# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preface</td>
<td>4</td>
</tr>
<tr>
<td>About Qualys</td>
<td>4</td>
</tr>
<tr>
<td>Contact Qualys Support</td>
<td>4</td>
</tr>
<tr>
<td><strong>Chapter 1 - Welcome</strong></td>
<td>5</td>
</tr>
<tr>
<td>Qualys API Framework</td>
<td>5</td>
</tr>
<tr>
<td>Qualys API URL</td>
<td>6</td>
</tr>
<tr>
<td>Qualys API Postman Collection</td>
<td>6</td>
</tr>
<tr>
<td>Introduction to FIM API Paradigm</td>
<td>7</td>
</tr>
<tr>
<td><strong>Chapter 2 - FIM Events API</strong></td>
<td>9</td>
</tr>
<tr>
<td>Fetch events</td>
<td>9</td>
</tr>
<tr>
<td>Get event count</td>
<td>12</td>
</tr>
<tr>
<td>Fetch event details</td>
<td>13</td>
</tr>
<tr>
<td><strong>Chapter 3 - Ignored FIM Events API</strong></td>
<td>16</td>
</tr>
<tr>
<td>Fetch ignored events</td>
<td>16</td>
</tr>
<tr>
<td>Get ignored events count</td>
<td>19</td>
</tr>
<tr>
<td>Fetch ignored event details</td>
<td>20</td>
</tr>
<tr>
<td><strong>Chapter 4 - FIM Incidents API</strong></td>
<td>23</td>
</tr>
<tr>
<td>Fetch incidents</td>
<td>23</td>
</tr>
<tr>
<td>Fetch events for an incident</td>
<td>25</td>
</tr>
<tr>
<td>Get event count for an incident</td>
<td>28</td>
</tr>
<tr>
<td>Get incident count</td>
<td>29</td>
</tr>
</tbody>
</table>
Preface

This user guide is intended for application developers who will use the Qualys FIM 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 apps help businesses simplify security operations and lower the cost of compliance by delivering critical security intelligence on demand and automating the full spectrum of auditing, compliance and protection for IT systems and web applications.

Founded in 1999, Qualys has established strategic partnerships with leading managed service providers and consulting organizations including Accenture, BT, Cognizant Technology Solutions, Deutsche Telekom, Fujitsu, HCL, HP Enterprise, IBM, Infosys, NTT, Optiv, SecureWorks, Tata Communications, Verizon and Wipro. The company is also a founding member of the Cloud Security Alliance (CSA). For more information, please visit www.qualys.com.

Contact Qualys Support

Qualys is committed to providing you with the most thorough support. Through online documentation, telephone help, and direct email support, Qualys ensures that your questions will be answered in the fastest time possible. We support you 7 days a week, 24 hours a day. Access support information at www.qualys.com/support/.
Chapter 1 - Welcome

Welcome to File Integrity Monitoring API.

Get Started

Qualys API Framework - Learn the basics about making API requests. The base URL depends on the platform where your Qualys account is located.

Introduction to FIM API Paradigm - Get tips on using the Curl command-line tool to make API requests. Every API request must authenticate using a JSON Web Token (JWT) obtained from the Qualys Authentication API.

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From our Community

Join our Community

API Notifications RSS Feeds

Qualys API Framework

The Qualys File Integrity Monitoring API uses the following framework.

Request URL

The URL for making API requests respects the following structure:

https://<baseurl>/<module>/<object>/<object_id>/<operation>

where the components are described below.

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;baseurl&gt;</td>
<td>The Qualys API server URL that you should use for API requests depends on the platform where your account is located. The base URL for Qualys US Platform 1 is: <a href="https://gateway.qg1.apps.qualys.com">https://gateway.qg1.apps.qualys.com</a></td>
</tr>
<tr>
<td>&lt;module&gt;</td>
<td>The API module. For the FIM API, the module is: &quot;fim&quot;.</td>
</tr>
<tr>
<td>&lt;object&gt;</td>
<td>The module specific object.</td>
</tr>
<tr>
<td>&lt;object_id&gt;</td>
<td>(Optional) The module specific object ID, if appropriate.</td>
</tr>
<tr>
<td>&lt;operation&gt;</td>
<td>The request operation, such as count.</td>
</tr>
</tbody>
</table>
Qualys API URL

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 gateway URL for Qualys US Platform 1 (https://gateway.qg1.apps.qualys.com) in sample API requests. If you’re on another platform, please replace this URL with the appropriate gateway URL for your account.

Qualys API Postman Collection

Interact with Qualys APIs using Postman. Instead of creating calls manually to send over the command line, you can use the Qualys Postman Collection to get started with Qualys APIs quickly.

Click here to view the steps involved
Introduction to FIM API Paradigm

Authentication

You must authenticate to the Qualys Cloud Platform using Qualys account credentials (user name and password) and get the JSON Web Token (JWT) before you can start using the FIM APIs. Use the Qualys Authentication API to get the JWT.

For example,

```
curl -X POST https://gateway.qg1.apps.qualys.com/auth -d
"username=value1&password=passwordValue&token=true" -H "Content-Type: application/x-www-form-urlencoded"
```

where gateway.qg1.apps.qualys.com is the base URL to the Qualys API server where your account is located.

- **username** and **password** are the credentials of the user account for which you want to fetch FIM data
- **token** should be true
- **Content-Type** should be "application/x-www-form-urlencoded"

The Authentication API returns a JSON Web Token (JWT) which you can use for authentication during FIM API calls. The token expires in 4 hours. You must regenerate the token to continue using the FIM API.

Using Curl

**Curl** is a multi-platform command-line tool used to transfer data using multiple protocols. This tool is supported on many systems, including Windows, Unix, Linux and Mac. In this document Curl is used in the examples to build Qualys API requests using the HTTP over SSL (https) protocol, which is required.

Want to learn more? Visit [https://curl.haxx.se/](https://curl.haxx.se/)

The following Curl options are used according to different situations:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-G</td>
<td>The GET method is required for all FIM API requests.</td>
</tr>
<tr>
<td>-H &quot;Authorization: Bearer &lt;token&gt;&quot;</td>
<td>This option is used to provide a custom HTTP request header parameter for authentication. Provide the JSON Web Token (JWT) received from Qualys authentication API in the following format: Authorization: Bearer &lt;token&gt; For information about Qualys authentication API, see <a href="#">Authentication</a>.</td>
</tr>
<tr>
<td>--data-urlencode</td>
<td>Used to encode spaces and special characters in the URL/Parameter values.</td>
</tr>
</tbody>
</table>
The sample below shows a typical Curl request using options mentioned above and how they interact with each other.

Chapter 2 - FIM Events API

Use these API functions to fetch FIM event data.

**Fetch events**

Get event count

Fetch event details

**Fetch events**

/fim/v1/events

[GET]

Get FIM events from the user account.

**Input Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>filter (String)</td>
<td>Filter the events list by providing a query using Qualys syntax. Refer to the &quot;How to Search&quot; topic in the online help for assistance with creating your query. For example - dateTime:[&quot;2019-02-25T18:30:00.000Z&quot;,&quot;2019-02-26T18:29:59.999Z&quot;] AND action: 'Create' Note: For dateTime filter start date should not be lower than 2017-01-01.</td>
</tr>
<tr>
<td>pageNumber (String)</td>
<td>The page to be returned. Starts from zero.</td>
</tr>
<tr>
<td>pageSize (String)</td>
<td>The number of records per page to be included in the response. Default is 10.</td>
</tr>
<tr>
<td>sort (String)</td>
<td>Sort the results using a Qualys token. For example - [&quot;&quot;action\&quot;&quot;:\&quot;asc\&quot;]</td>
</tr>
<tr>
<td>incidentContext (Boolean)</td>
<td>Search within incidents. Default is false.</td>
</tr>
<tr>
<td>incidentIds (String)</td>
<td>List of incident IDs to be included while searching for events in incidents.</td>
</tr>
<tr>
<td>Authorization (String)</td>
<td>(Required) Authorization token to authenticate to the Qualys Cloud Platform. Prepend token with &quot;Bearer&quot; and one space. For example - Bearer authToken</td>
</tr>
</tbody>
</table>

**Sample**

Request:

```bash
```
Response:

[

{
  "dateTime": "2019-02-26T10:16:28.163+0000",
  "fullPath": "C:\\Device\\HarddiskVolume2\\Windows\\Temp\\8F621E57-A9B6-410E-B396-E0BDCCCC5C0C\\API-MS-Win-security-provider-L1-1-0.dll",
  "severity": 5,
  "profiles": [
    {
      "name": "Windows Profile - PCI John",
      "rules": [
        {
          "severity": 5,
          "description": null,
          "id": "82531aac-a627-40bd-9a13-201a0917217e",
          "type": "directory"
        }
      ],
      "id": "0d0a12f7-6472-4288-b126-aab5e8328ebf",
      "type": "WINDOWS",
      "category": {
        "name": "PCI",
        "id": "2dab5022-2fdd-11e7-93ae-92361f002671"
      }
    }
  ],
  "type": "File",
  "changedAttributes": [2]
},
  "platform": "WINDOWS",
  "oldContent": null,
  "actor": {
    "process": "powershell.exe",
    "processID": 7108,
    "imagePath": "C:\\Device\\HarddiskVolume2\\WINDOWS\\system32\\WindowsPowerShell\\v1.0\\powershell.exe",
    "userName": "NT AUTHORITY\\SYSTEM",
    "userID": "S-1-5-18"
  },
  "newContent": null,
  "customerId": "f59b9543-51f8-7130-83c6-b8a2fd457509",
  "name": "API-MS-Win-security-provider-L1-1-0.dll"
]
"action": "Create",
"id": "c1e96d55-cdef-37ac-973b-f23bf9b0238b",
"asset": {
    "agentId": "e2fe083e-1da3-41f4-b814-58871c16da45",
    "interfaces": [
        {
            "hostname": null,
            "macAddress": "00-00-00-00-00-00-E0",
            "address": "fe80:0:0:0:28c5:194e:f58c:b413",
            "interfaceName": "Teredo Tunneling Pseudo-Interface"
        },
        {
            "hostname": "SHISHU-WIN10-VM",
            "macAddress": "00:50:56:AA:DC:C1",
            "address": "10.115.75.236",
            "interfaceName": "Intel(R) 82574L Gigabit Network Connection"
        }
    ],
    "lastCheckedIn": "2019-02-22T02:40:47.000Z",
    "created": 1529296486000,
    "hostId": null,
    "operatingSystem": "Microsoft Windows 10 Pro 10.0.16299 N/A Build 16299",
    "tags": ["7509812", "7509619"],
    "assetType": "HOST",
    "system": {
        "lastBoot": "2019-02-18T17:42:08.000Z"
    },
    "ec2": null,
    "lastLoggedOnUser": ".\Administrator",
    "netbiosName": "SHISHU-WIN10-VM",
    "name": "SHISHU-WIN10-VM",
    "agentVersion": "2.0.6.1",
    "updated": 1529635248743
},
"class": "Disk"}
Get event count
/fim/v1/events/count

[GET]
Get number of FIM events logged.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>filter (String)</td>
<td>Filter the events list by providing a query using Qualys syntax.</td>
</tr>
<tr>
<td></td>
<td>Refer to the “How to Search” topic in the online help for assistance with creating your query.</td>
</tr>
<tr>
<td></td>
<td>For example - dateTime:['2019-02-25T18:30:00.000Z', '2019-02-26T18:29:59.999Z'] AND action: 'Content'</td>
</tr>
<tr>
<td></td>
<td>Note: For dateTime filter start date should not be lower than 2017-01-01.</td>
</tr>
<tr>
<td>groupBy (String)</td>
<td>Group results based on certain parameters (provide comma separated list).</td>
</tr>
<tr>
<td></td>
<td>For example - action</td>
</tr>
<tr>
<td>limit (String)</td>
<td>Limit the number of rows fetched by the groupBy function.</td>
</tr>
<tr>
<td>sort (String)</td>
<td>Sort the results using a Qualys token. For example - ([&quot;dateTime&quot;:&quot;asc&quot;])</td>
</tr>
<tr>
<td>interval (String)</td>
<td>GroupBy interval for date fields. Valid values are y(year), q(quarter), M(month), w(week), d(day), h(hour), m(minute), s(second). For example - 1d</td>
</tr>
<tr>
<td></td>
<td>An interval lower than a second is not supported.</td>
</tr>
<tr>
<td></td>
<td>Note: Value for each interval period should be 1. For example, you can specify an interval of 1y, 1M, 1w, and so on, but not 2y, 3M, etc.</td>
</tr>
<tr>
<td>incidentContext (Boolean)</td>
<td>Search within incidents. Default is false.</td>
</tr>
<tr>
<td>incidentIds (String)</td>
<td>List of incident IDs to be included while searching for events in incidents.</td>
</tr>
</tbody>
</table>

Authorization (String)
(Required) Authorization token to authenticate to the Qualys Cloud Platform. Prepend token with "Bearer" and one space. For example - Bearer authToken

Sample
Request:
Response:
{
  "Rename": 9030024, "Attributes": 541520, "Delete": 340857,
  "Create": 265141, "Security": 189813, "Content": 29497
}

Fetch event details

/fim/v1/events/{eventId}

[GET]
Fetch details for an event.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>eventId</td>
<td>(Required) ID of the event you want to fetch the details for.</td>
</tr>
<tr>
<td>Authorization</td>
<td>(Required) Authorization token to authenticate to the Qualys Cloud Platform. Prepend token with &quot;Bearer&quot; and one space. For example - Bearer authToken</td>
</tr>
</tbody>
</table>

Sample

Request:

curl -G  

Response:
{
  "dateTime": "2019-02-15T15:09:00.023+0000",
  "fullPath": "Device\HarddiskVolume2\Windows\System32\sr
SRU.log ",
  "severity": 3,
  "profiles": [{
    "name": "Just Test",
    "rules": [{
      "severity": 3,
      "number": 6,
      "name": "name 2",
      "description": "",
      "section": {
        "customerId": "f59b9543-51f8-7130-83c6-b8a2fd457509",
        "id": "733ef4ff-0d4c-4124-8b07-6cc5098e0356",
        "name": "section 001",
      }
    }
  ]
}
"profileId": "d4fe6f29-b798-4637-ae15-ea40bc5b8de9",
"references": [{
   "links": [
      "test.abc",
      "test2.abc"
   ],
   "description": "test ref"
}],
"deleted": false,
"categoryID": "4e4d7131-a96a-4427-9c68-d444413e4904",
"createdBy": {
   "date": 1543225080098
},
"updatedBy": {
   "date": 1543225080098
},
"id": "b16c97ad-ef21-46c7-8a4d-428b71d36189",
"type": "directory"
},
"id": "d4fe6f29-b798-4637-ae15-ea40bc5b8de9",
"type": "WINDOWS",
"category": {
   "name": "test0",
   "id": "aed6533e-f110-4b9b-b586-7777cbbc0ea07"
}
},
"type": "File",
"changedAttributes": null,
"platform": "WINDOWS",
"oldContent": null,
"actor": {
   "process": "svchost.exe",
   "processID": 3016,
   "imagePath": "\Device\HarddiskVolume2\windows\system32\svchost.exe",
   "userName": "NT AUTHORITY\LOCAL SERVICE",
   "userID": "S-1-5-19"
},
"newContent": null,
"customerId": "f59b9543-51f8-7130-83c6-b8a2fd457509",
"name": "SRU.log",
"action": "Content"
"id": "e29a283d-39bf-397b-9044-a9004b5941f8",
"asset": {
    "agentId": "47a9921f-c0e2-4663-9c31-a109dfaf2bf8",
    "interfaces": [
        {
            "hostname": "FIMTEST1",
            "macAddress": "00:50:56:AA:75:71",
            "address": "10.115.78.231",
            "interfaceName": "Intel(R) 82574L Gigabit Network Connection"
        }
    ],
    "lastCheckedIn": "2019-02-14T07:35:23.000Z",
    "created": "2019-02-21T11:09:33.000+0000",
    "hostId": "12042",
    "operatingSystem": "Microsoft Windows 10 Pro 10.0.17134 N/A Build 17134",
    "tags": [
        "7509619",
        "7538812"
    ],
    "assetType": "HOST",
    "system": {
        "lastBoot": "2019-02-28T21:18:33.000Z"
    },
    "ec2": null,
    "lastLoggedOnUser": ". Administrator",
    "netbiosName": "FIMTEST1",
    "name": "FIMTESTab",
    "agentVersion": "2.0.6.1",
    "updated": "2019-02-14T07:35:23.949+0000"
},
"incidentId": "fe19d6c2-27e2-4096-bd62-a8798d9f0673",
"class": "Disk"
Chapter 3 - Ignored FIM Events API

Use these API functions to fetch FIM event data for ignored events.

**Fetch ignored events**

**/fim/v1/events/ignore**

[GET]

Get FIM events that are ignored.

**Input Parameters**

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>filter (String)</td>
<td>Filter the events list by providing a query using Qualys syntax. Refer to the &quot;How to Search&quot; topic in the online help for assistance with creating your query. For example - dateTime:['2019-02-25T18:30:00.000Z','2019-02-26T18:29:59.999Z'] Note: For dateTime filter start date should not be lower than 2017-01-01.</td>
</tr>
<tr>
<td>pageNumber (String)</td>
<td>The page to be returned. Starts from zero.</td>
</tr>
<tr>
<td>pageSize (String)</td>
<td>The number of records per page to be included in the response. Default is 10.</td>
</tr>
<tr>
<td>sort (String)</td>
<td>Sort the results using a Qualys token. For example - [&quot;&quot;action&quot;&quot;:&quot;asc&quot;]</td>
</tr>
<tr>
<td>Authorization (String)</td>
<td>(Required) Authorization token to authenticate to the Qualys Cloud Platform. Prepend token with &quot;Bearer&quot; and one space. For example - Bearer authToken</td>
</tr>
</tbody>
</table>

**Sample**

**Request:**


**Response:**

```javascript
[
  {
    "dateTime": "2019-02-14T18:29:22.668+0000",
    "fullPath":
```
"\Device\HarddiskVolume2\Windows\ServiceProfiles\LocalService \AppData\Local\lastalive1.dat",
  "severity": 4,
  "profiles": [
    {
      "name": "UW_FIM_Profile",
      "rules": [
        {
          "severity": 4,
          "description": null,
          "id": "06fedb6f-47f0-4edf-94c2-b08fd92f2c75",
          "type": "directory"
        }
      ],
      "id": "1cbdf2f2-f9b3-4d94-a22c-07945aa9507b",
      "type": "WINDOWS",
      "category": {
        "name": "PCI",
        "id": "2dab5022-2fdd-11e7-93ae-92361f002671"
      }
    }
  ],
  "type": "File",
  "changedAttributes": null,
  "platform": "WINDOWS",
  "oldContent": null,
  "actor": {
    "process": "svchost.exe",
    "processID": 660,
    "imagePath": "\Device\HarddiskVolume2\Windows\System32\svchost.exe",
    "userName": "NT AUTHORITY\LOCAL SERVICE",
    "userID": "S-1-5-19"
  },
  "newContent": null,
  "ignoreDate": "2019-02-13",
  "customerId": "f59b9543-51f8-7130-83c6-b8a2fd457509",
  "name": "lastalive1.dat",
  "action": "Delete",
  "id": "e442fd5c-0c11-3b0d-b927-62e1c9e1f870",
  "asset": {
    "agentId": "e8a3cbf5-f617-4d58-a975-f40bc29daac2",
    "interfaces": [
      {
        "hostname": "WIN-890BLRMESC6",
        "macAddress": "00:50:56:AA:F6:02",
        "ipAddress": "192.168.1.100",
        "port": 80
      }
    ]
  }
}
| **address**: "10.115.74.175",
| **interfaceName**: "Intel(R) 82574L Gigabit Network Connection"
| **lastCheckedIn**: "2019-02-14T09:09:09.000Z",
| **created**: 1534229941000,
| **hostId**: "12029",
| **operatingSystem**: "Microsoft Windows Server 2012 R2 Standard 6.3.9600 N/A Build 9600",
| **tags**: [ "7532413", "7509619" ]
| **assetType**: "HOST",
| **system**: { 
| **lastBoot**: "2019-02-07T11:30:11.000Z"
},
| **ec2**: null,
| **lastLoggedOnUser**: "administrator",
| **netbiosName**: "WIN-890BLRMESC6",
| **name**: "UW_WIN-2012_SERV",
| **agentVersion**: "2.2.0.40",
| **updated**: 1534242468684
| **class**: "Disk"
|}
Get ignored events count

/fim/v1/events/ignore/count

[GET]
Get number of ignored events logged.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>filter (String)</td>
<td>Filter the events list by providing a query using Qualys syntax. Refer to the “How to Search” topic in the online help for assistance with creating your query. For example - dateTime: [&quot;2019-02-25T18:30:00.000Z&quot;,&quot;2019-02-26T18:29:59.999Z&quot;] AND action: ‘Content’ Note: For dateTime filter start date should not be lower than 2017-01-01.</td>
</tr>
<tr>
<td>groupBy (String)</td>
<td>Group results based on certain parameters (provide comma separated list). For example - action</td>
</tr>
<tr>
<td>limit (String)</td>
<td>Limit the number of rows fetched by the groupBy function.</td>
</tr>
<tr>
<td>sort (String)</td>
<td>Sort the results using a Qualys token. For example - [{&quot;dateTime&quot;:&quot;asc&quot;}]</td>
</tr>
<tr>
<td>interval (String)</td>
<td>GroupBy interval for date fields. Valid values are y(year), q(quarter), M(month), w(week), d(day), h(hour), m(minute), s(second). For example - 1d An interval lower than a second is not supported. Note: Value for each interval period should be 1. For example, you can specify an interval of 1y, 1M, 1w, and so on, but not 2y, 3M, etc.</td>
</tr>
<tr>
<td>Authorization (String)</td>
<td>(Required) Authorization token to authenticate to the Qualys Cloud Platform. Prepend token with “Bearer” and one space. For example - Bearer authToken</td>
</tr>
</tbody>
</table>

Sample

Request:
curl -G

Response:

```json
{
    "count": 31
}
```
Fetch ignored event details

/fim/v1/events/ignore/{ignoredEventId}

[GET]

Fetch details for an ignored event.

**Input Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>eventId (String)</td>
<td>(Required) ID of the ignored event you want to fetch the details for.</td>
</tr>
<tr>
<td>Authorization (String)</td>
<td>(Required) Authorization token to authenticate to the Qualys Cloud Platform. Prepend token with &quot;Bearer&quot; and one space. For example - Bearer authToken</td>
</tr>
</tbody>
</table>

**Sample Request:**

curl -G "https://gateway.qg1.apps.qualys.com/fim/v1/events/ignore/e442fd5c-0c11-3b0d-b927-62e1c9e1f870" -H "Authorization: Bearer <token>"

**Response:**

```json
{
   "dateTime": "2019-02-14T18:29:22.668+0000",
   "fullPath": "\Device\HarddiskVolume2\Windows\ServiceProfiles\LocalService\AppData\Local\lastalive1.dat",
   "severity": 4,
   "profiles": [
      {
         "name": "UW_FIM_Profile",
         "rules": [
            {
               "severity": 4,
               "description": null,
               "id": "06fedb6f-47f0-4edf-94c2-b08fd92f2c75",
               "type": "directory"
            }
         ]
      },
      {
         "id": "1cbdf2f2-f9b3-4d94-a22c-07945aa9507b",
         "type": "WINDOWS",
         "category": {
            "name": "PCI",
            "id": "2dab5022-2fdd-11e7-93ae-92361f002671"
         }
      }
   ]
}
```
Chapter 3 - Ignored FIM Events API

Fetch ignored event details

```json
{
  "type": "File",
  "changedAttributes": null,
  "platform": "WINDOWS",
  "oldContent": null,
  "actor": {
    "process": "svchost.exe",
    "processID": 660,
    "imagePath": "C:\\Device\\HarddiskVolume2\\Windows\\System32\\svchost.exe",
    "userName": "NT AUTHORITY\\LOCAL SERVICE",
    "userID": "S-1-5-19"
  },
  "newContent": null,
  "ignoreDate": "2019-02-13",
  "customerId": "f59b9543-51f8-7130-83c6-b8a2fd457509",
  "name": "lastalive1.dat",
  "action": "Delete",
  "id": "e442fd5c-0c11-3b0d-b927-62el9e1f870",
  "asset": {
    "agentId": "e8a3cbf5-f617-4d58-a975-f40bc29daac2",
    "interfaces": [
      {
        "hostname": "WIN-890BLRMESC6",
        "macAddress": "00:50:56:AA:F6:02",
        "address": "10.115.74.175",
        "interfaceName": "Intel(R) 82574L Gigabit Network Connection"
      }
    ],
    "lastCheckedIn": "2019-02-14T09:05:09.000Z",
    "created": 1534229941000,
    "hostId": "12029",
    "operatingSystem": "Microsoft Windows Server 2012 R2 Standard 6.3.9600 N/A Build 9600",
    "tags": [
      7532413",
      7509619
    ],
    "assetType": "HOST",
    "system": {
      "lastBoot": "2019-02-07T11:30:11.000Z"
    },
    "ec2": null,
    "lastLoggedOnUser": "administrator"
  }
}
```
"netbiosName": "WIN-890BLRMESC6",
"name": "UW_WIN-2012_SERV",
"agentVersion": "2.2.0.40",
"updated": 1534242468684
},
"class": "Disk"}
Chapter 4 - FIM Incidents API

Use these API functions to fetch FIM incident data.

Fetch incidents
Fetch events for an incident
Get event count for an incident
Get incident count

Fetch incidents

/fim/v1/incidents

[GET]
Get FIM incidents for an user account.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>filter (String)</td>
<td>Filter the incidents list by providing a query using Qualys syntax. Refer to the &quot;How to Search&quot; topic in the online help for assistance with creating your query. For example - action: 'Content'</td>
</tr>
<tr>
<td>pageNumber (String)</td>
<td>The page to be returned. Starts from zero.</td>
</tr>
<tr>
<td>pageSize (String)</td>
<td>The number of records per page to be included in the response. Default is 10.</td>
</tr>
<tr>
<td>sort (String)</td>
<td>Sort the results using a Qualys token. For example - [{&quot;action&quot;:&quot;asc&quot;}]</td>
</tr>
<tr>
<td>attributes (String)</td>
<td>Search based on certain attributes (provide comma separated list).</td>
</tr>
<tr>
<td>Authorization (String)</td>
<td>(Required) Authorization token to authenticate to the Qualys Cloud Platform. Prepend token with &quot;Bearer&quot; and one space. For example - Bearer authToken</td>
</tr>
</tbody>
</table>

Sample

Request:

Response:
[
{
"approvalStatus": null,
"dateTime": "2019-02-03T18:30:00.000+0000",
"lastUpdatedBy": {
"date": 1541396385773,
"user": {
"name": "John Doe",
"id": "b888f3e6-9956-d7be-8354-bc49e6df4daf"
}
},
"filterToDate": "2019-02-04T18:29:59.999+0000",
"approvalDate": null,
"assignDate": "2019-02-04T08:43:01.687+0000",
"changeType": null,
"approvalType": "MANUAL",
"filters": [
"dateTime: ['2019-02-03T18:30:00.000Z'..'2019-02-04T18:29:59.999Z'] and action:"Security"
],
"reviewers": [
"quays_dr"
],
"deleted": false,
"filterFromDate": "2019-02-03T18:30:00.000+0000",
"createdBy": {
"date": 1538642581681,
"user": {
"name": "John Doe",
"id": "b888f3e6-9956-d7be-8354-bc49e6df4daf"
}
},
"customerId": "f59b9543-51f8-7130-83c6-b8a2fd457509",
"name": "Security incident",
"comment": "patch\n",
"dispositionCategory": null,
"id": "4989f531-ce9d-4d35-a4c8-1edcdd1d1ce6",
"status": "REOPENED"
}
]
Fetch events for an incident

/fim/v1/incidents/{incidentId}/events

[GET]

Get events logged under an incident.

**Input Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>incidentId (String)</td>
<td>(Required) ID of the incident you want to fetch the events for.</td>
</tr>
<tr>
<td>filter (String)</td>
<td>Filter the events list by providing a query using Qualys syntax. Refer to the &quot;How to Search&quot; topic in the online help for assistance with creating your query. For example - action: 'Content'</td>
</tr>
<tr>
<td>pageNumber (String)</td>
<td>The page to be returned. Starts from zero.</td>
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<td>Sort the results using a Qualys token. For example - [{&quot;action&quot;:&quot;asc&quot;}]</td>
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<tr>
<td>attributes (String)</td>
<td>Search based on certain attributes (provide comma separated list).</td>
</tr>
<tr>
<td>Authorization (String)</td>
<td>(Required) Authorization token to authenticate to the Qualys Cloud Platform. Prepend token with &quot;Bearer&quot; and one space. For example - Bearer authToken</td>
</tr>
</tbody>
</table>

**Sample**

**Request:**

```bash
```

**Response:**

```json
[

{
  "dateTime": "2019-02-10T10:11:35.009+0000",
  "fullPath": "\Device\HarddiskVolume2\Program Files (x86)\Google\Chrome\Application\68.0.3440.106\Locales",
  "severity": 5,
  "profiles": [
    {
      "name": "My Test Recommended Baseline for Windows OS",
      "rules": [
        {
          "severity": 5,
          "description": null,
```
Chapter 4 - FIM Incidents API
Fetch events for an incident

```
"id": "13a8f363-cdc1-4d7a-a978-c1dc3dca6cad",
"type": "directory"
}
]
,"id": "c3a98bb0-4217-4ccd-9ea5-f5f5366453b3",
"type": "WINDOWS",
"category": {
  "name": "PCI",
  "id": "2dab5022-2fdd-11e7-93ae-92361f002671"
}
},
{
  "name": "My Test Minimum Baseline for PCI for Windows OS",
  "rules": [
    {
      "severity": 5,
      "description": null,
      "id": "b30eb36f-2921-40da-aad5-a5849695cea5",
      "type": "directory"
    }
  ],
  "id": "faa130d3-37b5-4d7b-bca8-2cab9fc0b552",
  "type": "WINDOWS",
  "category": {
    "name": "PCI",
    "id": "2dab5022-2fdd-11e7-93ae-92361f002671"
  }
}
],
"type": "Directory",
"changedAttributes": [1],
"platform": "WINDOWS",
"oldContent": null,
"actor": {
  "process": "setup.exe",
  "processID": 15220,
  "imagePath": "\Device\HarddiskVolume2\WINDOWS\TEMP\CR_7C2AD.tmp\setup.exe",
  "userName": "NT AUTHORITY\SYSTEM",
  "userID": "S-1-5-18"
},
"newContent": null,
"customerId": "f59b9543-51f8-7130-83c6-b8a2fd457509",
```
"name": "Locales",
"action": "Security",
"id": "582f946a-44b0-388b-9605-74a23a37f893",
"asset": {
  "agentId": "47a9921f-c0e2-4663-9c31-a109dfaf2bf8",
  "interfaces": [
    {
      "hostname": "FIMTEST1",
      "macAddress": "00:50:56:AA:75:71",
      "address": "10.115.78.231",
      "interfaceName": "Intel(R) 82574L Gigabit Network Connection"
    }
  ],
  "lastCheckedIn": "2019-02-10T10:21:52.000Z",
  "created": 1529579373000,
  "hostId": "12042",
  "operatingSystem": "Microsoft Windows 10 Pro 10.0.17134 N/A Build 17134",
  "tags": [
    7509619,
    7523616,
    7526812,
    7523614,
    7523615,
    7509812,
    7529412
  ],
  "assetType": "HOST",
  "system": {
    "lastBoot": "2019-02-29T16:49:24.000Z"
  },
  "ec2": null,
  "lastLoggedOnUser": ".\Administrator",
  "netbiosName": "FIMTEST1",
  "name": "FIMTESTabc",
  "agentVersion": "2.0.6.1",
  "updated": 1536574912853
},
"incidentId": "4989f531-ce9d-4d35-a4c8-1edcdd1d1ce6",
"class": "Disk"}
Get event count for an incident

/fim/v1/incidents/{incidentId}/events/count

[GET]

Get number of events logged for an incident.

**Input Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>incidentId</td>
<td>(Required) ID of the incident you want to fetch the events for.</td>
</tr>
<tr>
<td>filter</td>
<td>Filter the incidents list by providing a query using Qualys syntax. Refer</td>
</tr>
<tr>
<td></td>
<td>to the &quot;How to Search&quot; topic in the online help for assistance with</td>
</tr>
<tr>
<td></td>
<td>creating your query. For example - action: 'Content'</td>
</tr>
<tr>
<td>groupBy</td>
<td>Group results based on certain parameters (provide comma separated list).</td>
</tr>
<tr>
<td></td>
<td>For example - action</td>
</tr>
<tr>
<td>limit</td>
<td>Limit the number of rows fetched by the groupBy function.</td>
</tr>
<tr>
<td>sort</td>
<td>Sort the results using a Qualys token. For example - [&quot;\dateTime:&quot;asc&quot;]</td>
</tr>
<tr>
<td>interval</td>
<td>GroupBy interval for date fields. Valid values are y(year), q(quarter),</td>
</tr>
<tr>
<td></td>
<td>M(month), w(week), d(day), h(hour), m(minute), s(second). For example - 1d</td>
</tr>
<tr>
<td></td>
<td>An interval lower than a second is not supported.</td>
</tr>
<tr>
<td></td>
<td>Note: Value for each interval period should be 1. For example, you can</td>
</tr>
<tr>
<td></td>
<td>specify an interval of 1y, 1M, 1w, and so on, but not 2y, 3M, etc.</td>
</tr>
<tr>
<td>Authorization</td>
<td>(Required) Authorization token to authenticate to the Qualys Cloud Platform.</td>
</tr>
<tr>
<td></td>
<td>Prepend token with &quot;Bearer&quot; and one space. For example - Bearer authToken</td>
</tr>
</tbody>
</table>

**Sample**

**Request:**

```bash
```

**Response:**

```json
{
    "count": 339
}
```
Get incident count

/fim/v1/incidents/count

[GET]

Get number of incidents in an user account.

**Input Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>filter (String)</td>
<td>Filter the incidents list by providing a query using Qualys syntax. Refer to the “How to Search” topic in the online help for assistance with creating your query. For example - action: 'Content'</td>
</tr>
<tr>
<td>groupBy (String)</td>
<td>Group results based on certain parameters (provide comma separated list). For example - action</td>
</tr>
<tr>
<td>limit (String)</td>
<td>Limit the number of rows fetched by the groupBy function.</td>
</tr>
<tr>
<td>sort (String)</td>
<td>Sort the results using a Qualys token. For example - [{&quot;dateTime&quot;:&quot;asc&quot;]}</td>
</tr>
<tr>
<td>interval (String)</td>
<td>GroupBy interval for date fields. Valid values are y(year), q(quarter), M(month), w(week), d(day), h(hour), m(minute), s(second). For example - 1d An interval lower than a second is not supported. Note: Value for each interval period should be 1. For example, you can specify an interval of 1y, 1M, 1w, and so on, but not 2y, 3M, etc.</td>
</tr>
</tbody>
</table>

**Authorization (String)**

(Required) Authorization token to authenticate to the Qualys Cloud Platform. Prepend token with "Bearer" and one space. For example - Bearer authToken

**Sample**

**Request:**

```
curl -G 
  "Authorization: Bearer <token>"
```

**Response:**

```
{
  "count": 9
}
```