



Qualys Custom Assessment and Remediation API Release Notes

Version 1.7.0

April 20, 2023

Qualys Custom Assessment and Remediation (CAR) API gives you many ways to integrate your programs and API calls with Qualys capabilities.

What's New

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Qualys API URL

Qualys CAR supports both API server URLs and API gateway URLs for API requests.

The Qualys API server or gateway 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 URL for Qualys Platform. (<qualys_base_url>) in sample API requests. Replace this URL with the appropriate server URL for your account as per the platform.

New API: Fetch List of Scripts from Library

APIs affected	/sm/v1/script-library/search
Method	Post
New or Updated APIs	New
DTD or XSD changes	Not Applicable

Use this API function to fetch a list of scripts from the script library. Use `filter` and `includeScriptContent` as input parameters. The response contains details of script like name, module code, script language, meta data, and so on.

Input Parameters

Parameter	Mandatory/Optional	Data Type	Description
<code>filter</code>	Optional	String	Filter the API results based on module code, script meta data and QID custom script meta data
<code>includeScriptContent</code>	Optional	String	Use to include the script content in list result.

For better categorization, we have modified the filter type which is present in existing APIs and added a new filter parameter script language. The response now has type which can be custom script and script language can be PowerShell-Command, VBScript, Python, PowerShell-Script, Shell, Perl, Lua.

Sample

The following sample request is fetching list of scripts based on a filter parameter as module code and detail must include script content.

API Request:

```
curl --location 'https://<qualys_base_url>/sm/v1/script-library/search' \
  --header 'Content-Type: application/json' \
  --header 'Authorization: <Bearer Token>' \
  --data '{
    "filter": "moduleCode:AUTOR",
    "includeScriptContent": true
  }'
```

Response:

```
[
  {
    "body": {
      "totalCount": 1,
      "list": [
        {
          "severity": 0,
          "scriptContent":
            "TyEvYmluL3NoCiMgVGhpcyBpcyBiYXNoIHByb2dyYW0gdG8gZGlzcGxheSBIZWxsbyBxb3Js
            ZAply2hvICIgSGVsbG8gV29ybGQgaW4gc2NyaXB0IDMiCg==",
          "customScriptMetadata": null,
          "moduleCode": "AUTOR",
          "scriptLanguage": {
            "name": "Shell",
            "id": 6
          },
          "created": {
            "dateTime": 1681122311775,
            "user": null
          },
          "description": null,
          "threshold": 0,
          "title": "script4.sh",
          "type": {
            "name": "Custom Script",
            "id": 1
          },
          "platform": "LINUX",
          "autorScriptsMetadata": {
            "tech": [
              "Windows 10",
              "CentOS 7.x"
            ],
            "name": "script4.sh",
            "policies": [
              "cis redhat 8 linux enterprise v3.1.0"
            ],
            "benchmarkType": "CIS",
            "cid": "7988"
          },
          "customScriptMetadata": null,
          "moduleCode": "AUTOR",
          "scriptLanguage": {
            "name": "PowerShell-Script",
            "id": 4
          }
        }
      ]
    }
  }
]
```

```
    },  
    "created": {  
      "dateTime": 1681736085425,  
      "user": null  
    },  
    "description": null,  
    "threshold": 0,  
    "title": "1052.ps1",  
    "type": {  
      "name": "Custom Script",  
      "id": 1  
    },  
    "platform": "WINDOWS",  
    "autorScriptsMetadata": {  
      "tech": [  
        "Red Hat Linux 7.0",  
        "Windows 10"  
      ],  
      "name": "1052.ps1",  
      "policies": [  
        "CIS Benchmark for Microsoft Windows 10 Enterprise  
RTM (Release 1511), v1.1.0 [Scored, Level 1+ BitLocker and Level 2+  
BitLocker] v.2.0"  
      ],  
      "benchmarkType": "CIS",  
      "cid": "7337"  
    },  
    "versions": [  
      {  
        "path": "AUTOR/Remediation/Custom  
Script/Windows/PowerShell-Script/v1/CIS/1052.ps1",  
        "version": "v1",  
        "sha": "d697ad836009ea29f86abf01d0bf1573e2ad563b"  
      }  
    ],  
    "vmdrScriptMetadata": null,  
    "id": "1039",  
    "lastUpdatedDateTime": 1681736085425,  
    "category": {  
      "name": "Remediation",  
      "id": 7  
    },  
    "disclaimer": null,  
    "status": null  
  }  
]  
}
```

New API: Get the Details of the Script from Library

APIs affected	/sm/v1/script-library/{id}
Method	Get
New or Updated APIs	New
DTD or XSD changes	Not Applicable

Use this API function to fetch the details of a script from the script library. The response contains details of script like name, platform, module code, when was it created, imported, and so on.

Sample

The following sample request fetches the request to list all details of the script based on ID provided in the request from script library.

API Request:

```
curl --location 'https://<qualys_base_url>/sm/v1/script-library/{Id}' \  
--header 'Authorization: < Bearer Token>'
```

Response:

```
{  
  "body": {  
    "id": 599,  
    "title": "1091.ps1",  
    "category": {  
      "id": 7,  
      "name": "Remediation"  
    },  
    "importedFromId": 0,  
    "platform": "WINDOWS",  
    "severity": 0,  
    "threshold": 0,  
    "type": {  
      "id": 1,  
      "name": "Custom Script"  
    },  
    "language": {  
      "id": 4,  
      "name": "PowerShell-Script"  
    },  
    "content":  
    "PCMKQ01EOiAxMDkxCiM+CiRyZWdrZXl fMTA5MSA9ICJIS0xNO1xTT0ZUV0FSRVxNaWNyb3Nv  
ZnRcV2luZG93cyBOVFxDdXJyZW50VmVyc2lvb1xXaW5sb2dvdvbiIKJG5hbWVfMTA5MSA9ICJQY  
XNzd29yZEV4cGlyeVdhcm5pbmciCiRydmFsdWVfMTA5MSA9ICIxNCIKJHR5cGVfMTA5MSA9IC  
JEV29yZCIKJHBhdGhfMTA5MSA9IFRlc3QtcGF0aCAKcmVna2V5XzEwOTEKIGlmKCRwYXR0XzE"
```

```
wOTEpewoJjGV4aXN0XzEwOTE9KEdldC1JdGVtICRyZWdrZX1fMTA5MSkuUHJvcGVydHkgLWNvbnRhaW5zICRyYW1lXzEwOTEKCUlmcKRleGlzdzF8xMDkxKXsKCQ1TZXQ0TSXRlbVByb3B1cnR5I
.
.
.
S0tLS0tLS0tLS0tLS0tLS0jCg==",
  "recurringDay": 0,
  "created": {
    "dateTime": 1681378249442,
    "user": null
  },
  "lastExecutedDateTime": 0,
  "importedScriptFromGitHub": false,
  "importedFromGitHubPubRepo": false,
  "importedUsingGitHubURL": false,
  "githubSyncEnabled": false,
  "githubAutoSync": false,
  "githubLastSyncDateTime": 0,
  "versions": [
    {
      "version": "v1",
      "path": "AUTOR/Remediation/Custom
Script/Windows/PowerShell-Script/v1/CIS/1091.ps1",
      "sha": "a5483ecab7055e281407796d5e606d485b242543"
    }
  ],
  "importedFromScriptLibrary": true,
  "moduleCode": "AUTOR",
  "autorScriptsMetadata": {
    "name": "1091.ps1",
    "benchmarkType": "CIS",
    "cid": "7983",
    "tech": [
      "Windows 10",
      "CentOS 7.x"
    ],
    "policies": [
      "CIS Benchmark for Microsoft Windows 10 Enterprise RTM
(Release 1511), v1.1.0 [Scored, Level 1+ BitLocker and Level 2+ BitLocker]
v.2.0"
    ]
  }
}
```

New API: Import Script

APIs affected	sm/v1/script-library/import
Method	Post
New or Updated APIs	New
DTD or XSD changes	Not Applicable

Use this API function to import a script from the script library. Use `title`, `categoryId`, `id` and `approved` status as input parameters.

Input Parameters

Parameter	Mandatory/Optional	Data Type	Description
<code>title</code>	Mandatory	String	Name of the script to be imported
<code>categoryId</code>	Mandatory	String	Category ID of the script to be imported
<code>id</code>	Mandatory	String	ID of the script in the library
<code>approved</code>	Mandatory	Boolean	Status of the script to be imported.{true/false}

Sample

The following sample request to import a script based on input parameters such as `title`, `categoryId`, `id` and `approved`.

API Request:

```
Curl --location 'https://<qualys_base_url>/sm/v1/script-library/import' \
\
--header 'Content-Type: application/json' \
--header 'Authorization: <Bearer Token>' \
--data '{
  "title": "File1.ps1",
  "categoryId": 211,
  "id": 2795,
  "approved": true
}'
```

Response:

```
{
  "errorCode": "0",
  "message": "Script created from library successfully",
  "body": {
```

```
    "id": 63509  
  }  
}
```


Modified the Type Filter in Public APIs

APIs affected	/sm/v1/scripts/search /sm/v1/jobs/search /sm/v1/assetjobs/search
Method	Post
New or Updated APIs	Updated
DTD or XSD changes	Not Applicable

For better categorization of filters, we have made the following changes in the filter query.

- Modified the type filter: the type filter now supports the value Custom Script
- Added a new filter – language: the language filter supports the values: PowerShell-Command, VBScript, Python, PowerShell-Script, Shell, Perl, Lua

The following APIs use the type and language filters:

- [List Scripts Based on Script Attributes](#)
- [List Script Jobs](#)
- [List Asset Jobs](#)

Refer to the following sample requests and response of the APIs.

List Scripts Based on Script Attributes

Search list of scripts for an user account. For more details of this API function refer to [Custom Assessment and Remediation API User Guide](#).

Sample for List Scripts Based on Script Attributes

API Request:

```
curl --location 'https://<qualys_base_url>/sm/v1/scripts/search' \  
--header 'Content-Type: application/json' \  
--header 'Authorization: <Bearer Token>' \  
--data '{  
  "filter": "language:PowerShell-Script",  
}'
```

Response:

```
{  
  "body": {  
    "totalCount": 1,  
    "list": [  
      {  
        "importedUsingGitHubURL": false,  

```

```
    "testAssets": null,  
    "importedFromId": 0,  
    "importedFromScriptLibrary": false,  
    "blacklistedCommands": "ri",  
    "description": "This script is for QID remediation of given  
vuln office QID",  
    "threshold": 300,  
    "language": {  
      "name": "PowerShell-Script",  
      "id": 4  
    },  
    "importedFromGitHubPublicRepo": false,  
    "title": "asp-scrrrript.ps1",  
    "type": {  
      "name": "Custom Script",  
      "id": 1  
    },  
    "excludedAssets": null,  
    "assetTags": null,  
    "platform": "WINDOWS",  
    "approverName": "Sahil Thorat",  
    "customerUuid": "74c1bcdd-9bbb-e9dd-802a-65e2c579abc0",  
    "assets": null,  
    "autorScriptsMetadata": null,  
    "vmdrScriptMetadata": null,  
    "id": "32533",  
    "disclaimer": null,  
    "severity": 3,  
    "customScriptMetadata": null,  
    "moduleCode": null,  
    "githubAutoSync": false,  
    "approverId": "ddf20f3a-cfd3-6fd4-81d0-53071ad1d389",  
    "created": {  
      "dateTime": 1681197273061,  
      "user": {  
        "name": "Sahil Thorat",  
        "id": "ddf20f3a-cfd3-6fd4-81d0-53071ad1d389"  
      }  
    },  
    "lastExecutedDateTime": 1681298850400,  
    "subscribedModules": null,  
    "scriptLibraryId": 0,  
    "schedule": {  
      "recurringDay": 0,  
      "recurringTime": null,  
      "frequency": null  
    },  
    "githubLastSyncDateTime": 0,  
    "githubSyncEnabled": false,
```

```
"hasBlacklistedCommands": true,
"qidData": {
  "severity": 5,
  "qds": 0,
  "detectionLogic": "Use Script",
  "title": "asp-script.ps1",
  "qid": 105971
},
"githubSyncStatus": null,
"category": {
  "name": "Data Backup",
  "id": 1
},
"updated": {
  "dateTime": 1681298850400,
  "user": {
    "name": "Sahil Thorat",
    "id": "ddf20f3a-cfd3-6fd4-81d0-53071ad1d389"
  }
},
"importedScriptFromGitHub": false,
"status": "APPROVED"
}
]
}
}
```

List Script Jobs

Search for the parent jobs that are created when you execute scripts. For more details of this API function refer to [Custom Assessment and Remediation API User Guide](#).

Sample for List Scripts Jobs

API Request:

```
curl --location 'https://<qualys_base_url>/sm/v1/jobs/search' \  
--header 'Content-Type: application/json' \  
--header 'Authorization: <Bearer Token>\' \  
--data '{  
  "filter": "scriptLanguage:PowerShell-Script",  
  "sort": "[{"id":\\"asc\\"}]"  
}'
```

Response:

```
{  
  "errorCode": null,  
  "message": null,  
  "body": {  
    "totalCount": 1,  
    "list": [  
      {  
        "severity": 3,  
        "test": false,  
        "scriptLanguage": "PowerShell-Script",  
        "created": {  
          "dateTime": 1681298850448  
        },  
        "executionType": "Manual",  
        "correlationUuid": "bf7288eb-768e-4892-800e-e62914d540f8",  
        "threshold": 300,  
        "title": "asp-scrrrript.ps1-1681298850",  
        "platform": "WINDOWS",  
        "updatedDateTime": 1681298850448,  
        "scriptId": 32533,  
        "customerUuid": "74c1bcdd-9bbb-e9dd-802a-65e2c579abc0",  
        "isTest": false,  
        "scriptType": "Custom Script",  
        "id": "29429",  
        "category": {  
          "name": "Data Backup",  
          "id": 1  
        }  
      }  
    ]  
  }  
}
```

List Asset Jobs

The asset job is created per asset when a script is executed on it. For more details of this API function refer to [Custom Assessment and Remediation API User Guide](#).

Sample for List Asset Jobs

API Request:

```
curl --location 'https://<qualys_base_url>sm/v1/assetjobs/search' \  
--header 'Content-Type: application/json' \  
--header 'Authorization: <Bearer Token>' \  
--data '{  
  "filter": "job.id:29429 AND (job.scriptLanguage:PowerShell-Script)"  
}'
```

Response:

```
{  
  "errorCode": null,  
  "message": null,  
  "body": {  
    "totalCount": 1,  
    "list": [  
      {  
        "test": false,  
        "durationInMillis": 4203,  
        "created": {  
          "dateTime": 1681298850983  
        }  
      },  
      {  
        "executionEndTime": 1681298884203,  
        "output": {  
          "code": 0,  
          "text": "EXECUTION PASSED"  
        }  
      },  
      {  
        "customerUuid": "74c1bcdd-9bbb-e9dd-802a-  
65e2c579abc0",  
        "enddate": "2023-04-12T11:28:05.039+00:00",  
        "isTest": false,  
        "executionStartTime": 1681298880000,  
        "id": "94779",  
        "job": {  
          "scriptId": 32533,  
          "scriptLanguage": "PowerShell-Script",  
          "scriptType": "Custom Script",  
          "scriptSeverity": 3,  
          "scriptName": "asp-scrrrript.ps1",  
          "correlationUuid": "bf7288eb-768e-4892-800e-  
e62914d540f8",
```

```
        "id": 29429,  
        "platform": "WINDOWS",  
        "scriptCategory": "Data Backup"  
    },  
    "asset": {  
        "address": "10.115.137.125",  
        "name": "FIM203",  
        "id": 22467561,  
        "agentUuid": "665266f4-2474-4678-be93-  
a67575a2d4bb",  
        "operatingSystem": "Microsoft Windows 10 Pro  
10.0.19044 64-bit N/A Build 19044",  
        "tags": [  
            {  
                "name": "Cloud Agent",  
                "tagUuid": "5d551f4b-038e-4076-a111-  
52ce3a1443e9",  
                "id": 16245104  
            }  
        ]  
    },  
    "manifestId": "3ac2bbd0-0423-48bc-a8a4-fef24be9e2db",  
    "status": "EXECUTION PASSED"  
}  
]  
}
```