



# Qualys CloudView v1.x

## API Release Notes

Version 1.13.0

December 15, 2020

Qualys CloudView API gives you many ways to integrate your programs and API calls with Qualys capabilities. You'll find all the details in our user guides, available at the time of release. Just log in to your Qualys account and go to Help > Resources.

### What's New

[Sort and Filter Support for Connectors List](#)

[Exception Count in Evaluation APIs](#)

### URL to the Qualys API Server

Qualys maintains multiple Qualys platforms. The Qualys API server URL that you should use for API requests depends on the platform where your account is located.

<b>Account Location</b>	<b>API Server URL</b>
Qualys US Platform 1	<a href="https://qualysguard.qualys.com">https://qualysguard.qualys.com</a>
Qualys US Platform 2	<a href="https://qualysguard.qg2.apps.qualys.com">https://qualysguard.qg2.apps.qualys.com</a>
Qualys US Platform 3	<a href="https://qualysguard.qg3.apps.qualys.com">https://qualysguard.qg3.apps.qualys.com</a>
Qualys EU Platform 1	<a href="https://qualysguard.qualys.eu">https://qualysguard.qualys.eu</a>
Qualys EU Platform 2	<a href="https://qualysguard.qg2.apps.qualys.eu">https://qualysguard.qg2.apps.qualys.eu</a>
Qualys India Platform 1	<a href="https://qualysguard.qg1.apps.qualys.in">https://qualysguard.qg1.apps.qualys.in</a>
Qualys Canada Platform	<a href="https://qualysguard.qg1.apps.qualys.ca">https://qualysguard.qg1.apps.qualys.ca</a>
Qualys AE Platform	<a href="https://qualysguard.qg1.apps.qualys.ae">https://qualysguard.qg1.apps.qualys.ae</a>
Qualys Private Cloud Platform	<a href="https://qualysguard.&lt;customer_base_url&gt;">https://qualysguard.&lt;customer_base_url&gt;</a>

The Qualys API documentation and sample code use the API server URL for the Qualys US Platform 1. If your account is located on another platform, please replace this URL with the appropriate server URL for your account.

## Sort and Filter Support for Connectors List

APIs introduced	/rest/v1/aws/connectors /rest/v1/azure/connectors /rest/v1/gcp/connectors
New or Updated APIs	Updated
Operator	GET

You can now simplify connector search results by easily sorting or filtering a specific set of connectors. We now allow to sort the connectors list in ascending or descending order or filter the connectors using a criteria. You can define the criteria using the pre-defined search tokens that we support.

### Input Parameters

Parameter	Description
filter	Filter the connectors list by providing a query using Qualys syntax. The following search tokens are supported. <hr/> name: name of the connector <hr/> description: short description of the connector <hr/> state: state of the connector. The valid values are SUCCESS, PENDING, REGIONS_DISCOVERED, ERROR <hr/> connector.uuid: Unique Id assigned to the connector For example, "6192ce15-e790-3fe2-a02c-b4bc75ecf123" <hr/> lastSyncedOn: date and time when the connector synced with the cloud provider. Note: This time should be in UTC time
sort	Sort the results using a Qualys token. Sorting is currently enabled with only one sort token: lastSyncedOn. The allowed values are asc or desc.

Let us view the API changes in detail.

[Get the list of connectors \(AWS\)](#)

[Get the list of connectors \(Azure\)](#)

[Get the list of connectors \(GCP\)](#)

## Get the list of connectors (AWS)

List all AWS connectors in the user's account. You can sort the connectors or filter the connector list using the new parameters we support.

### Sample - Get the list of all AWS connectors in success state

#### API request:

```
curl -k -X GET -u <username>:<password>
'https://<QualysURL>/cloudview-
api/rest/v1/aws/connectors?filter=state%3DSUCCESS&pageNo=1&pageSize=50&so
rt=lastSyncedOn%3Adesc"
```

#### Response:

```
{
  "content": [
    {
      "name": "test",
      "connectorId": "6192ce15-e790-3fe2-a02c-b4bc75ec1234",
      "description": "sample description",
      "provider": "AWS",
      "state": "SUCCESS",
      "totalAssets": 5484,
      "lastSyncedOn": "Thu Nov 26 07:21:36 UTC 2020",
      "nextSyncedOn": "Thu Nov 26 09:00:41 UTC 2020",
      "remediationEnabled": true,
      "isGovCloud": false,
      "isChinaRegion": false,
      "awsAccountId": "XXXXXXXXXXXX",
      "groups": [
        {
          "name": "group1",
          "uuid": "3ce54f33-81c6-30a2-b160-82e70cd1234"
        }
      ],
      "pollingFrequency": {
        "hours": 7,
        "minutes": 0
      },
      "error": "",
      "baseAccountId": "XXXXXXXXXXXX",
      "externalId": "1598283751234",
      "arn": "arn:aws:iam:XXXXXXXXXXXX:role/test",
      "isPortalConnector": false
    },
    ...
  ],
  "numberOfElements": 2,
  "size": 50,
```

```

    "number": 0
  }

```

## Get the list of connectors (Azure)

List all Azure connectors in the user's account. You can sort the connectors or filter the connector list using the new parameters we support.

### Sample - Get the list of all Azure connectors in success state

#### API request:

```

curl -k -X GET -u <username>:<password>
'https://<QualysURL>/cloudview-
api/rest/v1/azure/connectors?filter=state%3DSUCCESS&pageNo=1&pageSize=50&
sort=lastSyncedOn%3Adesc"

```

#### Response:

```

{
  "content": [
    {
      "name": "test",
      "connectorId": "d56884c8-de42-3d62-a5ea-5d46c2412345",
      "description": "azure connector",
      "provider": "AZURE",
      "state": "SUCCESS",
      "totalAssets": 117,
      "lastSyncedOn": "Thu Nov 26 07:55:26 UTC 2020",
      "nextSyncedOn": "Thu Nov 26 11:55:26 UTC 2020",
      "remediationEnabled": true,
      "isGovCloud": false,
      "applicationId": "d8c3a45a-e6f9-449e-8a54-2416e2d12345",
      "subscriptionId": "1d767489-da0c-4948-a285-bf2c70812345",
      "groups": [],
      "pollingFrequency": {
        "hours": 4,
        "minutes": 0
      },
      "directoryId": "ff4e2413-65ab-4dc2-9e5b-1ea02d312345"
    },
    ...
  ],
  "numberOfElements": 2,
  "size": 50,
  "number": 0
}

```

## Get the list of connectors (GCP)

List all GCP connectors in the user's account. You can sort the connectors or filter the connector list using the new parameters we support.

### Sample - Get the list of all GCP connectors in success state

#### API request:

```
curl -k -X GET -u <username>:<password>
'https://<QualysURL>/cloudview-
api/rest/v1/gcp/connectors?filter=state%3DSUCCESS&pageNo=1&pageSize=50&so
rt=lastSyncedOn%3Adesc"
```

#### Response:

```
{
  "content": [
    {
      "name": "Sample GCP Connector",
      "connectorId": "a7c152e6-2417-3bbf-980d-bfe6f5912345",
      "description": "gcp connector",
      "provider": "GCP",
      "state": "SUCCESS",
      "totalAssets": 67,
      "lastSyncedOn": "Thu Nov 26 07:50:27 UTC 2020",
      "nextSyncedOn": "Thu Nov 26 11:50:27 UTC 2020",
      "projectId": "project1",
      "groups": [],
      "pollingFrequency": {
        "hours": 4,
        "minutes": 0
      }
    },
    ...
  ],
  "numberOfElements": 2,
  "size": 50,
  "number": 0
}
```

## Exception Count in Evaluation APIs

APIs introduced	<code>/rest/v1/aws/evaluations/{accountId}</code> <code>/rest/v1/aws/evaluations/{accountId}/resources/{controlId}</code> <code>/rest/v1/azure/evaluations/{subscriptionId}</code> <code>/rest/v1/azure/evaluations/{subscriptionId}/resources/{controlId}</code> <code>/rest/v1/gcp/evaluations/{projectId}</code> <code>/rest/v1/gcp/evaluations/{projectId}/resources/{controlId}</code>
New or Updated APIs	Updated
Operator	GET

We have now introduced exceptions that allow you to exempt resources that have failed controls evaluations. You may want to create exceptions to exempt certain cloud resources from a particular control or temporarily change the status of a resource for a particular control from Fail to PassE (Pass with Exception).

You can now view count of such evaluations in your API response. Let us view the examples.

[Get the list of evaluations as per the account for AWS Controls](#)

[Get the resources evaluated for the specified AWS account and control id](#)

[Get the list of evaluations as per the subscription for Azure Controls](#)

[Get the resources evaluated for the specified Azure subscription and control id](#)

[Get the list of evaluations per project for GCP controls](#)

[Get the resources evaluated for the specified GCP account and control id](#)

## Get the list of evaluations as per the account for AWS Controls

### API request:

```
curl -k -X GET -u <username>:<password>  
'https://<QualysURL>/cloudview-  
api/rest/v1/aws/evaluations/111111111111?filter=cid%3A67"
```

### Response:

```
{  
  "content": [  
    {  
      "controlName": "Ensure Server Side Encryption (SSE) is enabled for  
S3 bucket",  
      "policyNames": [  
        "AWS Best Practices Policy"  
      ],  
      "criticality": "HIGH",  
      "service": "S3",  
      "result": "FAIL",  
      "controlId": "67",  
      "passedResources": 6,  
      "failedResources": 122,  
      "passWithExceptionResources": 1  
    }  
  ],  
  ...  
  "numberOfElements": 1,  
  "size": 300,  
  "number": 0  
}
```

## Get the resources evaluated for the specified AWS account and control id

### API request:

```
curl -k -X GET -u <username>:<password>  
'https://<QualysURL>/cloudview-  
api/rest/v1/aws/evaluations/111111111111/resources/25?pageNo=0&pageSize=5  
0"
```

### Response:

```
{  
  "content": [  
    {
```



```
{
  "resourceId": "Default",
  "region": "us-east-1",
  "accountId": "111111111111",
  "evaluatedOn": "2020-12-15T06:42:18+0000",
  "evidences": [
    {
      "settingName": "KMS Key ID",
      "actualValue": null
    }
  ],
  "resourceType": "CLOUD_TRAIL",
  "connectorId": "6192ce15-e790-3fe2-a02c-b4bc75ecf199",
  "result": "PASS_WITH_EXCEPTION",
  "evaluationDates": {
    "firstEvaluated": "2020-12-08T02:27:24+0000",
    "lastEvaluated": "2020-12-15T06:42:18+0000",
    "dateReopen": null,
    "dateFixed": "2020-12-10T13:58:47+0000"
  }
},
...
"numberOfElements": 2,
"size": 50,
"number": 0
}
```

## Get the list of evaluations as per the subscription for Azure Controls

### API request:

```
curl -k -X GET -u <username>:<password>
'https://<QualysURL>/cloudview-api/rest/v1/azure/evaluations/11111111-
1111-1111-1111-111111111111?filter=cid%3A50013'
```

### Response:

```
{
  "content": [
    {
      "controlName": "Ensure that default Auditing policy for a SQL Server
is configured to capture and retain the activity logs",
      "policyNames": [
        "CIS Microsoft Azure Foundations Benchmark"
      ],
      "criticality": "HIGH",
      "service": "AZURE_SQL",
      "result": "FAIL",
      "controlId": "50013",
    }
  ]
}
```

```
    "passedResources": 1,  
    "failedResources": 3,  
    "passWithExceptionResources": 1  
  }  
  ...  
  "numberOfElements": 1,  
  "size": 300,  
  "number": 0  
}
```

## Get the resources evaluated for the specified Azure subscription and control id

### API request:

```
curl -k -X GET -u <username>:<password>  
'https://<QualysURL>/cloudview-api/rest/v1/azure/evaluations/11111111-  
1111-1111-1111-111111111111/resources/50013?pageNo=0&pageSize=50"
```

### Response:

```
{  
  "content": [  
    {  
      "resourceId": "dnd-automation-mcheck-pass",  
      "subscriptionId": "11111111-1111-1111-1111-111111111111",  
      "evaluatedOn": "2020-12-15T07:07:24+0000",  
      "evidences": [  
        {  
          "settingName": "Audit State",  
          "actualValue": "Disabled"  
        },  
        {  
          "settingName": "Audit Action Groups",  
          "actualValue":  
            "[\"SUCCESSFUL_DATABASE_AUTHENTICATION_GROUP\", \"FAILED_DATABASE_AUTHENTI  
CATION_GROUP\", \"BATCH_COMPLETED_GROUP\"]"  
        },  
        {  
          "settingName": "Storage Endpoint",  
          "actualValue":  
            "https://dndautocheckstorage.blob.core.windows.net/"  
        },  
        {  
          "settingName": "Retention In Days (0 for retaining logs  
indefinitely)",  
          "actualValue": "91"  
        }  
      ]  
    },  
  ],  
}
```

```
"resourceType": "SQL_SERVER",
"result": "FAIL",
"evaluationDates": {
  "firstEvaluated": null,
  "lastEvaluated": null,
  "dateReopen": null,
  "dateFixed": null
}
},
{
  "resourceId": "dnd-automation-mcheck-fail",
  "subscriptionId": "11111111-1111-1111-1111-111111111111",
  "evaluatedOn": "2020-12-15T07:07:23+0000",
  "evidences": [
    {
      "settingName": "Audit State",
      "actualValue": "Disabled"
    },
    {
      "settingName": "Audit Action Groups",
      "actualValue": "[]"
    },
    {
      "settingName": "Storage Endpoint",
      "actualValue": ""
    },
    {
      "settingName": "Retention In Days (0 for retaining logs indefinitely)",
      "actualValue": "0"
    }
  ],
  "resourceType": "SQL_SERVER",
  "result": "PASS_WITH_EXCEPTION",
  "evaluationDates": {
    "firstEvaluated": null,
    "lastEvaluated": null,
    "dateReopen": null,
    "dateFixed": null
  }
},...
"numberOfElements": 2,
"size": 50,
"number": 0
}
```

## Get the list of evaluations per project for GCP controls

### API request:

```
curl -k -X GET -u <username>:<password>  
'https://<QualysURL>//cloudview-api/rest/v1/gcp/evaluations/my-project-  
111111111111?filter=cid%3A52108"
```

### Response:

```
{  
  "content": [  
    {  
      "controlName": "Ensure that GCP Storage bucket is encrypted using  
customer-managed key",  
      "policyNames": [  
        "GCP Best Practices Policy"  
      ],  
      "criticality": "HIGH",  
      "service": "STORAGE",  
      "result": "FAIL",  
      "controlId": "52108",  
      "passedResources": 1,  
      "failedResources": 24,  
      "passWithExceptionResources": 1  
    }  
  ],  
  ...  
  "numberOfElements": 1,  
  "size": 300,  
  "number": 0  
}
```

## Get the resources evaluated for the specified GCP account and control id

### API request:

```
curl -k -X GET -u <username>:<password>  
'https://<QualysURL>/cloudview-api/rest/v1/gcp/evaluations/my-project-  
111111111111/resources/52027?pageNo=0&pageSize=50"
```

### Response:

```
{  
  "content": [  
    {  
      "resourceId": "my-project-111111111111",  
      "region": "-",  
      "projectId": "my-project-111111111111",  
    }  
  ]  
}
```

```
"evaluatedOn": "2020-12-15T09:15:10+0000",
"evidences": [
  {
    "settingName": "Enable oslogin",
    "actualValue": "False"
  }
],
"resourceType": "PROJECT_COMPUTE",
"result": "PASS_WITH_EXCEPTION"
}
],
...
"numberOfElements": 1,
"size": 50,
"number": 0
}
```