



Custom Assessment and Remediation

API Release Notes

Version 1.6

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Qualys API Server 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 a placeholder API server URL (https://gateway.xxx.eng.xxx.qualys.com) in sample API requests. Please replace this URL with the appropriate server URL for your account.

Fetch More than 10,000 Records Using 'searchAfter'

Earlier, CAR APIs could fetch less than 10,000 (9999 jobs or asset jobs) per page. Starting this release, you can use the 'searchAfter' parameter in order to fetch more than 10,000 records of assets, jobs, and asset jobs.

The following APIs are affected:

API Name	API Path	New or Updated
Fetch jobs by script name or script ID	POST /sm/v2/jobs/search	New
Fetch asset jobs details for a given job name or job ID	POST /sm/v2/assetjobs/search	New
List Assets	POST /sm/v1/assets/search	Updated

For this parameter to function accurately, use the 'sort' parameter to sort assets, script jobs, or asset jobs by using a filter that has unique values such as ID or name. Each asset/job/asset job is returned with an identifier called 'sortValue'. In the subsequent API request, to fetch records beyond the current page size, provide the sortValue of an asset, job, or asset job to the searchAfter parameter to fetch records after the specific ID.

To understand this better, let's consider this example:

You have 15000 jobs in your account. The first API request will only return 9999 jobs. To get jobs beyond 9999, in a subsequent API request, provide the sortValue of the 9999th job in the searchAfter parameter. The second API request will fetch the remaining job starting from the 10000th job.

For better performance, it is recommended that you use smaller page sizes of 1000 to 2000 records.

Sample: Get scripts by specifying value for searchAfter parameter

API Request:

```
curl --location --request POST
'https://gateway.xxx.eng.xxx.qualys.com/sm/v2/jobs/search' \
--header 'Authorization: <Bearer Token> \
--header 'Content-Type: application/json' \
--data-raw '{
  "filter":"script.name:Auto_script_22062022_074300047",
  "sort":[{"created.dateTime":"desc"}, {"id":"desc"}]',
  "pageSize":10,
  "searchAfter":[1673236800800,"25310"]
}'
```

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Request Body:

```
{
  "filter": "script.name:Auto_script_22062022_074300047",
  "sort": "[{\"created.dateTime\":\"desc\"},{\"id\":\"desc\"}]",
  "pageSize": 10,
  "searchAfter": [1673236800800, "25310"]
}
```

Response:

```
{
  "errorCode": null,
  "message": null,
  "body": {
    "totalCount": 70,
    "list": [
      {
        "sortValues": [
          1673222405175,
          "25309"
        ],
        "data": {
          "severity": 1,
          "test": false,
          "created": {
            "dateTime": 1673222405175
          },
          "executionType": "Automated",
          "schedulerId": "<SCHEDULER ID>",
          "correlationUuid": "<CORRELATION RULE ID>",
          "threshold": 250,
          "title": "<SCRIPT NAME>",
          "platform": "WINDOWS",
          "updatedAt": 1673222405175,
          "scriptId": 19218,
          "customerUuid": "<CUSTOMER UUID>",
          "isTest": false,
          "scriptType": "PowerShell",
          "id": "25309",
          "category": {
            "name": "Data Backup",
            "id": 1
          },
          "schedulerName": "<SCHEDULER NAME>"
        }
      }
    ]
  }
}
```

New APIs

CAR 1.6 introduces several new APIs. The following sections contain information on the APIs along with sample API requests and responses.

The API Rate limit is 60 requests per hour if you use API calls for public GitHub repositories (configured without access token) and 5000 per hour for private GitHub repositories (configured with access token). These rate limits are as per the GitHub API documentation.

For more information, refer to [Resources in the REST API](#)

Count number of scripts

APIs affected	/sm/v1/script/count
New or Updated API	New
DTD or XSD changes	Not Applicable

This API lets you fetch the count of scripts created in your subscription.

Input Parameters

Parameter	Mandatory?	Data Type	Description
query	No	string	Search for scripts based on the values as follows: - HasSystemBehaviorAffectingCommands [Boolean]: Get scripts that contain commands that can potentially impact the system behavior or performance of your assets. For example: hasSystemBehaviorAffectingCommands:"True" - importedScriptFromGitHub [Boolean]: Get scripts that are imported from a private or public GitHub repository. For example: importedScriptFromGitHub:"True" - gitHubAutoSync [Boolean]: Get scripts that are configured to be automatically synced with GitHub repository. For example: gitHubAutoSync:"True" - githubSyncStatus [String]: Get scripts based on the pass or fail status of the GitHub sync. For example: gitHubSyncStatus:"failed" - importedFromGitHubPublicRepo [Boolean]: Get scripts that are imported from a public GitHub repository. For example: importedFromGitHubPublicRepo:"true"
startAt/endAt	No	string	Search for scripts by specifying the start/end date and time.
groupBy	No	string	Group scripts by status, asset.operatingSystem, script.name, script.type, and script.category parameters.

Sample 1: Get the total count of scripts on Linux platform

API Request:

```
curl --location --request GET
'https://gateway.xxx.eng.xxx.qualys.com/sm/v1/script/count?query=platform
:LINUX' \
--header 'Authorization: <Bearer Token>
```

Response:

```
{
  "data": {
    "count": 671
  },
  "timestamp": "2023-01-16T04:40:05.284Z"
}
```

Sample 2: Get the total count of scripts by specifying 'groupBy' = severity, with startAt and endAt values

API Request:

```
curl --location --request GET
'https://gateway.xxx.eng.xxx.qualys.com/sm/v1/script/count?groupBy=severi
ty&startAt=2022-11-01T00:00:01.000Z&endAt=2023-01-08T23:59:59.000Z' \

--header 'Authorization: <Bearer Token>
```

Response:

```
{
  "data": {
    "3": 45,
    "1": 27,
    "5": 11,
    "2": 10,
    "4": 3
  },
  "timestamp": "2023-01-16T04:35:45.915Z"
}
```

Count number of jobs

APIs affected	/sm/v1/jobs/count
New or Updated API	New
DTD or XSD changes	Not Applicable

Use this API to fetch the total count of script jobs executed.

Input Parameters

Parameter	Mandatory?	Data Type	Description
query	No	string	Search for jobs based on values as such script ID, script category and so on.
startAt/endAt	No	string	Search for script jobs by specifying the start date/end date.
groupBy	No	string	Group script jobs by status, asset.operatingSystem, script.name, script.type, and script.category parameters.

Sample 1: Get the total count of script jobs with startAt and endAt values

API Request:

```
curl --location --request GET
'https://gateway.xxx.eng.xxx.qualys.com/sm/v1/jobs/count?startAt=2023-01-01T00:00:01.000Z&endAt=2023-01-09T23:59:59.000Z' \
--header 'Authorization: <Bearer Token>
```

Response:

```
{
  "data": {
    "count": 119
  },
  "timestamp": "2023-01-12T05:50:55.598Z"
}
```


Sample 2: Get the total count of script jobs by specifying groupBy=script.category as query parameter

API Request:

```
curl --location --request GET
'https://gateway.xxx.eng.xxx.qualys.com/sm/v1/jobs/count?groupBy=script.c
ategory' \
--header 'Authorization: <Bearer Token>
```

Response:

```
{
  "data": {
    "Data Backup": 86,
    "Remediation": 58,
    "Data Collection": 11,
    "General Automation": 10
  },
  "timestamp": "2023-01-12T05:51:20.157Z"
}
```

Count number of asset jobs

APIs affected	/sm/v1/assetjobs/count
New or Updated API	New
DTD or XSD changes	Not Applicable

Use this API to get the total number of asset jobs executed.

Input Parameters

Parameter	Mandatory?	Data Type	Description
query	No	string	Search for asset jobs based on values as such script name, script type and so on.
startAt/endAt	No	string	Search for asset jobs by specifying the start date/end date.
groupBy	No	string	Group asset jobs by status, asset.operatingSystem, script.name, script.type, and script.category parameters.

Sample 1: Get the total count of asset jobs by using asset.operatingSystem as the query parameter

API Request:

```
curl --location --request GET
'https://gateway.xxx.eng.xxx.qualys.com/sm/v1/assetjobs/count?query=asset
.operatingSystem:WINDOWS' \
--header 'Authorization: <Bearer Token>
```

Response:

```
{
  "data": {
    "count": 202
  },
  "timestamp": "2023-01-12T05:54:03.749Z"
}
```

Sample 2: Get the total count of asset jobs by using groupBy=status as query parameter

API Request:

```
curl --location --request GET
'https://gateway.xxx.eng.xxx.qualys.com/sm/v1/assetjobs/count?groupBy=sta
tus' \
--header 'Authorization: <Bearer Token>
```

Response:

```
{
  "data": {
    "EXECUTION PASSED": 189,
    "SCRIPT_RESULT_UPLOAD_FAILED": 3,
    "SCRIPT_RESULT_UPLOAD_SUCCESS": 2,
    "EXECUTION FAILED": 1,
    "MANIFEST_ASSIGNED": 1
  },
  "timestamp": "2023-01-11T18:05:45.162Z"
}
```

Count number of schedules

APIs affected	sm/v1/scheduler/count
New or Updated API	New
DTD or XSD changes	Not Applicable

This API lets you fetch the count of schedules that have been created.

Input Parameters

Parameter	Mandatory?	Data Type	Description
filter	No	string	Filter requests by providing a query using Qualys syntax. Refer to the “How to Search” topic in the online help for assistance. Some examples are: - name: “Weekly Schedule” - status: ACTIVE - createdBy: “adminuser”
startAt/endAt	No	string	Search for schedules by specifying the start date/end date.
groupBy	No	string	Group schedules by specifying parameters such as scheduler status, agent version, and so on.

Sample 1: Get the total count of schedules by specifying startAt and endAt values

API Request:

```
curl --location --request POST
'https://gateway.xxx.eng.xxx.qualys.com/sm/v1/scheduler/count' \
--header 'Authorization: <Bearer Token>' \
--header 'Content-Type: application/json' \
--data-raw '{
  "startAt": "2022-11-01T00:00:01.000Z",
  "endAt": "2023-01-11T23:59:59.999Z"
}'
```

Request Body:

```
{
  "startAt": "2022-11-01T00:00:01.000Z",
  "endAt": "2023-01-11T23:59:59.999Z"
}
```

Response:

```
{
  "body": {
    "count": 17
  }
}
```

Sample 2: Get the total count of schedules by specifying groupBy=status as query parameter

API Request:

```
curl --location --request POST
'https://gateway.xxx.eng.xxx.qualys.com/sm/v1/scheduler/count' \
--header 'Authorization: <Bearer Token>' \
--header 'Content-Type: application/json' \
--data-raw '{
  "groupBy":["status"]
}'
```

Request Body:

```
{  
  
  "groupBy":["status"]  
  
}
```

Response:

```
{  
  "body": {  
    "ACTIVE": 133,  
    "INACTIVE": 60  
  }  
}
```

Count number of assets

APIs affected	sm/v1/assets/count
New or Updated API	New
DTD or XSD changes	Not Applicable

Use this API to get the total number of assets.

Input Parameters

Parameter	Mandatory?	Data Type	Description
query	No	string	Filter assets by providing a query using Qualys syntax. Refer to the “How to Search” topic in the online help for assistance. For example, “agentVersion:5.0.0.17”
groupBy	No	string	Group results to fetch count based on values such as agentVersion, agentStatus, and so on.

Sample 1: Get asset count by using agentVersion as the query parameter

API Request:

```
curl --location --request GET
'https://gateway.xxx.eng.xxx.qualys.com/sm/v1/assets/count?query=agentVer
sion:5.0.0.17' \
--header 'Authorization: <Bearer Token>
```

Response:

```
{
  "data": {
    "count": 2
  },
  "timestamp": "2023-01-19T11:07:35.006Z"
}
```

Sample 2: Get asset count by using groupBy as the query parameter

API Request:

```
curl --location --request GET
'https://gateway.xxx.eng.xxx.qualys.com/sm/v1/assets/count?groupBy=operat
ingSystem' \
--header 'Authorization: <Bearer Token>
```

Response:

```
{
  "data": {
    "Microsoft Windows 10 Pro 10.0.19044 64-bit N/A Build 19044": 3,
    "CentOS Linux 7.9.2009": 1
  },
  "timestamp": "2023-01-19T11:14:56.324Z"
}
```

Fetch jobs by script name or script ID

APIs affected	/sm/v2/jobs/search
New or Updated API	New
DTD or XSD changes	Not Applicable

Use this API to fetch jobs by specifying the script name or ID.

Input Parameters

Parameter	Mandatory?	Data Type	Description
filter	No	string	Filter the jobs 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 – “scriptId: <SCRIPT_ID>”
startAt/endAt	No	string	Filter script jobs based on the time when the jobs are generated (dateTime) or the time when the jobs are processed at the Qualys platform (processedTime).
pageNumber	No	string	The page to be returned. Starts from zero.
pageSize	No	string	The number of records per page to be included in the response. Default is 10.
sort	No	string	Sort results in ascending or descending order. For example, "sort":[{"name\":"asc\"}]"
searchAfter	No	string	This parameter is required to fetch more than 10,000 rows.

Sample: Get scripts by specifying value for searchAfter parameter

API Request:

```
curl --location --request POST
'https://gateway.xxx.eng.xxx.qualys.com/sm/v2/jobs/search' \
--header 'Authorization: <Bearer Token> \
--header 'Content-Type: application/json' \
--data-raw '{
  "filter":"script.name:Auto_script_22062022_074300047",
  "sort":[{"created.dateTime":"desc"}, {"id":"desc"}]',
  "pageSize":10,
  "searchAfter":[1673236800800,"25310"]
}'
```

Request Body:

```
{
  "filter":"script.name:Auto_script_22062022_074300047",
  "sort":[{"created.dateTime":"desc"}, {"id":"desc"}]',
  "pageSize":10,
  "searchAfter":[1673236800800,"25310"]
}
```

Response:

```
{
  "errorCode": null,
  "message": null,
  "body": {
    "totalCount": 70,
    "list": [
      {
        "sortValues": [
          1673222405175,
          "25309"
        ],
        "data": {
          "severity": 1,
          "test": false,
          "created": {
            "dateTime": 1673222405175
          },
          "executionType": "Automated",
          "schedulerId": "<SCHEDULER ID>",
          "correlationUuid": "<CORRELATION RULE ID>",
          "threshold": 250,
          "title": "<SCRIPT NAME>",
          "platform": "WINDOWS",
          "updatedAtTime": 1673222405175,

```



```
        "scriptId": 19218,
        "customerUuid": "<CUSTOMER UUID>",
        "isTest": false,
        "scriptType": "PowerShell",
        "id": "25309",
        "category": {
            "name": "Data Backup",
            "id": 1
        },
        "schedulerName": "<SCHEDULER NAME>"
    }
}
]
```

Fetch asset jobs details for a given job name or job ID

APIs affected	/sm/v2/assetjobs/search
New or Updated API	New
DTD or XSD changes	Not Applicable

Use this API to fetch asset jobs by specifying the job name or the job ID.

Input Parameters

Parameter	Mandatory?	Data Type	Description
filter	No	string	Filter jobs 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, "job.id:22580"
startAt/endAt	No	string	Filter jobs based on the time when a job is generated (dateTime) or based on the time when a job is processed at Qualys (processedTime).
includeScriptResult	No	string	This flag can be set to 'true' if you want the script output to be fetched in the response. Note: The script result will be fetched in Base 64 encoded format. You must decode it to view the result.
pageNumber	No	string	The page to be returned. Starts from zero.
pageSize	No	string	The number of records per page to be included in the response. Default is 10.
sort	No	string	Sort results in ascending or descending order.
searchAfter	No	string	This parameter is required to fetch more than 10,000 rows.

Sample: Get asset jobs filtered by job ID and searchAfter parameter

API Request:

```
curl --location --request POST
'https://gateway.xxx.eng.xxx.qualys.com/sm/v2/assetjobs/search' \
--header 'Authorization: <Bearer Token>' \
--header 'Content-Type: application/json' \
--data-raw '{
  "filter": "job.id:25389",
  "sort": "[{\"created.dateTime\":\"desc\"}]",
  "searchAfter": ["1673366408146"]
}'
```

Request Body:

```
{
  "filter": "job.id:25389",
  "sort": "[{\\"created.dateTime\\":\\"desc\\"}]",
  "searchAfter":["1673366408146"]
}
```

Response:

```
{
  "errorCode": null,
  "message": null,
  "body": {
    "totalCount": 3,
    "list": [
      {
        "sortValues": [
          1673366408141
        ],
        "data": {
          "test": false,
          "durationInMillis": 3141,
          "created": {
            "dateTime": 1673366408141
          },
          "schedulerId": "<SCHEDULER ID>",
          "executionEndTime": 1673366418141,
          "output": {
            "code": 0,
            "text": "EXECUTION PASSED"
          },
          "customerUuid": "<CUSTOMER UUID>",
          "enddate": "2023-01-10T16:01:04.547+00:00",
          "isTest": false,
          "executionStartTime": 1673366415000,
          "id": "87671",
          "job": {
            "scriptId": <SCRIPT ID>,
            "scriptType": "PowerShell",
            "scriptSeverity": 1,
            "scriptName": "Auto_script_22062022_074300047",
            "correlationUuid": "<CORRELATION RULE UUID>",
            "id": 25389,
            "platform": "WINDOWS",
            "scriptCategory": "Data Backup"
          },
          "asset": {
```

```
        "address": "XX.XXX.XXX.XXX",
        "name": "<ASSET NAME>",
        "id": <ASSET ID>,
        "agentUuid": "<AGENT UUID>",
        "operatingSystem": "Microsoft Windows 10 Pro",
        "tags": [
            {
                "name": "Cloud Agent",
                "tagUuid": "<TAG UUID>",
                "id": 16245104
            }
        ],
        "manifestId": "<MANIFEST ID>",
        "schedulerName": "<SCHEDULER NAME>",
        "status": "EXECUTION PASSED"
    }
}
]
```