td>--Path-Related vulnerabilities</td>
</tr>
<tr>
<td></td>
<td>--OWASP Top 10 (2017)</td>
</tr>
<tr>
<td></td>
<td>--Authentication &amp; Session Management</td>
</tr>
<tr>
<td></td>
<td>--Cross-Site Request Forgery</td>
</tr>
<tr>
<td></td>
<td>--XML External Entity (XXE) vulnerabilities</td>
</tr>
<tr>
<td></td>
<td>--Flash-Related vulnerabilities</td>
</tr>
<tr>
<td></td>
<td>--Information Disclosure</td>
</tr>
<tr>
<td></td>
<td>--SQL Injection</td>
</tr>
<tr>
<td></td>
<td>--Clickjacking</td>
</tr>
<tr>
<td></td>
<td>--SQL Injection, in request header</td>
</tr>
<tr>
<td></td>
<td>--CMS identification (type, version, and plugins)</td>
</tr>
<tr>
<td></td>
<td>--Apache vulnerabilities (Struts &amp; other)</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API
Configuration

---

Correlation categories:

- Uncategorized
- CMS vulnerabilities
- Open Redirect

Note: `<detectionCategories>` is mutually exclusive with `<includedSearchLists>` and `<excludedSearchLists>`.

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-
  "https://qualysapi.qualys.com/qps/rest/3.0/create/was/optionprofile" < file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <OptionProfile>
      <name>sample option profile with detection category</name>
      <detection>
        <detectionCategories>
          <set>
            <DetectionCategory>
              <name>Denial of Service</name>
            </DetectionCategory>
          </set>
        </detectionCategories>
      </detection>
    </OptionProfile>
  </data>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd"/>
```
Sample - Create an option profile with XSS Power Mode detection scope

You can execute specialized scan that performs comprehensive tests for cross-site scripting vulnerabilities using the new option profile with XSS Power Mode detection scope that we have introduced. The detection scope performs tests using the standard XSS payloads, which detect the most common instances of XSS, but also with additional payloads that can identify XSS in certain, less-common situations. Running a scan with option profile
that has XSS Power Mode detection scope will provide the best assurance that your web application is free from XSS vulnerabilities.

To launch a scan in the XSS power mode, you need to set the `<xssPowerMode>` element to true under `<detection>` element.

Note: The includedSearchLists/excludeSearchLists, detectionCategories, xssPowerMode elements are mutually exclusive elements. Thus, you can set only one of the elements under detection element.

### API request
```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/optionprofile" < file.xml
```
Note: “file.xml” contains the request POST data.

### Request POST data
```
<ServiceRequest>
  <data>
    <OptionProfile>
      <name>Sample Option Profile With XSS</name>
      <detection>
        <xssPowerMode>true</xssPowerMode>
      </detection>
    </OptionProfile>
  </data>
</ServiceRequest>
```

### XML response
```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>1045129</id>
      <name><![CDATA[Launch XSS Power Mode Scan]]></name>
    </OptionProfile>
  </data>
</ServiceResponse>
```
Qualys Web Application Scanning API
Configuration

<owner>
  <id>412791</id>
  <username>user_john</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</owner>

<isDefault>false</isDefault>
<tags>
  <count>0</count>
</tags>
<formSubmission>BOTH</formSubmission>
<maxCrawlRequests>300</maxCrawlRequests>
<timeoutErrorThreshold>100</timeoutErrorThreshold>
<unexpectedErrorThreshold>300</unexpectedErrorThreshold>
<parameterSet>
  <id>0</id>
  <name><![CDATA[Initial Parameters]]></name>
</parameterSet>
<ignoreBinaryFiles>false</ignoreBinaryFiles>
<includeActionUriInFormId>false</includeActionUriInFormId>
<smartScanSupport>false</smartScanSupport>
<performance>LOW</performance>
<bruteforceOption>MINIMAL</bruteforceOption>
<detection>
  <xssPowerMode>true</xssPowerMode>
</detection>
<comments>
  <count>0</count>
</comments>
<sensitiveContent>
  <creditCardNumber>false</creditCardNumber>
  <socialSecurityNumber>false</socialSecurityNumber>
</sensitiveContent>
<createdDate>2018-07-25T03:45:12Z</createdDate>
<createdBy>
  <owner>
    <id>412791</id>
    <username>user_john</username>
    <firstName><![CDATA[John]]></firstName>
    <lastName><![CDATA[Doe]]></lastName>
  </owner>
</createdBy>
<updatedDate>2018-07-25T03:45:12Z</updatedDate>
Sample - Enabling XSS Payloads for standard scan

You can enable comprehensive tests for cross-site scripting vulnerabilities to be executed during our standard scan using the new parameter in option profile. The comprehensive tests includes XSS with exhaustive set of payloads including set of standard payloads. Running a scan with XSS payloads option enabled in the detection scope of standard scan will provide the best assurance that your web application is free from XSS vulnerabilities. However, enabling this option leads to significant increase in the scan time.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>enableXssPayloads</td>
<td>(boolean) A flag to indicate if XSS payloads should be enabled or disabled during the scan. If the flag is set to true, comprehensive tests for cross-site scripting vulnerabilities are executed during the scan.</td>
</tr>
</tbody>
</table>

Example:

```
<detection>
    <detectionScope>CORE</detectionScope>
    <enableXssPayloads>true</enableXssPayloads>
</detection>
```

Let us create an option profile to launch a standard scan with comprehensive tests for cross-site scripting vulnerabilities enabled.
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --databinary@- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/optionprofile" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <data>
    <OptionProfile>
      <name>Sample Option Profile With XSS Payloads</name>
      <detection>
        <detectionScope>CORE</detectionScope>
        <enableXssPayloads>true</enableXssPayloads>
      </detection>
    </OptionProfile>
  </data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>81333</id>
      <name><![CDATA[Launch Scan with XSS Payloads enabled]]></name>
      <owner>
        <id>412791</id>
        <username>user_john</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Doe]]></lastName>
      </owner>
      <isDefault>false</isDefault>
      <tags>
        <count>0</count>
      </tags>
      <formSubmission>BOTH</formSubmission>
    </OptionProfile>
  </data>
</ServiceResponse>
<maxCrawlRequests>300</maxCrawlRequests>
<timeoutErrorThreshold>100</timeoutErrorThreshold>
<unexpectedErrorThreshold>300</unexpectedErrorThreshold>

<parameterSet>
  <id>0</id>
  <name>
    <![CDATA[Initial Parameters]]>
  </name>
</parameterSet>

<ignoreBinaryFiles>false</ignoreBinaryFiles>
<includeActionUriInFormId>false</includeActionUriInFormId>
<enhancedCrawling>false</enhancedCrawling>
<smartScanSupport>false</smartScanSupport>
<performance>LOW</performance>
<bruteforceOption>MINIMAL</bruteforceOption>
<detection>
  <detectionScope>CORE</detectionScope>
  <enableXssPayloads>true</enableXssPayloads>
</detection>

<comments>
  <count>0</count>
</comments>

<sensitiveContent>
  <creditCardNumber>false</creditCardNumber>
  <socialSecurityNumber>false</socialSecurityNumber>
</sensitiveContent>

<createdDate>2019-10-04T11:11:59Z</createdDate>

<owner>
  <id>412791</id>
  <username>user_john</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</owner>

<updatedDate>2018-07-25T03:45:12Z</updatedDate>

<owner>
  <id>412791</id>
  <username>user_john</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</owner>

</OptionProfile>
Sample - Create an option profile with custom scan intensity

You can define your custom scan intensity in the option profile and thus control the scan performance accordingly to your configured settings. Using our new parameter <customperformance> you can further configure the number of threads to be used to scan each host and the delay between requests.

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --databinary@-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/optionprofile" < file.xml
Note: “file.xml” contains the request POST data.
```

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <OptionProfile>
      <name><![CDATA[Option Profile with Custom Scan Intensity]]></name>
      <customPerformance>
        <numOfHttpThreads>5</numOfHttpThreads>
        <delayBetweenRequests>100</delayBetweenRequests>
      </customPerformance>
    </OptionProfile>
  </data>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>1608560</id>
    </OptionProfile>
  </data>
</ServiceResponse>
```
Sample - Create an option profile with Enhanced Crawling enabled

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary@- "https://qualysapi.qualys.com/qps/rest/3.0/create/was/optionprofile" < file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <data>
    <OptionProfile>
      <name><![CDATA[Sample Option Profile]]></name>
      <enhancedCrawling>true</enhancedCrawling>
    </data>
  </ServiceRequest>
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
```

<name>
  <![CDATA[Option Profile with Custom Scan Intensity]]>
</name>

... 
<smartScanSupport>false</smartScanSupport>
<customPerformance>
  <numOfHttpThreads>5</numOfHttpThreads>
  <delayBetweenRequests>100</delayBetweenRequests>
</customPerformance>
<bruteforceOption>MINIMAL</bruteforceOption>
...

</OptionProfile>
</data>
</ServiceResponse>
Qualys Web Application Scanning API
Configuration

Sample - Create - Everything as detection scope

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --databinary@-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/optionprofile" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

```xml
<ServiceRequest>
  <data>
    <OptionProfile>
      <name><![CDATA[Sample Option Profile]]></name>
      <detection>
        <detectionScope>EVERYTHING</detectionScope>
      </detection>
    </OptionProfile>
  </data>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/profileoption.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>78744</id>
      <name><![CDATA[Sample Option Profile]]></name>
      <owner>
        <id>337590</id>
        <username>user_john</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Doe]]></lastName>
      </owner>
      <isDefault>false</isDefault>
      <tags>
        <count>0</count>
      </tags>
      <formSubmission>BOTH</formSubmission>
      <maxCrawlRequests>300</maxCrawlRequests>
      <timeoutErrorThreshold>100</timeoutErrorThreshold>
      <unexpectedErrorThreshold>300</unexpectedErrorThreshold>
    </OptionProfile>
  </data>
</ServiceResponse>
```
Qualys Web Application Scanning API

Configuration

Sample - Create - SSL/TLS and Certificate issues

You can execute specialized scan that performs tests for SSL/TLS and Certificate related vulnerabilities using the option profile with SSL/TLS and Certificate category configured in the API request.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --databinary@"https://qualysapi.qualys.com/qps/rest/3.0/create/was/optionprofile" < file.xml

Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <data>
    <OptionProfile>
      <name><![CDATA[Option Profile with SSL data]]></name>
      <detection>
      </detection>
    </OptionProfile>
  </data>
</ServiceResponse>
```
<detectionCategories>
   <set>
      <DetectionCategory>
         <name>SSL/TLS and Certificate issues</name>
      </DetectionCategory>
   </set>
</detectionCategories>
</detection>
</OptionProfile>
</data>
</ServiceRequest>

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
   <responseCode>SUCCESS</responseCode>
   <count>1</count>
   <data>
      <OptionProfile>
         <id>897483</id>
         <name><![CDATA[My Option Profile - SSL data]]></name>
         <owner>
            <id>412791</id>
            <username>user_john</username>
            <firstName><![CDATA[John]]></firstName>
            <lastName><![CDATA[Doe]]></lastName>
         </owner>
         <isDefault>false</isDefault>
         <tags>
            <count>0</count>
         </tags>
         ...
         <detection>
            <detectionCategories>
               <count>1</count>
               <list>
                  <DetectionCategory>
                     <id>152</id>
                     <name>SSL/TLS and Certificate issues</name>
                  </DetectionCategory>
               </list>
            </detectionCategories>
         </detection>
      </OptionProfile>
   </data>
</ServiceResponse>
```
</DetectionCategory>
</list>
</detectionCategories>
<enableXssPayloads>false</enableXssPayloads>
</detection>
...
</OptionProfile>
</data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/optionprofile.xsd
Update an Option Profile

/qps/rest/3.0/update/was/optionprofile/<id>

[POST]

Update an option profile which is in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and "Update Option Profile".

Input Parameters

The element “id” (integer) is required, where “id” identifies an option profile. Additional elements are optional and must be supplied in POST XML data. At least one of the following elements must be set: name, isDefault, owner, tags, formSubmission, maxCrawlRequests, userAgent, parameterSet, ignoreBinaryFiles, performance, bruteforceOption, bruteforceList, numberOfAttempts, detection, sensitiveContent, comments.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The ID of the option profile.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The name given to the option profile.</td>
</tr>
<tr>
<td>tags</td>
<td>Filter by tags applied.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) ID of the tag assigned to option profile.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to option profile.</td>
</tr>
<tr>
<td>owner.id</td>
<td>(Long with operator: EQUALS, IN, NOT EQUALS, GREATER or LESSER) ID of the owner who created the option profile.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>owner.name</td>
<td>(text) Full name of the user who created the option profile.</td>
</tr>
<tr>
<td>owner.username</td>
<td>(text) Username of the owner who created the option profile. (like user_ab3).</td>
</tr>
<tr>
<td>isDefault</td>
<td>Default option profile for the subscription</td>
</tr>
<tr>
<td>formSubmission</td>
<td>(keyword) Type of form: None, Post, Get, POST &amp; GET</td>
</tr>
<tr>
<td>maxCrawlRequests</td>
<td>Total number of links and forms to follow and test within the scan scope. If performing a Discovery Scan, this is the maximum links that will be crawled, as there will not be any testing performed.</td>
</tr>
<tr>
<td>userAgent</td>
<td>Stores the browser and OS details.</td>
</tr>
<tr>
<td>parameterSet</td>
<td>A parameter set tells us the request parameter settings you would like us to inject into your web applications during scanning. We provide a default one and it is easy to configure more. Once defined just select the parameter set name in your scan’s option profile.</td>
</tr>
<tr>
<td>ignoreBinaryFiles</td>
<td>If you choose these option files with extension zip, pdf, doc are not scanned.</td>
</tr>
<tr>
<td>performance</td>
<td>(keyword) Scan Intensity: LOWEST, LOW, MEDIUM, HIGH, MAXIMUM.</td>
</tr>
<tr>
<td>customPerformance*</td>
<td>Configure the custom intensity level for web application scans.</td>
</tr>
<tr>
<td>Example:</td>
<td>&lt;customPerformance&gt; &lt;numOfHttpThreads&gt;10&lt;/numOfHttpThreads&gt; &lt;delayBetweenRequests&gt;5&lt;/delayBetweenRequests&gt; &lt;/customPerformance&gt;</td>
</tr>
<tr>
<td>Note:</td>
<td>performance and customPerformance are mutually exclusive parameters and cannot be used together. You</td>
</tr>
</tbody>
</table>
### Qualys Web Application Scanning API Configuration

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>numOfHttpThreads</strong></td>
<td>(integer) Number of threads to be used to scan each host. The valid range is from 1 to 10.</td>
</tr>
<tr>
<td><strong>delayBetweenRequests</strong></td>
<td>(integer) The duration of delay introduced by WAS in between the scanning engine requests sent to the applications server. The valid range is from 0 to 2000 milliseconds.</td>
</tr>
<tr>
<td><strong>bruteforceOption</strong></td>
<td>The level of brute forcing you prefer with options ranging from “Minimal” to “Exhaustive”.</td>
</tr>
<tr>
<td><strong>bruteforceList</strong></td>
<td>(keyword: User List/SYSTEM LIST)</td>
</tr>
<tr>
<td></td>
<td>System list: we’ll attempt to guess the password for each detected login ID.</td>
</tr>
<tr>
<td></td>
<td>User list: to select a bruteforce list defined in your account.</td>
</tr>
<tr>
<td><strong>numberOfAttempts</strong></td>
<td>The threshold to be reached before stopping the scan. If you deactivate this settings, the scan will keep running no matter how many errors it will find.</td>
</tr>
<tr>
<td><strong>detection</strong></td>
<td>(keyword) Select if scans launched with this profile shall perform a full assessment for all WAS detections the engine is able to discover, or if the scan shall focus on the detection of specific vulnerabilities and/or information: Core, Categories, Custom Search list, XSS Power Mode, Everything.</td>
</tr>
<tr>
<td></td>
<td>If &lt;detectionScope&gt; is present then the detection scope = CORE or EVERYTHING</td>
</tr>
<tr>
<td></td>
<td>Core: Core scope includes vulnerabilities that Qualys considers most common in today’s web applications. It does not include all the vulnerabilities that WAS can detect.</td>
</tr>
<tr>
<td></td>
<td>Everything: Everything scope includes all the vulnerabilities that WAS can detect.</td>
</tr>
<tr>
<td></td>
<td>Example:</td>
</tr>
</tbody>
</table>
### Qualys Web Application Scanning API

#### Configuration

**<detection>**

- **<detectionScope>EVERYTHING</detectionScope>**

  If <includedSearchLists> or <excludedSearchLists> are present then the detection scope = CUSTOM

  If <detectionCategories> is present then the detection scope = CATEGORY

  if <xssPowerMode> is true then the detection scope = XSS

  Note: The <includedSearchLists>, <excludedSearchLists>, <detectionCategories>, <xssPowerMode>, <detectionScope> elements are mutually exclusive elements.

---

<table>
<thead>
<tr>
<th>(enableXssPayloads) (boolean)</th>
<th>A flag to indicate if XSS payloads should be enabled or disabled during the scan. If the flag is set to true, comprehensive tests for cross-site scripting vulnerabilities are executed during the scan.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Example:</td>
</tr>
<tr>
<td></td>
<td>&lt;detection&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;detectionScope&gt;CORE&lt;/detectionScope&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;enableXssPayloads&gt;true&lt;/enableXssPayloads&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/detection&gt;</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>sensitiveContent</th>
<th>Credit Card Numbers, Social Security Numbers (US), Custom Contents.</th>
</tr>
</thead>
</table>

---

<table>
<thead>
<tr>
<th>enhancedCrawling</th>
<th>(boolean) Improve scan coverage for your web application with the enhanced crawling enabled. We will re-crawl individual directories present in the links which are found during crawling.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>For example, if the following link is found during crawling:</td>
</tr>
<tr>
<td></td>
<td><a href="https://www.example.com/foo/abc/xyz/register.php">https://www.example.com/foo/abc/xyz/register.php</a></td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API

Configuration

If the enhanced crawling is enabled, it will first make a request to https://www.example.com/foo/abc/xyz and will then remove the directory "xyz/" from the URL and crawl, https://www.example.com/foo/abc/

and later it will further remove "abc/" and will crawl https://www.example.com/foo/.

All the links found during this process of removal and re-crawling will get added to the crawl queue thus improving the scan coverage.

<table>
<thead>
<tr>
<th>comments</th>
<th>User-defined comments.</th>
</tr>
</thead>
</table>

Samples

**Update - minimum criteria (POST)**

**Update - multiple settings (POST)**

**Update - owner (POST)**

**Update - custom threshold values (POST)**

**Update - disable action URI (POST)**

**Update - Detection Category (POST)**

**Update Option Profile for Custom Scan Intensity (POST)**

**Update an Option Profile to disable enhanced crawling (POST)**

**Update option profile to change detection scope to Everything**

**Update Option Profile to enable XSS payload**

**Update option profile with "SSL/TLS and Certificate issues"**

Sample - Update - minimum criteria (POST)

Change the option profile name to “Update Option Profile - title” for option profile ID 832265669.
## API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"--data-binary@-
"https://qualysapi.qualys.com/qps/rest/3.0/update/was/optionprofile/832265669"  < file.xml
Note: “file.xml” contains the request POST data.
```

## Request POST data

```
<ServiceRequest>
  <data>
    <OptionProfile>
      <name><![CDATA[Update Option Profile - title ]]]></name>
    </OptionProfile>
  </data>
</ServiceRequest>
```

## XML response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>832265669</id>
    </OptionProfile>
  </data>
</ServiceResponse>
```

### Sample - Update - multiple settings (POST)

Update multiple option profile settings for option profile ID 832275669.

## API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"--data-binary@-
"https://qualysapi.qualys.com/qps/rest/3.0/update/was/optionprofile/832275669"  < file.xml
Note: “file.xml” contains the request POST data.
```
Request POST data

<ServiceRequest>
  <data>
    <OptionProfile>
      <name> <![CDATA[My Option Profile - All Fields]]> </name>
      <formSubmission> BOTH </formSubmission>
      <maxCrawlRequests> 100 </maxCrawlRequests>
      <performance> HIGH </performance>
      <bruteforceOption> USER_DEFINED </bruteforceOption>
      <parameterSet> <id> 15669 </id> </parameterSet>
      <isDefault> false </isDefault>
      <ignoreBinaryFiles> false </ignoreBinaryFiles>
      <userAgent> <![CDATA[Mozilla/5.0 (Windows NT 6.2; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/27.0.1453.116 Safari/537.36]]> </userAgent>
      <tags> <set> <Tag> <id> 75521225669 </id> </Tag> </set> </tags>
      <sensitiveContent>
        <customContents> zip code </customContents>
      </sensitiveContent>
      <comments>
        <set>
          <Comment>
            <contents> <![CDATA[Comment 2]]> </contents>
          </Comment>
        </set>
      </comments>
      <bruteforceList>
        <id> 74005669 </id>
      </bruteforceList>
    </OptionProfile>
    <detection>
      <includedSearchLists>
        <set>
          <SearchList> <id> 3496185669 </id> </SearchList>
        </set>
      </includedSearchLists>
      <excludedSearchLists>
        <set>
          <SearchList> <id> 3496175669 </id> </SearchList>
          <SearchList> <id> 3496165669 </id> </SearchList>
        </set>
      </excludedSearchLists>
    </detection>
  </data>
</ServiceRequest>
Sample - Update - owner (POST)
Update the option profile owner.

API request
```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"--
data-binary@"https://qualysapi.qualys.com/qps/rest/3.0/update/was/optionprofile/123456" < file.xml
```
Note: “file.xml” contains the request POST data.

Request POST data
```
<ServiceRequest>
  <data>
    <OptionProfile>
      <owner><id>123456</id></owner>
    </OptionProfile>
  </data>
</ServiceRequest>
```
Qualys Web Application Scanning API
Configuration

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
   <responseCode>SUCCESS</responseCode>
   <count>1</count>
   <data>
      <OptionProfile>
         <id>123456</id>
      </OptionProfile>
   </data>
</ServiceResponse>

Sample - Update - custom threshold values (POST)

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary@- "https://qualysapi.qualys.com/qps/rest/3.0/update/was/optionprofile/452933" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
   <data>
      <OptionProfile>
         <name><![CDATA[My OP - with custom threshold values]]></name>
         <timeoutErrorThreshold>200</timeoutErrorThreshold>
         <unexpectedErrorThreshold>20</unexpectedErrorThreshold>
      </OptionProfile>
   </data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
   <responseCode>SUCCESS</responseCode>
   <count>1</count>
Qualys Web Application Scanning API
Configuration

Sample - Update - disable action URI (POST)

Update the Option Profile to disable Action URI.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST"--data-binary@"https://qualysapi.qualys.com/qps/rest/3.0/update/was/optionprofile/176683" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

<ServiceRequest>
  <data>
    <OptionProfile>
      <name><![CDATA[My Option Profile - with action URI]]></name>
      <includeActionUriInFormId>false</includeActionUriInFormId>
    </OptionProfile>
  </data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/portal-api/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>176683</id>
    </OptionProfile>
  </data>
</ServiceResponse>
Sample - Update - Detection Category (POST)

Update the detection scope in the Option Profile.

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST"--
data-binary@- "https://qualysapi.qualys.com/qps/rest/3.0/update/was/optionprofile/17 6683"  < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <OptionProfile>
      <detection>
        <detectionCategories>
          <remove>
            <DetectionCategory>
              <name>Denial of Service</name>
            </DetectionCategory>
          </remove>
          <add>
            <DetectionCategory>
              <name>SQL Injection</name>
            </DetectionCategory>
          </add>
        </detectionCategories>
      </detection>
    </OptionProfile>
  </data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
Sample - Update Option Profile for Custom Scan Intensity (POST)

Let us update an Option Profile with customized scan intensity.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST" --data-binary @
"https://qualysapi.qualys.com/qps/rest/3.0/update/was/optionprofile/1608560" < file.xml
Note: “file.xml” contains the request POST data.

**Request POST data**

```xml
<ServiceRequest>
  <data>
    <OptionProfile>
      <name><![CDATA[Update Option Profile with Custom Scan Intensity]]></name>
      <customPerformance>
        <numOfHttpThreads>10</numOfHttpThreads>
        <delayBetweenRequests>20</delayBetweenRequests>
      </customPerformance>
    </OptionProfile>
  </data>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
```
Sample - Update an Option Profile to disable enhanced crawling (POST)

Let us update an Option Profile with customized scan intensity.

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"--data-binary@-
"https://qualysapi.qualys.com/qps/rest/3.0/update/was/optionprofile/832265669" < file.xml

Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <data>
    <OptionProfile>
      <enhancedCrawling>false</enhancedCrawling>
    </OptionProfile>
  </data>
</ServiceRequest>
```

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>832265669</id>
    </OptionProfile>
  </data>
</ServiceResponse>
```

Sample - Update option profile to change detection scope to Everything

**API request**
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary@- "https://qualysapi.qualys.com/qps/rest/3.0/update/was/optionprofile/832265669" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data

```xml
<ServiceRequest>
  <data>
    <OptionProfile>
      <detection>
        <detectionScope>EVERYTHING</detectionScope>
      </detection>
    </OptionProfile>
  </data>
</ServiceRequest>
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>832265669</id>
    </OptionProfile>
  </data>
</ServiceResponse>
```

Sample - Update Option Profile to enable XSS payload

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary@- "https://qualysapi.qualys.com/qps/rest/3.0/update/was/optionprofile/16003" < file.xml
Note: “file.xml” contains the request POST data.

Request POST data
<ServiceRequest>
  <data>
    <OptionProfile>
      <name>Sample Option Profile With XSS Payloads</name>
      <detection>
        <detectionScope>CORE</detectionScope>
        <enableXssPayloads>true</enableXssPayloads>
      </detection>
    </OptionProfile>
  </data>
</ServiceRequest>

XML response
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>16003</id>
    </OptionProfile>
  </data>
</ServiceResponse>

Sample - Update option profile with "SSL/TLS and Certificate issues"

API request
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary@"https://qualysapi.qualys.com/qps/rest/3.0/update/was/optionprofile" < file.xml
Note: "file.xml" contains the request POST data.

Request POST data
<ServiceRequest>
  <data>
    <OptionProfile>
      <detection>
        <detectionCategories>
          <set>
<DetectionCategory>
    <name>SSL/TLS and Certificate issues</name>
</DetectionCategory>
</detectionCategories>
</detection>
</OptionProfile>
</data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <OptionProfile>
            <id>897483</id>
        </OptionProfile>
    </data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/optionprofile.xsd
Delete an Option Profile

/qps/rest/3.0/delete/was/optionprofile/<id>

/qps/rest/3.0/delete/was/optionprofile

[POST]

Delete an option profile that is in the user’s scope. Upon success, the output is a list of IDs for the option profiles that were deleted.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and “Delete Option Profile”.

Input Parameters

Optional elements are used to retrieve option profiles to delete. When multiple elements are specified, parameters are combined using a logical AND. All dates must be entered in UTC date/time format.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>(text) The name given to the option profile.</td>
</tr>
<tr>
<td>owner</td>
<td>(text) Username of the owner who created the option profile. (like user_ab3).</td>
</tr>
<tr>
<td>tags</td>
<td>(text) Filter by tags applied to option profile.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the option profile was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date when the option profile was updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>usedByWebApps</td>
<td>(boolean) Web applications used/not used by the option profile.</td>
</tr>
</tbody>
</table>
usedBySchedules (boolean) Scan schedules used/not used by the option profile.

Sample - Delete specific option profile (POST)

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @"https://qualysapi.qualys.com/qps/rest/3.0/delete/was/optionprofile/834275669"

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>834275669</id>
    </OptionProfile>
  </data>
</ServiceResponse>
```

Sample - Delete multiple option profiles (POST)

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary@"https://qualysapi.qualys.com/qps/rest/3.0/delete/was/optionprofile/" < file.xml

Note: “file.xml” contains the request POST data.

Request POST data

```xml
<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">OP</Criteria>
  </filters>
</ServiceRequest>
```
Qualys Web Application Scanning API
Configuration

<Criteria field="updatedDate" operator="LESSER">2017-09-09</Criteria>
</ServiceRequest>

XML response

<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>10</count>
  <data>
    <OptionProfile>
      <id>712265669</id>
    </OptionProfile>
    <OptionProfile>
      <id>752265669</id>
    </OptionProfile>
    <OptionProfile>
      <id>752275669</id>
    </OptionProfile>
    <OptionProfile>
      <id>754265669</id>
    </OptionProfile>
    <OptionProfile>
      <id>812685669</id>
    </OptionProfile>
    <OptionProfile>
      <id>824295669</id>
    </OptionProfile>
    <OptionProfile>
      <id>824305669</id>
    </OptionProfile>
    <OptionProfile>
      <id>830265669</id>
    </OptionProfile>
    <OptionProfile>
      <id>830275669</id>
    </OptionProfile>
    <OptionProfile>
      <id>830285669</id>
    </OptionProfile>
  </data>
</ServiceResponse>
XSD

<platform API server>/qps/xsd/3.0/was/optionprofile.xsd
Reference: Option Profile

The `<OptionProfile>` element includes sub elements used to define an option profile. A reference of these elements is provided below. An asterisk * indicates a complex element.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The ID of the option profile.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The name given to the option profile.</td>
</tr>
<tr>
<td>tags</td>
<td>Filter by tags applied.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) ID of the tag assigned to option profile.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to option profile.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the option profile was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date when the option profile was updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>usedByWebApps</td>
<td>(boolean) Web applications used/not used by the option profile.</td>
</tr>
<tr>
<td>usedBySchedules</td>
<td>(boolean) Scan schedules used/not used by the option profile.</td>
</tr>
<tr>
<td>owner.id</td>
<td>(Long with operator: EQUALS, IN, NOT EQUALS, GREATER or LESSER) ID of the owner who created the option profile.</td>
</tr>
<tr>
<td>owner.name</td>
<td>(text) Full name of the user who created the option profile.</td>
</tr>
<tr>
<td>owner.username</td>
<td>(text) Username of the owner who created the option profile. (like user_ab3).</td>
</tr>
</tbody>
</table>
## Qualys Web Application Scanning API

### Configuration

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>isDefault</td>
<td>Default option profile for the subscription</td>
</tr>
<tr>
<td>formSubmission</td>
<td>(keyword) Type of form: None, Post, Get, POST&amp; GET</td>
</tr>
<tr>
<td>maxCrawlRequests</td>
<td>Total number of links and forms to follow and test within the scan scope. If performing a Discovery Scan, this is the maximum links that will be crawled, as there will not be any testing performed.</td>
</tr>
<tr>
<td>userAgent</td>
<td>Stores the browser and OS details.</td>
</tr>
<tr>
<td>parameterSet</td>
<td>A parameter set tells us the request parameter settings you would like us to inject into your web applications during scanning. We provide a default one and it is easy to configure more. Once defined just select the parameter set name in your scan’s option profile.</td>
</tr>
<tr>
<td>ignoreBinaryFiles</td>
<td>If you choose these option files with extension zip, pdf, doc are not scanned.</td>
</tr>
<tr>
<td>performance</td>
<td>(keyword) Scan Intensity: LOWEST, LOW, MEDIUM, HIGH, MAXIMUM.</td>
</tr>
<tr>
<td>customPerformance*</td>
<td>Configure the custom intensity level for web application scans.</td>
</tr>
<tr>
<td>Example:</td>
<td></td>
</tr>
<tr>
<td></td>
<td><code>&lt;customPerformance&gt;</code></td>
</tr>
<tr>
<td></td>
<td><code>&lt;numOfHttpThreads&gt;10&lt;/numOfHttpThreads&gt;</code></td>
</tr>
<tr>
<td></td>
<td><code>&lt;delayBetweenRequests&gt;5&lt;/delayBetweenRequests&gt;</code></td>
</tr>
<tr>
<td></td>
<td><code>&lt;/customPerformance&gt;</code></td>
</tr>
<tr>
<td></td>
<td>Note: performance and customPerformance are mutually exclusive parameters and cannot be used together. You can use only either of them for an option profile.</td>
</tr>
<tr>
<td>numOfHttpThreads</td>
<td>(integer) Number of threads to be used to scan each host. The valid range is from 1 to 10.</td>
</tr>
<tr>
<td>delayBetweenRequests</td>
<td>(integer) The duration of delay introduced by WAS in</td>
</tr>
</tbody>
</table>
### Qualys Web Application Scanning API

#### Configuration

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Between Scanning Engine Requests</td>
<td>Time between the scanning engine requests sent to the applications server. The valid range is from 0 to 2000 milliseconds.</td>
</tr>
</tbody>
</table>

**bruteforceOption**  
The level of brute forcing you prefer with options ranging from “Minimal” to “Exhaustive”.

**bruteforceList**  
(keyword: User List/SYSTEM LIST)

- System list: we’ll attempt to guess the password for each detected login ID.
- User list: to select a bruteforce list defined in your account.

**numberOfAttempts**  
The threshold to be reached before stopping the scan. If you deactivate this settings, the scan will keep running no matter how many errors it will find.

**detection**  
(keyword) Select if scans launched with this profile shall perform a full assessment for all WAS detections the engine is able to discover, or if the scan shall focus on the detection of specific vulnerabilities and/or information: Core, Categories, Custom Search list, XSS Power Mode, Everything.

- If <detectionScope> is present then the detection scope = CORE or EVERYTHING
  - Core: Core scope includes vulnerabilities that Qualys considers most common in today’s web applications. It does not include all the vulnerabilities that WAS can detect.
  - Everything: Everything scope includes all the vulnerabilities that WAS can detect.
- Example:

  ```xml
  <detection>
  <detectionScope>EVERYTHING</detectionScope>
  </detection>
  ```

  If <includedSearchLists> or <excludedSearchLists> are present then the detection scope = CUSTOM
If `<detectionCategories>` is present then the detection scope = CATEGORY

if `<xssPowerMode>` is true then the detection scope = XSS

Note: The `<includedSearchLists>`, `<excludedSearchLists>`, `<detectionCategories>`, `<xssPowerMode>`, `<detectionScope>` elements are mutually exclusive elements.

| sensitiveContent | Credit Card Numbers, Social Security Numbers (US), Custom Contents. |
| enhancedCrawling | (boolean) Improve scan coverage for your web application with the enhanced crawling enabled. We will re-crawl individual directories present in the links which are found during crawling. |
| comments | User-defined comments. |
DNS Override

DNS Override Count

/qps/rest/3.0/count/was/dnsoverride/

[GET] [POST]

Returns the total number of DNS overrides in the user's scope. Input elements are optional and are used to filter the number of option profiles included in the count.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The count includes web applications in the user's scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The ID of the DNS override.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The name given to the DNS override.</td>
</tr>
<tr>
<td>tags</td>
<td>Filter by tags applied.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) ID of the tag assigned to DNS override.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to DNS override.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the DNS override was created in WAS, in UTC date/time format.</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API

Configuration

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>updatedDate</td>
<td>(date) The date when the DNS override was updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>owner.id</td>
<td>(Long with operator: EQUALS, IN, NOT EQUALS, GREATER or LESSER) ID of the owner who created the DNS override.</td>
</tr>
<tr>
<td>owner.name</td>
<td>(text) Full name of the user who created the DNS override.</td>
</tr>
<tr>
<td>owner.username</td>
<td>(text) Username of the owner who created the DNS override. (like user_ab3).</td>
</tr>
</tbody>
</table>

Sample - Count (POST)

**API request**

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary@ "https://qualysapi.qualys.com/qps/rest/3.0/count/was/dnsoverride/" < file.xml
Note: "file.xml" contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">Test API</Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/dnsoverride.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>6</count>
</ServiceResponse>
```

XSD
Qualys Web Application Scanning API

Configuration

<platform API server>/qps/xsd/3.0/was/dnsoverride.xsd
Search DNS Override

/qps/rest/3.0/search/was/dnsoverride/

[POST]

Returns a list of DNS overrides which are in the user’s scope. Action logs are not included in the output.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The Output includes DNS overrides in the user’s scope.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The ID of the DNS override.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The name given to the DNS override.</td>
</tr>
<tr>
<td>tags</td>
<td>Filter by tags applied.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) ID of the tag assigned to DNS override.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to DNS override.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the DNS override was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date when the DNS override was updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>owner.id</td>
<td>(Long with operator: EQUALS, IN, NOT EQUALS,</td>
</tr>
</tbody>
</table>
Qualys Web Application Scanning API
Configuration

GREENER or LESSER) ID of the owner who created the DNS override.

<table>
<thead>
<tr>
<th>owner.name</th>
<th>(text) Full name of the user who created the DNS override.</th>
</tr>
</thead>
<tbody>
<tr>
<td>owner.username</td>
<td>(text) Username of the owner who created the DNS override. (like user_ab3).</td>
</tr>
</tbody>
</table>

Sample - Search - criteria (POST)

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"--
data-binary@-
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/dnsoverride/" < file.xml
```

Note: "file.xml" contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">Test API</Criteria>
  </filters>
</ServiceRequest>
```

**XML response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/xsd/3.0/was/dnsoverride.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>6</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <DnsOverride>
      <id>56420</id>
      <name>
        <![CDATA[Test API DNS Record]]>
      </name>
      <owner>
```
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Configuration

<username>user_john</username>
<firstName><![CDATA[John]]></firstName>
<lastName><![CDATA[Doe]]></lastName>
</owner>
<tags>
  <count>0</count>
</tags>
<createdDate>2019-08-12T13:33:04Z</createdDate>
<updatedDate>2019-08-12T13:33:04Z</updatedDate>
</DnsOverride>
<DnsOverride>
  <id>56422</id>
  <name>
    <![CDATA[Test API Dns Record1]]>
  </name>
  <owner>
    <id>1056860</id>
    <username>user_john</username>
    <firstName><![CDATA[John]]></firstName>
    <lastName><![CDATA[Doe]]></lastName>
  </owner>
  <tags>
    <count>0</count>
  </tags>
  <createdDate>2019-08-12T13:58:59Z</createdDate>
  <updatedDate>2019-08-12T13:58:59Z</updatedDate>
</DnsOverride>
<DnsOverride>
  <id>56423</id>
  <name>
    <![CDATA[Test API Dns Record2]]>
  </name>
  <owner>
    <id>1056860</id>
    <username>user_john</username>
    <firstName><![CDATA[John]]></firstName>
    <lastName><![CDATA[Doe]]></lastName>
  </owner>
  <tags>
    <count>2</count>
  </tags>
  <createdDate>2019-08-12T15:30:24Z</createdDate>
  <updatedDate>2019-08-12T15:30:30Z</updatedDate>
</DnsOverride>
<DnsOverride>
<id>56621</id>
<name>
  <![CDATA[Test API Dns Record3]]>
</name>
<owner>
  <id>1056860</id>
  <username>user_john</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</owner>
<tags>
  <count>2</count>
</tags>
<createdDate>2019-08-12T23:03:53Z</createdDate>
<updatedDate>2019-08-12T23:03:59Z</updatedDate>
</DnsOverride>

<DnsOverride>
  <id>56820</id>
  <name>
    <![CDATA[Test API Dns Record3-Updated]]>
  </name>
  <owner>
    <id>1056860</id>
    <username>user_john</username>
    <firstName><![CDATA[John]]></firstName>
    <lastName><![CDATA[Doe]]></lastName>
  </owner>
  <tags>
    <count>0</count>
  </tags>
  <createdDate>2019-08-13T00:07:37Z</createdDate>
  <updatedDate>2019-08-16T14:10:18Z</updatedDate>
</DnsOverride>

<DnsOverride>
  <id>57020</id>
  <name>
    <![CDATA[Test API Dns Record4]]>
  </name>
  <owner>
    <id>1056860</id>
    <username>user_john</username>
    <firstName><![CDATA[John]]></firstName>
    <lastName><![CDATA[Doe]]></lastName>
  </owner>
  <tags>
  </tags>
</DnsOverride>
<table>
<thead>
<tr>
<th>&lt;count&gt;1&lt;/count&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;/tags&gt;</td>
</tr>
<tr>
<td>&lt;createdDate&gt;2019-08-19T16:25:05Z&lt;/createdDate&gt;</td>
</tr>
<tr>
<td>&lt;updatedDate&gt;2019-08-22T12:35:40Z&lt;/updatedDate&gt;</td>
</tr>
<tr>
<td>&lt;/DnsOverride&gt;</td>
</tr>
<tr>
<td>&lt;/data&gt;</td>
</tr>
<tr>
<td>&lt;/ServiceResponse&gt;</td>
</tr>
</tbody>
</table>

XSD

<platform_API_server>/qps/xsd/3.0/was/dnsoverride.xsd
Get DNS Override Details

/qps/rest/3.0/get/was/dnsoverride/<id>

[GET]

View details for an DNS override which is in the user’s scope. See “Search DNS overrides” to find a record ID to use as input.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”. The Output includes DNS overrides in the user’s scope.

Input Parameters

The element “id” (integer) is required, where “id” identifies an option profile.

Click here for available operators

Sample - Get details of an option profile (GET)

Let us fetch details of DNS override. Ensure that you do not add any data or filter in the request.

API request

```bash
curl -u "USERNAME:PASSWORD" " -X GET -H "Content-type: text/xml" "https://qualysapi.qualys.com/qps/rest/3.0/get/was/dnsoverride/57020"
```

XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/dnsoverride.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <DnsOverride>
      <id>57020</id>
      <name><![CDATA[Test API DNS Record4]]></name>
    </DnsOverride>
  </data>
</ServiceResponse>
```
...  
  <mappings>
      <count>3</count>
      <list>
          <DnsMapping>
              <hostName>host_1</hostName>
              <ipAddress>1.2.3.7</ipAddress>
          </DnsMapping>
          <DnsMapping>
              <hostName>host_2</hostName>
              <ipAddress>1.2.3.5</ipAddress>
          </DnsMapping>
          <DnsMapping>
              <hostName>host_3</hostName>
              <ipAddress>1.2.3.5</ipAddress>
          </DnsMapping>
      </list>
  </mappings>
</DnsOverride>
</data>
</ServiceResponse>
Create DNS Override

/qps/rest/3.0/create/was/dnsoverride

[POST]

Create a new DNS Override.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”.

Input Parameters

The element “name” (text) and “mappings” is required, where “name” is name of the DNS override.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>(text) The name given to the DNS override.</td>
</tr>
<tr>
<td>DnsMapping</td>
<td>Use to configure the DNS override setting through API. You need to specify the hostname or FQDN and the corresponding IP address to be preferred for scanning.</td>
</tr>
</tbody>
</table>

Example:

```xml
<set>
  <DnsMapping>
    <hostName>test</hostName>
    <ipAddress>2.3.4.5</ipAddress>
  </DnsMapping>
</set>
```

When you create a new DNS override, ensure:
- Name (Required): Name should be unique.
- Tags: The tag id should be valid and in scope of current user. Use only <Set> tag.
- Mappings (Required): Each mapping must have hostName and IpAddress in valid format. Use only <Set> tag.
- Comments: Only <Set> with 1 comment is allowed with maximum length 2048 characters.

Sample - Create DNS Override (POST)

**API request**

```bash
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary@-"https://qualysapi.qualys.com/qps/rest/3.0/create/was/dnsoverride/" < file.xml
```

Note: "file.xml" contains the request POST data.

**Request POST data**

```
<ServiceRequest>
  <data>
    <DnsOverride>
      <name><![CDATA[DNS Record]]></name>
      <mappings>
        <set>
          <DnsMapping>
            <hostName>host_1</hostName>
            <ipAddress>2.3.4.5</ipAddress>
          </DnsMapping>
          <DnsMapping>
            <hostName>host_2</hostName>
            <ipAddress>1.2.3.4</ipAddress>
          </DnsMapping>
        </set>
      </mappings>
      <tags>
        <set>
          <Tag>
            <id>8993614</id>
          </Tag>
        </set>
      </tags>
    </DnsOverride>
  </data>
</ServiceRequest>
```
<Tag>
  <id>8876615</id>
</Tag>
</set>
</tags>
</DnsOverride>
</data>
</ServiceRequest>

---

**XML response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/dnsoverride.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <DnsOverride>
      <id>57220</id>
      <name>
        <![CDATA[DNS Record]]>
      </name>
      ...
      <mappings>
        <count>2</count>
        <list>
          <DnsMapping>
            <hostName>host_1</hostName>
            <ipAddress>2.3.4.5</ipAddress>
          </DnsMapping>
          <DnsMapping>
            <hostName>host_2</hostName>
            <ipAddress>1.2.3.4</ipAddress>
          </DnsMapping>
        </list>
        </mappings>
      </DnsOverride>
    </data>
  </ServiceResponse>
```
Update an DNS Override

/qps/rest/3.0/update/was/dnsoverride

[POST]

Update an DNS override which is in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”.

Input Parameters

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>(text) The name given to the DNS override.</td>
</tr>
<tr>
<td>DnsMapping</td>
<td>Use to configure the DNS override setting through API.</td>
</tr>
<tr>
<td>(keyword)</td>
<td>You need to specify the hostname or FQDN and the corresponding IP address to be preferred for scanning.</td>
</tr>
</tbody>
</table>

Example:

```xml
<set>
  <DnsMapping>
    <hostName>test</hostName>
    <ipAddress>2.3.4.5</ipAddress>
  </DnsMapping>
</set>
```

When you update an DNS override, ensure:

- Name: In case of name update, the updated name should be unique.

- Id is required.
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- At least one of the following should be present other than id: Name, owner, tags, comments, mappings

- Tags: The `<set>` and `<Add>`/ `<Removed>` tags are mutually exclusive. Either use `<set>` or `<Add>` and `<Removed>`.

- Mappings: The `<set>` and `<Add>`/ `<Removed>` tags are mutually exclusive. Either use `<set>` or `<Add>` and `<Removed>`.

Sample - Update DNS Override (POST)

```
API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary@- "https://qualysapi.qualys.com/qps/rest/3.0/update/was/dnsoverride/" < file.xml
Note: "file.xml" contains the request POST data.
```

Request POST data

```
<ServiceRequest>
  <data>
    <DnsOverride>
     <name><![CDATA[DNS Record]]></name>
     <mappings>
      <set>
       <DnsMapping>
        <hostName>host_1</hostName>
        <ipAddress>2.3.4.5</ipAddress>
      </DnsMapping>
      <DnsMapping>
        <hostName>host_2</hostName>
        <ipAddress>1.2.3.4</ipAddress>
      </DnsMapping>
    </set>
    </mappings>
    <tags>
     <set>
      <Tag>
       <id>8993614</id>
      </Tag>
     </set>
    </tags>
  </data>
</ServiceRequest>
```

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XML response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0
/was/dnsoverride.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <DnsOverride>
            <id>57020</id>
        </DnsOverride>
    </data>
</ServiceResponse>
```

Sample - Update DNS Override (using add and remove tag)

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary@- "https://qualysapi.qualys.com/qps/rest/3.0/update/was/dnsoverride/" < file.xml
```
Note: "file.xml" contains the request POST data.

Request POST data

```xml
<ServiceRequest>
    <data>
        <DnsOverride>
            <name><![CDATA[DNS Record]]></name>
            <mappings>
                <remove>
                    <DnsMapping>
                        <hostName>host_1</hostName>
                    </DnsMapping>
                </remove>
            </mappings>
        </DnsOverride>
    </data>
</ServiceRequest>
```
</ServiceResponse>
Delete DNS Override

/qps/rest/3.0/delete/was/dnsoverride

[POST]

Delete a DNS override that is in the user’s scope.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access”.

Input Parameters

Optional elements are used to retrieve DNS overrides to delete. When multiple elements are specified, parameters are combined using a logical AND. All dates must be entered in UTC date/time format.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The ID of the DNS override.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The name given to the DNS override.</td>
</tr>
<tr>
<td>tags</td>
<td>Filter by tags applied.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) ID of the tag assigned to DNS override.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to DNS override.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the DNS override was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date when the DNS override was updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>owner.id</td>
<td>(Long with operator: EQUALS, IN, NOT EQUALS, GREATER or LESSER) ID of the owner who created the</td>
</tr>
</tbody>
</table>
DNS override.

owner.name (text) Full name of the user who created the DNS override.

owner.username (text) Username of the owner who created the DNS override. (like user_ab3).

Sample - Delete specific DNS override (POST)

API request

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"--data-binary@"https://qualysapi.qualys.com/qps/rest/3.0/delete/was/dnsoverride/" < file.xml
Note: "file.xml" contains the request POST data.

Request POST Data

<ServiceRequest>
  <filters>
    <Criteria field="id" operator="EQUALS">57020</Criteria>
  </filters>
  <data>
    <DnsOverride>
      <id>57220</id>
    </DnsOverride>
  </data>
</ServiceRequest>

XML response

<?xml version="1.0" encoding="UTF-8"?><ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/was/dnsoverride.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <DnsOverride>
      <id>57220</id>
    </DnsOverride>
  </data>
</ServiceResponse>
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</ServiceResponse>
Reference: DNS Override

The `<OptionProfile>` element includes sub elements used to define an option profile. A reference of these elements is provided below. An asterisk * indicates a complex element.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(integer) The ID of the DNS override.</td>
</tr>
<tr>
<td>name</td>
<td>(text) The name given to the DNS override.</td>
</tr>
<tr>
<td>tags</td>
<td>Filter by tags applied.</td>
</tr>
<tr>
<td>tags.id</td>
<td>(integer) ID of the tag assigned to DNS override.</td>
</tr>
<tr>
<td>tags.name</td>
<td>(text) Tag name assigned to DNS override.</td>
</tr>
<tr>
<td>createdDate</td>
<td>(date) The date when the DNS override was created in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>updatedDate</td>
<td>(date) The date when the DNS override was updated in WAS, in UTC date/time format.</td>
</tr>
<tr>
<td>owner.id</td>
<td>(Long with operator: EQUALS, IN, NOT EQUALS, GREATER or LESSER) ID of the owner who created the DNS override.</td>
</tr>
<tr>
<td>owner.name</td>
<td>(text) Full name of the user who created the DNS override.</td>
</tr>
<tr>
<td>owner.username</td>
<td>(text) Username of the owner who created the DNS override. (like user_ab3).</td>
</tr>
<tr>
<td>DnsMapping</td>
<td>Use to configure the DNS override setting through API. You need to specify the hostname or FQDN and the corresponding IP address to be preferred for scanning.</td>
</tr>
</tbody>
</table>
Example:

```
<set>
  <DnsMapping>
    <hostName>test</hostName>
    <ipAddress>2.3.4.5</ipAddress>
  </DnsMapping>
</set>
```

When you create a new DNS override, ensure:

- **Name (Required):** Name should be unique.

- **Tags:** The tag id should be valid and in scope of current user. Use only `<Set>` tag.

- **Mappings (Required):** Each mapping must have `hostName` and `IpAddress` in valid format. Use only `<Set>` tag.

- **Comments:** Only `<Set>` with 1 comment is allowed with maximum length 2048 characters.

When you update an DNS override, ensure:

- **Name:** In case of name update, the updated name should be unique.

- **Id** is required.

- **At lease one of the following should be present other than id:** Name, owner, tags, comments, mappings

- **Tags:** The `<set>` and `<Add>`/ `<Removed>` tags are mutually exclusive. Either use `<set>` or `<Add>` and `<Removed>`.

- **Mappings:** The `<set>` and `<Add>`/ `<Removed>` tags are mutually exclusive. Either use `<set>` or `<Add>` and `<Removed>`.
Burp

Import Burp Issues

/qps/rest/3.0/import/was/burp

[POST]

Imports Burp scan reports and store the findings discovered by the Burp Suite scanner with those discovered by WAS. You can import Burp reports to manage your Burp findings with WAS.

Permissions required - User must have WAS module enabled. User account must have these permissions: Access Permission “API Access” and WAS Permission “Import Burp Report”.

Input Parameters

These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

Click here for available operators

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>webAppId</td>
<td>(integer) The web application ID. This element is assigned by the service and required for an update request.</td>
</tr>
<tr>
<td>purgeResults</td>
<td>(boolean) Set to false to indicate if all previous issues for the web application should be retained. By default, it is set to false.</td>
</tr>
<tr>
<td>closeUnreportedIssues</td>
<td>(boolean) Set to false to indicate if all previous issues for the web application should be marked as fixed and should not be reported. By default, it is set to false.</td>
</tr>
</tbody>
</table>
Sample - Import Burp Report

Let us import a burp report for web application with webAppID equal to 1052902. To import the Burp report, you need to specify the webAppID and then paste the contents of the burp results (XML) file in <burpXml> tag.

**API request**

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qualys.com/qps/rest/3.0/import/was/burp" < file.xml
```

Note: “file.xml” contains the request POST data.

**Request POST data**

```
<ServiceRequest>
<data>
<webAppId>1524084</webAppId>
<purgeResults>false</purgeResults>
<closeUnreportedIssues>true</closeUnreportedIssues>
<fileName>testBurpReportImport</fileName>
<burpXml><?xml version="1.0"?><issues>
<!ELEMENT issues (issue*)>
<!ATTLIST issues burpVersion CDATA "">
<!ATTLIST issues exportTime CDATA "">
<!ELEMENT issue (serialNumber, type, name, host, path, location, severity, confidence, issueBackground?, remediationBackground?, references?, vulnerabilityClassifications?, issueDetail?, issueDetailItems?, remediationDetail?, requestresponse*, collaboratorEvent*, infiltratorEvent*, staticAnalysis*, dynamicAnalysis*)>
<!ELEMENT serialNumber (#PCDATA)>
<!ELEMENT type (#PCDATA)>
<!ELEMENT name (#PCDATA)>
<!ELEMENT host (#PCDATA)>
<!ATTLIST host ip CDATA "">
</issues>
</data>
</ServiceRequest>
```
<!ELEMENT path (#PCDATA)>
<!ELEMENT location (#PCDATA)>
<!ELEMENT severity (#PCDATA)>
<!ELEMENT confidence (#PCDATA)>
<!ELEMENT issueBackground (#PCDATA)>
<!ELEMENT remediationBackground (#PCDATA)>
<!ELEMENT references (#PCDATA)>
<!ELEMENT vulnerabilityClassifications (#PCDATA)>
<!ELEMENT issueDetail (#PCDATA)>
<!ELEMENT issueDetailItems (issueDetailItem*)>
<!ELEMENT issueDetailItem (#PCDATA)>
<!ELEMENT remediationDetail (#PCDATA)>
<!ELEMENT requestresponse (request?, response?, responseRedirected?)>
<!ELEMENT request (#PCDATA)>
<!ATTLIST request method CDATA ""
<!ATTLIST request base64 (true|false) "false">
<!ELEMENT response (#PCDATA)>
<!ATTLIST response base64 (true|false) "false">
<!ELEMENT responseRedirected (#PCDATA)>
<!ELEMENT sender (#PCDATA)>
<!ELEMENT message (#PCDATA)>
<!ELEMENT conversation (#PCDATA)>
<!ELEMENT recipient (#PCDATA)>
<!ELEMENT recipients (recipient*)>
<!ELEMENT smtp (sender, recipients, message, conversation)>
<!ELEMENT collaboratorEvent (interactionType, originIp, time, lookupType?, lookupHost?, requestresponse?, smtp?)>
<!ELEMENT interactionType (#PCDATA)>
<!ELEMENT originIp (#PCDATA)>
<!ELEMENT time (#PCDATA)>
<!ELEMENT lookupType (#PCDATA)>
<!ELEMENT lookupHost (#PCDATA)>
<!ELEMENT infiltratorEvent (parameterName, platform, signature, stackTrace?, parameterValue?, collaboratorEvent)>
<!ELEMENT parameterName (#PCDATA)>
<!ELEMENT platform (#PCDATA)>
<!ELEMENT signature (#PCDATA)>
<!ELEMENT stackTrace (#PCDATA)>
<!ELEMENT parameterValue (#PCDATA)>
<!ELEMENT dynamicAnalysis (source, sink, sourceStackTrace, sinkStackTrace, eventListenerStackTrace, sourceValue, sinkValue, eventHandlerData, eventHandlerDataType, eventHandlerManipulatedData, poc, origin, isOriginChecked, sourceElementId, sourceElementName, eventFiredEventName, eventFiredElementId, eventFiredElementName, eventFiredOuterHtml)>
Qualys Web Application Scanning API

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<!ELEMENT staticAnalysis (source, sink, codeSnippets)>  
<!ELEMENT source (#PCDATA)>  
<!ELEMENT sink (#PCDATA)>  
<!ELEMENT sourceStackTrace (#PCDATA)>  
<!ELEMENT sinkStackTrace (#PCDATA)>  
<!ELEMENT eventListenerStackTrace (#PCDATA)>  
<!ELEMENT sourceValue (#PCDATA)>  
<!ELEMENT sinkValue (#PCDATA)>  
<!ELEMENT eventHandlerData (#PCDATA)>  
<!ELEMENT sourceElementId (#PCDATA)>  
<!ELEMENT sourceElementName (#PCDATA)>  
<!ELEMENT eventFiredEventName (#PCDATA)>  
<!ELEMENT eventFiredElementId (#PCDATA)>  
<!ELEMENT eventFiredElementName (#PCDATA)>  
<!ELEMENT eventFiredOuterHtml (#PCDATA)>  
<!ELEMENT eventHandlerManipulatedData (#PCDATA)>  
<!ELEMENT poc (#PCDATA)>  
<!ELEMENT origin (#PCDATA)>  
<!ELEMENT isOriginChecked (#PCDATA)>  
<!ELEMENT codeSnippets (codeSnippet*)>  
<!ELEMENT codeSnippet (#PCDATA)>  

<issues burpVersion="2.0.20beta" exportTime="Wed May 29 08:45:42 CDT 2019">
  <issue>
    <serialNumber>5018346890832155648</serialNumber>
    <type>16777728</type>
    <name><![CDATA[Unencrypted communications]]></name>
    <host ip="172.217.164.116">http://google-gruyere.appspot.com</host>
    <path><![CDATA[/]]></path>
    <location><![CDATA[/]]></location>
    <severity>Low</severity>
    <confidence>Certain</confidence>
    <issueBackground><![CDATA[The application allows users to connect to it over unencrypted connections. An attacker suitably positioned to view a legitimate user's network traffic could record and monitor their interactions with the application and obtain any information the user supplies. Furthermore, an attacker able to modify traffic could use the application as a platform for attacks against its users and third-party websites. Unencrypted connections have been exploited by ISPs and governments to track users, and to inject adverts and malicious JavaScript. Due to these concerns, web browser]]>
  </issue>
</issues>

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vendors are planning to visually flag unencrypted connections as hazardous.</p>
<p>To exploit this vulnerability, an attacker must be suitably positioned to eavesdrop on the victim's network traffic. This scenario typically occurs when a client communicates with the server over an insecure connection such as public Wi-Fi, or a corporate or home network that is shared with a compromised computer. Common defenses such as switched networks are not sufficient to prevent this. An attacker situated in the user's ISP or the application's hosting infrastructure could also perform this attack. Note that an advanced adversary could potentially target any connection made over the Internet's core infrastructure.</p>
<p>Please note that using a mixture of encrypted and unencrypted communications is an ineffective defense against active attackers, because they can easily remove references to encrypted resources when these references are transmitted over an unencrypted connection.</p>
<p>Applications should use transport-level encryption (SSL/TLS) to protect all communications passing between the client and the server. The Strict-Transport-Security HTTP header should be used to ensure that clients refuse to access the server over an insecure connection.</p>
<p>Applications should use transport-level encryption (SSL/TLS) to protect all communications passing between the client and the server. The Strict-Transport-Security HTTP header should be used to ensure that clients refuse to access the server over an insecure connection.</p>

<ul>
</ul>

<ul>
</ul>
<host ip="172.217.164.116">http://google-gruyere.appspot.com</host>
<path><![CDATA[/922324844025/login]]></path>
<location><![CDATA[/922324844025/login [URL path filename]]]]></location>
<severity>High</severity>
<confidence>Certain</confidence>

Reflected cross-site scripting vulnerabilities arise when data is copied from a request and echoed into the application's immediate response in an unsafe way. An attacker can use the vulnerability to construct a request that, if issued by another application user, will cause JavaScript code supplied by the attacker to execute within the user's browser in the context of that user's session with the application.

The attacker-supplied code can perform a wide variety of actions, such as stealing the victim's session token or login credentials, performing arbitrary actions on the victim's behalf, and logging their keystrokes.

Users can be induced to issue the attacker's crafted request in various ways. For example, the attacker can send a victim a link containing a malicious URL in an email or instant message. They can submit the link to popular web sites that allow content authoring, for example in blog comments. And they can create an innocuous looking web site that causes anyone viewing it to make arbitrary cross-domain requests to the vulnerable application (using either the GET or the POST method).

The security impact of cross-site scripting vulnerabilities is dependent upon the nature of the vulnerable application, the kinds of data and functionality that it contains, and the other applications that belong to the same domain and organization. If the application is used only to display non-sensitive public content, with no authentication or access control functionality, then a cross-site scripting flaw may be considered low risk. However, if the same application resides on a domain that can access cookies for other more security-critical applications, then the vulnerability could be used to attack those other applications, and so may be considered high risk. Similarly, if the organization that owns the application is a likely target for phishing attacks, then the vulnerability could be leveraged to lend credibility to such attacks, by injecting Trojan functionality into the vulnerable application and exploiting users' trust in the organization in order to capture credentials for other applications that it owns. In many kinds of application, such as those providing online banking functionality, cross-site scripting should always be considered high risk.
In most situations where user-controllable data is copied into application responses, cross-site scripting attacks can be prevented using two layers of defenses:

- Input should be validated as strictly as possible on arrival, given the kind of content that it is expected to contain. For example, personal names should consist of alphabetical and a small range of typographical characters, and be relatively short; a year of birth should consist of exactly four numerals; email addresses should match a well-defined regular expression. Input which fails the validation should be rejected, not sanitized.

- User input should be HTML-encoded at any point where it is copied into application responses. All HTML metacharacters, including `<`, `&`, `;`, and `=`, should be replaced with the corresponding HTML entities (<`, `&lt;`, `&amp;gt;`, etc.).

In cases where the application's functionality allows users to author content using a restricted subset of HTML tags and attributes (for example, blog comments which allow limited formatting and linking), it is necessary to parse the supplied HTML to validate that it does not use any dangerous syntax; this is a non-trivial task.

Using Burp to Find XSS issues

CWE-79: Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting')

CWE-80: Improper Neutralization of Script-Related HTML Tags in a Web Page (Basic XSS)

CWE-116: Improper Encoding or Escaping of Output

CWE-159: Failure to Sanitize Special Element
The value of the URL path filename is copied into the HTML document as plain text between tags. The payload `<b>bpi9f<script>alert(1)</script>j4wjy</b>` was submitted in the URL path filename. This input was echoed unmodified in the application's response.

This proof-of-concept attack demonstrates that it is possible to inject arbitrary JavaScript into the application's response.

```xml
<issueDetail><![CDATA[The value of the URL path filename is copied into the HTML document as plain text between tags. The payload `<b>bpi9f<script>alert(1)</script>j4wjy</b>` was submitted in the URL path filename. This input was echoed unmodified in the application's response.]]></issueDetail>

```xml
<requestresponse>
  <request method="GET">
    </request>
  <response>
    </response>
</requestresponse>
```
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If the `HttpOnly` attribute is set on a cookie, then the cookie's value is not readable or set by client-side JavaScript. This measure makes certain client-side attacks, such as cross-site scripting, slightly harder to exploit by preventing them from trivially capturing the cookie's value via an injected script.
There is usually no good reason not to set the HttpOnly flag on all cookies. Unless you specifically require legitimate client-side scripts within your application to read or set a cookie's value, you should set the HttpOnly flag by including this attribute within the relevant Set-cookie directive.

You should be aware that the restrictions imposed by the HttpOnly flag can potentially be circumvented in some circumstances, and that numerous other serious attacks can be delivered by client-side script injection, aside from simple cookie stealing.

The following cookie was issued by the application and does not have the HttpOnly flag set:

- GRUYERE

The cookie does not appear to contain a session token, which may reduce the risk associated with this issue. You should review the contents of the cookie to determine its function.
XML response

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
com/qps/xsd/3.0/was/burp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Burp>
      <id>145201</id>
      <webApp>
        <id>1524084</id>
        <name>
          <![CDATA[demoap15webapp]]>
        </name>
        <url>
          <![CDATA[http://10.11.72.37]]>
        </url>
      </webApp>
      <issuesCount>3</issuesCount>
      <issues burpVersion="2.0.20beta" exportTime="Wed May 29 13:45:42 UTC 2019">
        <issue>
          <id>174201</id>
          <serialNumber>5018346890832155648</serialNumber>
        </issue>
        <issue>
          <id>174202</id>
          <serialNumber>5761124851012705280</serialNumber>
        </issue>
        <issue>
          <id>174203</id>
          <serialNumber>7919395047422736384</serialNumber>
        </issue>
      </issues>
    </Burp>
  </data>
</ServiceResponse>
Qualys Web Application Scanning API

Burp

```xml
<issues>
<fileName>testBurpReportImport</fileName>
<errorRecords>
  <count>0</count>
</errorRecords>
</Burp>
</data>
</ServiceResponse>

XSD

<platform_API_server>/qps/xsd/3.0/was/burp.xsd
## Error Messages

### Sample Messages: Elements

Sample messages for element errors are shown below

<table>
<thead>
<tr>
<th>Error Message</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element Validation</td>
<td></td>
</tr>
<tr>
<td>url: Invalid URL format (&lt;value&gt;).</td>
<td>URL format must be as follows:</td>
</tr>
<tr>
<td></td>
<td>http://&lt;baseUrl&gt;/rest/3.0/?parameters</td>
</tr>
<tr>
<td>&lt;scope&gt;: Invalid value (&lt;value&gt;).</td>
<td>Element must be set to one of these values: ALL, LIMIT, SUBDOMAIN or DOMAINS.</td>
</tr>
<tr>
<td>domains: Element is required when</td>
<td>Specify the domains to include in the web application scope in the “domains” element.</td>
</tr>
<tr>
<td>scope is set to: DOMAINS.</td>
<td></td>
</tr>
<tr>
<td>subDomain: Element is required when</td>
<td>Specify the subdomains to include in the web application scope in the “subDomain” element.</td>
</tr>
<tr>
<td>scope is set to: SUBDOMAIN.</td>
<td></td>
</tr>
<tr>
<td>subDomain: Invalid domain name</td>
<td>Use following format in the “subDomain” element: .my.domain.suffix (must start with a dot)</td>
</tr>
<tr>
<td>format (&lt;value&gt;).</td>
<td></td>
</tr>
<tr>
<td>useRobots: Invalid value (&lt;value&gt;).</td>
<td>Element “userRobots” must be set to one of these values: IGNORE, ADD_PATHS, BLACKLIST.</td>
</tr>
<tr>
<td>Url: Element is required</td>
<td>Element “Url” is required.</td>
</tr>
<tr>
<td>Error Message</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>uris.&lt;field&gt;: Invalid URL format (&lt;value&gt;).</td>
<td>For the uri.&lt;field&gt; sub element, specify a URL like <a href="http://domain.name/base/url/?parameters">http://domain.name/base/url/?parameters</a></td>
</tr>
<tr>
<td>uris.&lt;field&gt;: Length of the field must not be greater than 2048 characters.</td>
<td>For the uri.&lt;field&gt; sub element, the maximum field length is 2048 characters.</td>
</tr>
<tr>
<td>Domain: Element is required</td>
<td>The domain element must be provided.</td>
</tr>
<tr>
<td>Domain: Invalid host name format (&lt;value&gt;).</td>
<td>Use following format for value in the “Domain” element:</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.my.domain.example">www.my.domain.example</a>.</td>
</tr>
<tr>
<td>Length of all domains cannot exceed 2048 characters.</td>
<td>The list of all domains in the web application cannot exceed 2048 characters.</td>
</tr>
<tr>
<td>Attribute.category: Element is required</td>
<td>The element Attribute.category is required.</td>
</tr>
<tr>
<td>Attribute.category: Invalid value (&lt;value&gt;).</td>
<td>Element Attribute.category must be set to one of these values:</td>
</tr>
<tr>
<td></td>
<td>Business Function, Business Location, Business Description.</td>
</tr>
<tr>
<td>Attribute.value: Element is required</td>
<td>Provide a value for the attribute in the Attribute.value element:</td>
</tr>
<tr>
<td></td>
<td>function, location or description.</td>
</tr>
<tr>
<td>The attribute length cannot be greater than 64 characters.</td>
<td>The value for this attribute cannot exceed 64 characters.</td>
</tr>
<tr>
<td>Error Message</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------</td>
</tr>
<tr>
<td>The attribute length cannot be greater than 2048 characters.</td>
<td>The value for this attribute cannot exceed 2048 characters.</td>
</tr>
<tr>
<td><code>&lt;element&gt;</code>: Element must not be set.</td>
<td>This element does not apply to this request.</td>
</tr>
<tr>
<td>set: Element must contain at least one child.</td>
<td>The set element requires at least one sub element.</td>
</tr>
<tr>
<td>At least one of the following elements must be set: set, add, remove.</td>
<td>This request requires at least one of these elements: set, add or remove.</td>
</tr>
<tr>
<td>headers: Length of all headers cannot exceed 2048 characters.</td>
<td>The values of all headers cannot exceed 2048 characters.</td>
</tr>
<tr>
<td>At least one of the following elements must be set: set, add, remove.</td>
<td>For an “update” request you must set at least one of these elements: set, add or remove.</td>
</tr>
<tr>
<td>UrlEntry: Element is required.</td>
<td>The element UrlEntry must be provided.</td>
</tr>
<tr>
<td>UrlEntry: Invalid URL format (value).</td>
<td>Specify a URL like <a href="http://domain.name/base/url/?parameters">http://domain.name/base/url/?parameters</a></td>
</tr>
<tr>
<td><code>&lt;parent&gt;</code>: Length of all [URLs, regular expressions] cannot exceed 2048 characters</td>
<td>The list of entries for a given type shall not exceed 2048 characters.</td>
</tr>
<tr>
<td>Error Message</td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td></td>
</tr>
<tr>
<td><strong>UrlEntry:</strong> Only regular expressions are accepted for this element.</td>
<td></td>
</tr>
<tr>
<td>You must provide regular expressions for the element postDataBlackList.</td>
<td></td>
</tr>
<tr>
<td><strong>tags.&lt;element&gt;:</strong> Element must not be set.</td>
<td></td>
</tr>
<tr>
<td>The tags element does not apply for this request</td>
<td></td>
</tr>
<tr>
<td><strong>tags.set:</strong> Element must contain at least one child.</td>
<td></td>
</tr>
<tr>
<td>At least one sub element must be provided for the element tag.set.</td>
<td></td>
</tr>
<tr>
<td><strong>Tag.id:</strong> Element is required.</td>
<td></td>
</tr>
<tr>
<td>Provide a value for the element Tag.id</td>
<td></td>
</tr>
<tr>
<td><strong>Tag.id:</strong> Invalid value (value).</td>
<td></td>
</tr>
<tr>
<td>Value must be an integer set at least to 1.</td>
<td></td>
</tr>
<tr>
<td><strong>Tag:</strong> Tag specified by ID &lt;id&gt; does not exist or is not available.</td>
<td></td>
</tr>
<tr>
<td>Provide a value for the element id that corresponds to a valid tag.</td>
<td></td>
</tr>
</tbody>
</table>
Sample Messages: Authorization

Sample messages for errors related to authorization are shown below.

<table>
<thead>
<tr>
<th>Error Message</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element Validation</td>
<td>You must be granted the API Access permission in your roles and scopes.</td>
</tr>
<tr>
<td>You are not authorized to access the application through the API.</td>
<td></td>
</tr>
<tr>
<td>You do not have access to module Web Application Scanning required by this API.</td>
<td>Please contact your account manager to have WAS enabled in your subscription.</td>
</tr>
<tr>
<td>No data shall be passed for this operation.</td>
<td>The POST request does not specify a data element.</td>
</tr>
<tr>
<td>User is not authorized to perform this operation on specified object(s).</td>
<td>You must be granted access to these objects in your user scope.</td>
</tr>
<tr>
<td>Operation %s does not support search filters.</td>
<td>Do not provide search filters for this operation</td>
</tr>
<tr>
<td>Quota of web application has been exceeded.</td>
<td>Please check with your account manager to purchase new applications.</td>
</tr>
</tbody>
</table>
Sample Messages: Criteria

Sample messages for errors related to criteria are shown below.

<table>
<thead>
<tr>
<th>Error Message</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criteria: Field is required.</td>
<td>Specify the name of the criteria to search against.</td>
</tr>
<tr>
<td>Criteria: Invalid criteria (&lt;field name&gt;).</td>
<td>Please search against one of the following criteria: %s.</td>
</tr>
<tr>
<td>Criteria: Invalid operator for criteria '&lt;field&gt;' (&lt;operator&gt;).</td>
<td>Allowed operations for this criteria are: %s.</td>
</tr>
<tr>
<td>Criteria: Value is required for criteria '&lt;field&gt;'.</td>
<td>Specify a value for a field name for search criteria.</td>
</tr>
</tbody>
</table>
| Criteria: Invalid value format for criteria '<field>': <value>. | Boolean (true, false). Date and Time in UTC format
|                                              | Date and Time in UTC format
|                                              | Enumeration (allowed options separated by comma).                          |
|                                              | Other: Specify criteria value(s) as <type>.                                |
Sample Messages: Report Storage Limit

Sample messages for errors related to report storage limit are shown below.

<table>
<thead>
<tr>
<th>Error Message</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element Validation</td>
<td></td>
</tr>
<tr>
<td>Your [subscription</td>
<td>user] storage limit of &lt;NB&gt; Mb has been reached.</td>
</tr>
</tbody>
</table>
Available operators

Operators supported by input parameters:

Integer - EQUALS, NOT EQUALS, GREATER, LESSER, IN
Text - CONTAINS, EQUALS, NOT EQUALS
Date - EQUALS, NOT EQUALS, GREATER, LESSER
Keyword - EQUALS, NOT EQUALS, IN
Boolean (true/false) - EQUALS, NOT EQUALS