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CloudView APIs

Getting Started with CloudView APIs

Many CloudView features are available through REST APIs. You can use Swagger tool to access the REST APIs we support.

Accessing APIs Using Swagger

Swagger is a widely-adopted specification that allows for programmatically describing REST APIs. The Swagger UI provides all the details about the APIs and how to invoke them. This includes information like the HTTP verbs to use (GET, POST, PUT, etc.), the URL paths, allowable parameters and types, and so on.

You can directly access the Swagger UI from the following URL:

http://<QualysURL>/cloudview-api/swagger-ui.html

For example, if your account is on US Platform 2


Qualys Platforms

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

**Qualys Platform URLs**

- Qualys US Platform 1 - https://qualysguard.qualys.com
- Qualys US Platform 2 - https://qualysguard.qg2.apps.qualys.com
- Qualys EU Platform 1 - https://qualysguard.qualys.eu
- Qualys EU Platform 2 - https://qualysapi.qg2.apps.qualys.eu
- Qualys India Platform 1 - https://qualysguard.qg1.apps.qualys.in
Qualys Canada Platform - https://qualysapi.qg1.apps.qualys.ca

Do I need to Authenticate?

Authentication to the Qualys Cloud Platform is necessary before you try out the APIs.

Simply, click Authorize and provide the user name and password. You can now use the APIs!
AWS APIs

AWS Connector

We support the following operations for AWS Connector.

Get list of connectors
Get the details of a connector
Get the AWS base accountld
Get the AWS Cloud Formation template
Get the list of errors
Create a new connector
Run the provided connector
Update the existing connector
Delete the provided connectors

AWS Evaluations

We support the following control evaluations for AWS resources:

Get the stats for specified control id and resource id
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 list of AWS connectors

/rest/v1/aws/connectors

[GET]

List all AWS connectors in the user’s account.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>pageNo</td>
<td>(integer) The page to be returned.</td>
</tr>
<tr>
<td>pageSize</td>
<td>(integer) The number of records per page to be included in the response.</td>
</tr>
</tbody>
</table>

Sample - Get list of AWS connectors in user’s account

Return the list of all AWS connectors in the user’s scope.

We have added an element named isPortalConnector. The new element is a boolean flag to indicate whether the AWS connector is also created in Portal (Asset View) module or not.

**API request**

curl -k -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/aws/connectors?pageNo=0&pageSize=50'

**Response**

```json
{
  "content": [
    {
      "name": "My_AWS_connector",
      "description": "string_change",
      "isGovCloud": false,
      "isChinaRegion": false,
      "awsAccountId": "XXXXXXXXXXXX"
    }
  ]
}
"state": "SUCCESS",
"totalAssets": 4145,
"groups": [
  {
    "name": "group_1",
    "uuid": "bd8760b4-3fb9-38ef-be9b-7122924bcba3"
  },
  {
    "name": "group_2",
    "uuid": "eb9be4e9-3956-3b38-ad3f-9dbf7d5adbd3"
  },
  {
    "name": "group_3",
    "uuid": "86ec5b07-0a8d-3499-bb9f-43848960e43d"
  }
],
"provider": "AWS",
"connectorId": "1a1b6fb0-5150-11e9-b42c-7b6f80d86320",
"error": "",
"baseAccountId": "XXXXXXXXXXXX",
"externalId": "1558121756190",
"arn": "arn:aws:iam::XXXXXXXXXXXX:role/CloudViewAWS",
"lastSyncedOn": "2019-03-29T11:34:47+0000",
"portalConnectorUuid": "81098071-d848-4e10-9fffd-efccace8312f",
"isPortalConnector": true
],
"pageable": {
  "sort": {
    "sorted": false,
    "unsorted": true
  },
  "pageSize": 50,
  "pageNumber": 0,
  "offset": 0,
  "paged": true,
  "unpaged": false
},
"totalElements": 1,
"last": true,
"totalPages": 1,
"first": true,
"sort": {
  "sorted": false,
  "unsorted": true
},
}
"numberOfElements": 1,
"size": 50,
"number": 0
}
Get Connector Details

/rest/v1/aws/connectors/{connectorId}

[GET]

View details for a connector which is in the user’s scope.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorId</td>
<td>(integer) Specify the unique Id associated with connector in the user’s scope.</td>
</tr>
</tbody>
</table>

Sample - Get details of a specific connectors in user’s account

We have added an element named isPortalConnector. The new element is a boolean flag to indicate whether the AWS connector is also created in Portal (Asset View) module or not.

API request

curl -k -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/aws/connectors/226947d0-569d-11e9-8032-2fa7ed9d9b64'

Response

```json
{
  "name": "My AWS Connector",
  "description": "string_check1",
  "isGovCloud": false,
  "isChinaRegion": false,
  "awsAccountId": "111111111111",
  "state": "SUCCESS",
  "totalAssets": 4234,
  "groups": [
    {
      "name": "group_1",
      "uuid": "bd8760b4-3fb9-38ef-be9b-7122924bcb3"
    }
  ]
}```
{"name": "group_2",
"uuid": "eb9be4e9-3956-3b38-ad3f-9dbf7d5adbd3"
},
{
"name": "group_3",
"uuid": "86ec5b07-0a8d-3499-bb9f-43848960e43d"
}
],
"provider": "AWS",
"connectorId": "226947d0-569d-11e9-8032-2fa7ed9d9b64",
"baseAccountId": "111111111111",
"externalId": "1532740312198",
"arn": "arn:aws:iam::111111111111:role/CloudViewRole",
"lastSyncedOn": "2019-04-17T10:33:59+0000",
"isPortalConnector": false
Get AWS Base Account ID

/rest/v1/aws/connectors/awsBaseAccountId

[GET]

Fetches the AWS base account ID for you.

Sample - Get AWS Base Account ID

Fetches the AWS account ID. If there is a base account associated with your connector, the base account ID is reflected in response. Else, the Qualys account ID is displayed. We have added an element named isPortalConnector. The element is a boolean flag to indicate whether the AWS connector is also created in Portal (Asset View) module or not.

API request

curl -k -X GET -u <username>:<password> 'https://<QualysURL>/rest/v1/aws/connectors/awsBaseAccountID'

Response

{
    "globalAccountId": "XXXXXXXXXXXX",
    "chinaAccountId": "XXXXXXXXXXXXXXX",
    "govAccountId": "XXXXXXXXXXXXXXXXXXXXX",
    "customerGlobalAccount": "false",
    "customerChinaAccount": "false",
    "customerGovAccount": "false"
}
Get Cloud Formation Template

/rest/v1/aws/connectors/aws/download

[GET]

Specify the External Id to be used for generating the AWS cloud formation template and download the template.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>externalId</td>
<td>(integer) External Id to be used for generating the template.</td>
</tr>
</tbody>
</table>

Sample - Download the Cloud Formation Template

**API request**

```bash
curl -k -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/aws/connectors/aws/download?externalId=1532740312198'
```

**Response**

The Response includes a link to download the Cloud Formation Template
Get Error List

/rest/v1/aws/connectors/{connectorId}/errors

[GET]

Get the list of errors encountered when executing connector.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorId</td>
<td>(integer) Specify the unique Id associated with connector in the user’s scope.</td>
</tr>
<tr>
<td>pageNo</td>
<td>(integer) The page to be returned.</td>
</tr>
<tr>
<td>pageSize</td>
<td>(integer) The number of records per page to be included in the response.</td>
</tr>
</tbody>
</table>

Sample -

API request

```bash
curl -k -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/aws/connectors/226947d0-569d-11e9-8032-2fa7ed9d9b64/errors?pageNo=0&pageSize=50'
```

Response

```
{
    "content": [],
    "pageable": {
        "sort": {
            "unsorted": true,
            "sorted": false
        },
        "pageSize": 50,
        "pageNumber": 0,
        "offset": 0,
```

```
"paged": true,
 "unpaged": false
},
"totalElements": 0,
"last": true,
"totalPages": 0,
"first": true,
"sort": {
 "unsorted": true,
 "sorted": false
 },
"numberOfElements": 0,
"size": 50,
"number": 0
}
Create Connector (AWS)

/rest/v1/aws/connectors

[POST]

Specify the connector details such as qualysAccountId, arn, externalId, and so on and create a new connector.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorBody</td>
<td>(body) Specify the connector details such as qualysAccountId, arn, externalId, and so on. Refer to the following example for exact syntax.</td>
</tr>
<tr>
<td></td>
<td>{</td>
</tr>
<tr>
<td></td>
<td>&quot;arn&quot;: &quot;string&quot;,</td>
</tr>
<tr>
<td></td>
<td>&quot;description&quot;: &quot;string&quot;,</td>
</tr>
<tr>
<td></td>
<td>&quot;externalId&quot;: &quot;string&quot;,</td>
</tr>
<tr>
<td></td>
<td>&quot;isChinaRegion&quot;: true,</td>
</tr>
<tr>
<td></td>
<td>&quot;isGovCloud&quot;: false,</td>
</tr>
<tr>
<td></td>
<td>&quot;isPortalConnector&quot;: true,</td>
</tr>
<tr>
<td></td>
<td>&quot;name&quot;: &quot;string&quot;</td>
</tr>
<tr>
<td></td>
<td>}</td>
</tr>
<tr>
<td></td>
<td>Where,</td>
</tr>
<tr>
<td></td>
<td>-arn: Specify the ARN of the cross-account role you created in your AWS account.</td>
</tr>
<tr>
<td></td>
<td>-description: is optional and you can give a short description stating the purpose of the connector you want to create.</td>
</tr>
<tr>
<td></td>
<td>-externalId: Specify the external ID that you have provided in AWS while creating the cross-account role.</td>
</tr>
<tr>
<td></td>
<td>-isChinaRegion (boolean): A flag indicating whether</td>
</tr>
</tbody>
</table>
the Connector also is created China region or not. Set this flag to true to create the connector for China.

-isGovCloud (boolean): A flag indicating whether the Connector also is created GovCloud region or not. Set this flag to true to create the connector for GovCloud.

Note: You can set either isChinaRegion or isGovCloud to true for one connector. If both are set to false, the connector is created for Global region.

-isPortalConnector: (boolean). A flag indicating whether the Connector also is created in Portal module or not (Asset View). If the connector is created in AssetView as well, then the authentication information associated with the connector is linked to CloudView as well. If you update the authentication information for the connector in AssetView, it will automatically reflect in CloudView as well.

-name is the name for the connector you want to create.

Sample - Create a connector in CloudView

Create a connector in the user’s scope. A copy of the same connector is also created in AssetView provided we set "isPortalConnector": true. If the connector already exists in AssetView, then set "isPortalConnector": false.

API request

curl -k -X POST -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/aws/connectors'

Request POST Data

{
  "arn": "arn:aws:iam::205767712438:role/QualysCloudView",
  "description": "string",
  "externalId": "1558121756190",
  "isChinaRegion": false,
  "isGovCloud": false,
  "isPortalConnector": true,
  "name": "My AWS Connector"}
Response
{
    "arn": "arn:aws:iam::XXXXXXXXXXXX:role/QualysCloudView",
    "awsAccountId": "XXXXXXXXXXXX",
    "baseAccountId": "XXXXXXXXXXXX",
    "connectorId": "1a1b6fb0-5150-11e9-b42c-7b8f80d86320",
    "description": "My AWS Connector",
    "error": "string",
    "externalId": "1558121756190",
    "groups": [],
    "isChinaRegion": false,
    "isGovCloud": false,
    "isPortalConnector": true,
    "lastSyncedOn": "2019-03-28T11:53:28+0000",
    "name": "My AWS Connector",
    "portalConnectorUuid": "string",
    "provider": "AWS",
    "state": "PENDING",
    "totalAssets": 0
}

Run Connector

/rest/v1/aws/connectors/run

[POST]

Specify the IDs of the connectors that you want to run.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorRunRequest</td>
<td>(body) Specify the IDs of the connectors that you want to execute/run.</td>
</tr>
</tbody>
</table>

Example:

```json
{
    "awsIds": [
        "string"
    ]
}
```

Sample - Get details of a specific connectors in user's account

**API request**

```bash
curl -k -X POST -u <username>:<password> -d '5f83c570-51e6-11e9-bd82-c173b8d28354]' 'https://<QualysURL>/cloudview-api/rest/v1/aws/connectors/run'
```

**Response**

No Content

Response Code: 204
Update Connector (AWS)

/rest/v1/aws/connectors/{connectorId}

[PUT]

Specify the connector ID and you can then update details of the specified connector.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorId</td>
<td>(integer) Specify the unique Id associated with connector in the user’s scope.</td>
</tr>
<tr>
<td>connectorBody</td>
<td>(body) Specify the connector details such as qualysAccountId, arn, externalId, and so on. Refer to the following example for exact syntax.</td>
</tr>
</tbody>
</table>

```
{
  "arn": "string",
  "description": "string",
  "externalId": "string",
  "isChinaRegion": true,
  "isGovCloud": false,
  "isPortalConnector": true,
  "name": "string"
}
```

Where,

-arn: Specify the ARN of the cross-account role you created in your AWS account.

description is optional and you can give a short description stating the purpose of the connector you want to create.

-externalId: Specify the external ID that you have
CloudView APIs

provided in AWS while creating the cross-account role.

-isChinaRegion (boolean): A flag indicating whether the Connector also is created China region or not. Set this flag to true to create the connector for China.

-isGovCloud (boolean): A flag indicating whether the Connector also is created GovCloud region or not. Set this flag to true to create the connector for GovCloud.

Note: You can set either isChinaRegion or isGovCloud to true for one connector. If both are set to false, the connector is created for Global region.

-isPortalConnector: (boolean). A flag indicating whether the Connector also is created in Portal module or not (Asset View). If the connector is created in AssetView as well, then the authentication information associated with the connector is linked to CloudView as well. If you update the authentication information for the connector in AssetView, it will automatically reflect in CloudView as well.

-name is the name for the connector you want to create.

Sample - Update AWS Connector

Let us consider an example to update the description of the connector.

API request

```
curl -k -X POST -u <username>:<password> 'https://<QualysURL>/rest/v1/aws/connectors/{connectorId}'
```

Request POST Data

```
{
    "arn": "arn:aws:iam::XXXXXXXXXXXX:role/CloudViewARNrole",
    "description": "string_change",
    "externalId": "1558121756190",
    "isChinaRegion": false,
    "isGovCloud": false,
```
"isPortalConnector": false,
"name": "My updated AWS Connector"
}

Response
{
  "arn": "arn:aws:iam::XXXXXXXXXXXXX:role/QualysCloudViewRole",
  "awsAccountId": "XXXXXXXXXXXXX",
  "baseAccountId": "XXXXXXXXXXXXX",
  "connectorId": "1a1b6fb0-5150-11e9-b42c-7b8f80d86320",
  "description": "My updated AWS Connector",
  "error": "string",
  "externalId": "1558121756190",
  "groups": [ 
    { "name": "string",
      "uuid": "string"
    }
  ],
  "isChinaRegion": false,
  "isGovCloud": false,
  "isPortalConnector": false,
  "lastSyncedOn": "2019-03-28T11:53:28+0000",
  "name": "My updated AWS Connector",
  "portalConnectorUuid": "string",
  "provider": "AWS",
  "state": "PENDING",
  "totalAssets": 0
}
Delete Connector (AWS)

/rest/v1/aws/connectors

[DELETE]

Delete the specified connector which is in the user’s scope.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorId</td>
<td>(integer) Specify the unique Id associated with connector in the user’s scope.</td>
</tr>
</tbody>
</table>

Sample - Get details of a specific connectors in user’s account

**API request**

```
curl -X DELETE -u <username>:<password> ' -d '77a51d30-14d4-12e9-aae4-31d950d53bd8' 'https://qualysapi.qualys.com/cloudview-api/rest/v1/aws/connectors'
```

**Response**

No Content
Response Code: 204
AWS Evaluations

Get the stats for specified control id and resource id

/rest/v1/aws/evaluations/stats/{controlId}/{resourceId}/{connectorId}

[GET]

Specify the details such as control ID, resource ID, and connector ID to get the statistics for specified control and resource ID.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>controlId</td>
<td>(string) Specify the control ID of a control for which resources evaluated need to be fetched.</td>
</tr>
<tr>
<td>resourceId</td>
<td>(string) Specify the unique ID of the resource being evaluated.</td>
</tr>
<tr>
<td>connectorId</td>
<td>(string) Specify the unique Id associated with the connector in the user’s scope.</td>
</tr>
</tbody>
</table>

Sample - Get the statistics for a specified control and resource

API request

curl -k -X GET -u <username>:<password>
'https://<QualysURL>/cloudview-api/rest/v1/aws/evaluations/stats/48/bizappsbucket/4589d050-3b21-11e9-9fd1-33f93691751d'

Response

{
"firstEvaluated": "2019-03-07T09:48:13+0000",
"lastEvaluated": "2019-03-26T08:17:06+0000",
"dateReopen": "2019-03-25T08:57:17+0000",
"dateFixed": "2019-03-25T08:51:45+0000"
}
Get the list of evaluations as per the account for AWS Controls

/rest/v1/aws/evaluations/{accountId}

[GET]

Specify the details such as control ID, resource ID, and connector ID to get the statistics for specified control and resource ID.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>accountId</td>
<td>(string) Specify the unique Id associated with your AWS account.</td>
</tr>
<tr>
<td>filter</td>
<td>Filter the resources list by providing a query using Qualys syntax. If you do not add a date filter, by default the data for last 7 days is included in the response. If you need data for specific date or date range, form your filter query using evaluatedOn token. Examples: Show resources discovered within certain dates evaluatedOn: [2019-01-01 ... 2019-03-01] Show resources updated starting 2019-01-01, ending 1 month ago evaluatedOn: [2019-01-01 ... now-1m] Show resources updated starting 2 weeks ago, ending 1 second ago evaluatedOn: [now-2w ... now-1s] Show resources discovered on specific date evaluatedOn: 2019-01-08</td>
</tr>
</tbody>
</table>
Sample - Get the list of evaluations as per the account for AWS Controls

API request

```bash
curl -k -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/aws/evaluations/888888888888'
```

Response

```json
{
   "content": [
      {
         "controlName": "Ensure multi-factor authentication (MFA) is enabled for all IAM users that have a console password",
         "policyName": "CIS Amazon Web Services Foundations Benchmark",
         "criticality": "HIGH",
         "service": "IAM",
         "result": "FAIL",
         "controlId": "1",
         "passedResources": 6,
         "failedResources": 32
      },
      {
         "controlName": "Ensure console credentials unused for 90 days or greater are disabled",
         "policyName": "CIS Amazon Web Services Foundations Benchmark",
         "criticality": "HIGH",
         "service": "IAM",
         "result": "FAIL",
         "controlId": "2",
         "passedResources": 8,
         "failedResources": 30
      },
      ...
      {
         "controlName": "Ensure that all the expired SSL/TLS certificates stored in AWS IAM are removed",
         "policyName": "AWS Best Practices Policy",
         "criticality": "HIGH",
         "service": "IAM",
         "result": "FAIL",
         "controlId": "68",
         "passedResources": 1,
         "failedResources": 3
      }
   ]
}
```
Get the resources evaluated for the specified AWS account and control ID

/rest/v1/aws/evaluations/{accountId}/resources/{controlId}

[GET]

Specify the details such as account ID, resource ID, and connector ID to get the statistics for specified control and resource ID.

**Input Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>accountID</td>
<td>(string) Specify the unique ID associated with your AWS account.</td>
</tr>
<tr>
<td>controlId</td>
<td>(string) Specify the control ID of a control for which resources evaluated need to be fetched.</td>
</tr>
<tr>
<td>filter</td>
<td>Filter the resources list by providing a query using Qualys syntax. If you do not add a date filter, by default the data for last 7 days is included in the response. If you need data for specific date or date range, form your filter query using evaluatedOn token.</td>
</tr>
</tbody>
</table>

Examples:

Show resources discovered within certain dates
evaluatedOn: [2019-01-01 ... 2019-03-01]

Show resources updated starting 2019-01-01, ending 1 month ago
evaluatedOn: [2019-01-01 ... now-1m]

Show resources updated starting 2 weeks ago, ending 1 second ago
evaluatedOn: [now-2w ... now-1s]

Show resources discovered on specific date
evaluatedOn: 2019-01-08

**PageNo**  
(integer) The page to be returned.

**PageSize**  
(integer) The number of records per page to be included in the response.

---

**Sample - Get all or filter the evaluations for your account**

**API request**


**Response**

```json
{
  "content": [{
    "resourceId": "sample_resource",
    "region": "us-east-1",
    "accountId": "1111111111111",
    "evaluatedOn": "2019-04-17T02:40:27+0000",
    "evidences": [{
      "settingName": "Credential Report Generated Time",
      "actualValue": "Tue Apr 16 00:24:25 UTC 2019"
    },
    {"settingName": "MFA Status",
    "actualValue": "Not Enabled"
    },
    {"settingName": "Console Password Status",
    "actualValue": "Enabled"
    }],
    "resourceType": "IAM_USER",
    "connectorId": "226947d0-569d-11e9-8032-2fa7ed9d9b64",
    "result": "FAIL",
    "evaluationDates":{

```
"firstEvaluated": "2019-04-05T08:13:13+0000",
"lastEvaluated": "2019-04-17T02:40:27+0000",
"dateReopen": null,
"dateFixed": null
}
},
{
...
],
"pageable": {
"sort": {
  "unsorted": true,
  "sorted": false
},
"pageSize": 2,
"pageNumber": 0,
"offset": 0,
"paged": true,
"unpaged": false
},
"totalElements": 23,
"last": false,
"totalPages": 12,
"first": true,
"sort": {
  "unsorted": true,
  "sorted": false
},
"numberOfElements": 2,
"size": 2,
"number": 0
}
Azure APIs

Azure Connector

We support the following operations for Azure Connector.

Get list of connectors
Get the details of a connector
Create a new connector
Run the provided connector
Update the existing connector
Delete the provided connectors

Azure Evaluations

We support the following control evaluations for Azure resources:

Get the statistics for specified control and resource
Get the list of evaluations as per account for Azure controls
Get the resources evaluated for specified Azure account Id and control Id
Get Azure Connectors

/rest/v1/azure/connectors

[GET]

List all Azure connectors in the user’s account.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>pageNo</td>
<td>(integer) The page to be returned.</td>
</tr>
<tr>
<td>pageSize</td>
<td>(integer) The number of records per page to be included in the response.</td>
</tr>
</tbody>
</table>

Sample - Get list of connectors in user's account

Return the list of all connectors in the user’s scope.

API request

```bash
```

Response

```json
{
    "content": [ 
        {
            "name": "My Azure Connector",
            "description": "sample-description",
            "isGovCloud": true,
            "state": "REGIONS_DISCOVERED",
            "totalAssets": 244,
            "applicationId": "f076c321-694d-4929-ae0b-d2bd14d1a4d7",
            "subscriptionId": "XXXXXXXX-XXX-XXXX-XXXX-XXXXXXXXXXXXX",
            "groups": []
        }
    ]
}
```
"provider": "AZURE",
"connectorId": "5926c280-c587-11e9-9230-31a5d0c73f76",
"lastSyncedOn": "2019-09-12T05:33:01+0000",
"directoryId": "ff4e2413-65ab-4dc2-9e5b-1ea02d3d94eb"
},
{
"name": "My Second Azure Connector",
"description": "sample_description",
"isGovCloud": true,
"state": "SUCCESS",
"totalAssets": 69,
"applicationId": "d8c3a45a-e6f9-449e-8a54-2416e2d61aec",
"subscriptionId": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXXXX",
"groups": [
{
"name": "test_group",
"uuid": "ce7c0d23-af60-320f-b8cb-f6b51b2fb8a5"
},
{
"name": "sample_group",
"uuid": "745aca99-6ab6-3e1d-8e65-7b4febc0005e"
}
],
"provider": "AZURE",
"connectorId": "2e0c1660-d061-11e9-ad71-df4fba75b3c5",
"lastSyncedOn": "2019-09-12T05:56:01+0000",
"directoryId": "ff4e2413-65ab-4dc2-9e5b-1ea02d3d94eb"
}
],
"pageable": {
"sort": {
  "unsorted": true,
  "sorted": false
},
"pageSize": 50,
"pageNumber": 0,
"offset": 0,
"unpaged": false,
"paged": true
},
"totalElements": 2,
"last": true,
"totalPages": 1,
"first": true,
"sort": {
  "unsorted": true,
Get Connector Details (Azure)

/rest/v1/azure/connectors/{connectorId}

[GET]

View details for a specific Azure connector which is in the user’s scope.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorId</td>
<td>(string) Specify the unique Id associated with connector in the user’s scope.</td>
</tr>
</tbody>
</table>

Sample - Get details of a specific Azure connector in user’s account

**API request**

```
curl -X GET --header 'Accept: application/json' --header 'Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQK==' 'https://qualysapi.qualys.com/cloudview-api/rest/v1/azure/connectors/2e0c1660-d061-11e9-ad71-df4fba75b3c5'
```

**Response**

```json
{
    "name": "My GovCloud Azure Connector",
    "description": "sample_description",
    "isGovCloud": true,
    "state": "SUCCESS",
    "totalAssets": 69,
    "applicationId": "d8c3a45a-e6f9-449e-8a54-2416e2d61aec",
    "subscriptionId": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX",
    "groups": [
        {
            "name": "sample_group",
            "uuid": "745aca99-6ab6-3e1d-8e65-7b4febc0005e"
        },
        {
            "name": "azure2",
```
"uuid": "ce7c0d23-af60-320f-b8cb-f6b51b2fb8a5"

},
"provider": "AZURE",
"connectorId": "2e0c1660-d061-11e9-ad71-df4fba75b3c5",
"lastSyncedOn": "2019-09-12T05:56:01+0000",
"directoryId": "ff4e2413-65ab-4dc2-9e5b-1ea02d3d94eb"}
Create Connector (Azure)

/rest/v1/azure/connectors

[POST]

Specify the connector details such as application Id, authenticationKey, description, directoryId, name, and subscription Id of your Azure account and create a new connector.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorBody</td>
<td>(body) Specify the connector details such as qualysAccountId, arn, externalId, and so on. Refer to the following example for exact syntax.</td>
</tr>
</tbody>
</table>

```json
{
    "applicationId": "string",
    "authenticationKey": "string",
    "description": "string",
    "directoryId": "string",
    "isGovCloud": false,
    "name": "string",
    "subscriptionId": "string"
}
```

Where,

- applicationId: Unique identifier of the application you create on Azure portal.

- authenticationKey: The secret key generated after you provide permission to the application to access the Windows Azure Service.

- description is optional and you can give a short description stating the purpose of the connector you
want to create.

- `directoryId`: Unique identifier of your Azure Active Directory.

- `isGovCloud` (boolean): A flag indicating whether the Connector also is created GovCloud region or not. Set this flag to true to create the connector for GovCloud.

- `name`: is the name for the connector you want to create.

- `subscriptionId`: Unique identifier of your Microsoft Azure subscription.

Sample - Create a Azure Connector

**API request**

```
curl -k -X POST -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/azure/connectors'
```

**Request POST Data**

```
{
    "applicationId": "d8c3a66a-e6f9-449e-8a54-2416e2d61aec",
    "authenticationKey": "XXXXXXXXXXXXXXX",
    "description": "This is test description",
    "directoryId": "ff4e2442-65ab-4dc2-9e5b-1ea02d3d94eb",
    "isGovCloud": true,
    "name": "My Azure Connector",
    "subscriptionId": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXXX"
}
```

**Response**

```
{
    "applicationId": "d8c3a66a-e6f9-449e-8a54-2416e2d61aec",
    "connectorId": "674292e0-5223-11e9-be90-4dfe52eda963",
    "description": "This is test description",
    "directoryId": "ff4e2442-65ab-4dc2-9e5b-1ea02d3d94eb",
    "error": "string",
    "groups": [],
    "isGovCloud": true,
}
"lastSyncedOn": "2019-03-29T01:06:23+0000",
"name": "My Azure Connector",
"provider": "AZURE",
"state": "PENDING",
"subscriptionId": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXXXX",
"totalAssets": 0
Run Connector (Azure)

/rest/v1/azure/connectors/run

[POST]

Specify the IDs of the connectors that you want to run.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorRunRequest</td>
<td>(Array[string]) Specify the IDs of the connector that you want to execute/run. Example: [&quot;67a51d30-14d4-12e9-aae4-31d950d53bd7&quot;]</td>
</tr>
</tbody>
</table>

Sample - Get details of a specific connectors in user’s account

**API request**

curl -k -X GET -u <username>:<password> -d ’["67a51d30-14d4-12e9-aae4-31d950d53bd8"]’
'https://<QualysURL>/cloudview-api/rest/v1/azure/connectors

**Response**

No Content
Response Code: 204
Update Connector (Azure)

/rest/v1/azure/connectors/{connectorId}

[PUT]

Specify the connector ID and the details of the connector that you would want to update in the connectorBody parameter. Your connector details get updated.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorId</td>
<td>(string) Specify the unique Id associated with connector in the user’s scope.</td>
</tr>
<tr>
<td>connectorBody</td>
<td>(body) Specify only those connector details that you want to update. Refer to the following example for syntax.</td>
</tr>
</tbody>
</table>

```json
{
  "applicationId": "string",
  "authenticationKey": "string",
  "description": "string",
  "directoryId": "string",
  "isGovCloud": true,
  "name": "string",
}
```

Where,

- applicationId: Unique identifier of the application you create on Azure portal.

- authenticationKey: The secret key generated after you provide permission to the application to access the Windows Azure Service.

- description is optional and you can give a short
description stating the purpose of the connector you want to create.

-directoryId: Unique identifier of your Azure Active Directory.

-isGovCloud (boolean): A flag indicating whether the Connector also is created GovCloud region or not. Set this flag to true to create the connector for GovCloud.

-name is the name for the connector you want to update.

Sample - Update Azure Connector

Update connector in the user’s scope.

**API request**

curl -k -X GET -u <username>:<password>
{
    "applicationId": "d8c3a66a-e6f9-449e-8a54-2416e2d61aec",
    "authenticationKey": "XXXXXXXXXXXXXXXX",
    "description": "Test description updated",
    "directoryId": "ff4e2442-65ab-4dc2-9e5b-1ea02d3d94eb",
    "isGovCloud": true,
    "name": "My Azure Connector",
}
'https://<QualysURL>/cloudview-api/rest/v1/azure/connectors/7d80a840-40b6-11e9-9078-111111111111'

**Response**

{
    "name": "My Azure Connector",
    "description": "Test description updated",
    "isGovCloud": false,
    "state": "PENDING",
    "totalAssets": 0,
    "applicationId": "d8c3a45a-e6f9-449e-8a54-2416e2d61aec",
    "subscriptionId": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXXXXX",
    "groups": [],
    "provider": "AZURE",
    "connectorId": "7d80a840-40b6-11e9-9078-111111111111"
"lastSyncedOn": "2019-09-23T17:58:20+0000",
"directoryId": "ff4e2413-65ab-4dc2-9e5b-1ea02d3d94eb"
}

CloudView APIs
Delete Connector

/rest/v1/azure/connectors

[DELETE]

Delete the specified connector which is in the user’s scope.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorId</td>
<td>(Array[string]) Specify the unique Id associated with connector in the user’s scope.</td>
</tr>
<tr>
<td>Example</td>
<td>&quot;67a51d30-14d4-12e9-aae4-31d950d53bd7&quot;</td>
</tr>
</tbody>
</table>

Sample - Delete AWS Connector

API request

```
curl -k -X DELETE -u <username>:<password> -d '["215947d0-569d-11e9-8032-2fa7ed9d9b64"]' 'https://<QualysURL>/cloudview-api/rest/v1/aws/connectors'
```

Response

No Content
Response Code: 204
Azure Evaluations

Get the stats for specified control id and resource id

/rest/v1/azure/evaluations/stats/{controlId}/{resourceId}/{connectorId}

[GET]

Specify the details such as control ID, resource ID, and connector ID to get the statistics for specified control and resource ID.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>controlId</td>
<td>(string) Specify the control ID of a control for which resources evaluated need to be fetched</td>
</tr>
<tr>
<td>resourceId</td>
<td>(string) Specify the unique ID of the resource being evaluated.</td>
</tr>
<tr>
<td>connectorId</td>
<td>(string) Specify the unique Id associated with the connector in the user’s scope.</td>
</tr>
</tbody>
</table>

Sample - Get list of connectors in user's account

Return the list of all connectors in the user’s scope.

API request

curl -k -X GET -u <username>:<password> 
'https://<QualysURL>/cloudview-api/rest/v1/azure/evaluations/stats/50035/assertion_USPOD02-vnet/742a20d0-4032-22e9-a677-053d7c82d8a3'

Response

{
   "firstEvaluated": "2019-03-08T23:01:10+0000",
   "lastEvaluated": "2019-03-22T12:07:05+0000",
   "dateReopen": "2019-03-25T08:57:17+0000",}
"dateFixed": "2019-03-25T08:51:45+0000"
Get the list of evaluations as per the account for Azure Controls

/rest/v1/azure/evaluations/{subscriptionId}

[GET]

Specify the details such as control ID, resource ID, and connector ID to get the statistics for specified control and resource ID.

**Input Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>subscriptionId</td>
<td>(string) Specify the unique Id associated with your Azure subscription.</td>
</tr>
<tr>
<td>filter</td>
<td>Filter the resources list by providing a query using Qualys syntax.</td>
</tr>
</tbody>
</table>

If you do not add a date filter, by default the data for last 7 days is included in the response. If you need data for specific date or date range, form your filter query using evaluatedOn token.

**Examples:**

Show resources discovered within certain dates
evaluatedOn: [2019-01-01 ... 2019-03-01]

Show resources updated starting 2019-01-01, ending 1 month ago
evaluatedOn: [2019-01-01 ... now-1m]

Show resources updated starting 2 weeks ago, ending 1 second ago
evaluatedOn: [now-2w ... now-1s]

Show resources discovered on specific date
evaluatedOn: 2019-01-08
Sample - Get all or filter the evaluations for your account

**API request**

```
```

**Response**

```
{
    "content": [
        {
            "controlName": "Ensure that Adaptive Application Controls is set to On",
            "policyName": "CIS Microsoft Azure Foundations Benchmark",
            "criticality": "HIGH",
            "service": "SECURITY_CENTER",
            "result": "PASS",
            "controlId": "50003",
            "passedResources": 1,
            "failedResources": 0
        },
        ...
    ],
    "pageable": {
        "sort": {
            "unsorted": true,
            "sorted": false
        },
        "pageSize": 100,
        "pageNumber": 0,
        "offset": 0,
        "unpaged": false,
        "paged": true
    },
    "totalElements": 16,
    "totalPages": 1,
    "last": true,
    "first": true,
    "sort": {
        "unsorted": true,
        "sorted": false
    },
    "numberOfElements": 16,
    "size": 100,
    "number": 0
}
```
CloudView APIs
Get the resources evaluated for the specified Azure account and control id
/rest/v1/azure/evaluations/{subscriptionId}/resources/{controlId}

[GET]

Specify the details such as control ID, resource ID, and connector ID to get the statistics for specified control and resource ID.

**Input Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>controlId</td>
<td>(string) Specify the control ID of a control for which resources evaluated need to be fetched</td>
</tr>
<tr>
<td>resourceId</td>
<td>(string) Specify the unique ID of the resource being evaluated.</td>
</tr>
<tr>
<td>connectorId</td>
<td>(string) Specify the unique Id associated with the connector in the user’s scope.</td>
</tr>
<tr>
<td>pageNo</td>
<td>(integer) The page to be returned.</td>
</tr>
<tr>
<td>pageSize</td>
<td>(integer) The number of records per page to be included in the response.</td>
</tr>
</tbody>
</table>

**Sample - Get all or filter the evaluations for your account**

**API request**

curl -X GET --header 'Accept: application/json' --header 'Authorization: Basic dXNlc3Nm5hbWU6cGFzc3dvcmQK=='

**Response**

```json
{
  "content": [
```
"resourceId": "TestResource",
"subscriptionId": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXXXX",
"evaluatedOn": "2019-03-22T11:06:07+0000",
"evidences": [
{
   "settingName": "Data Encryption",
   "actualValue": "On",
   "expectedValue": ""
}
],
"resourceType": "SQL_SERVER_DATABASE",
"result": "PASS",
"evaluationDates": {
   "firstEvaluated": "2019-03-13T15:02:07+0000",
   "lastEvaluated": "2019-03-22T11:06:07+0000",
   "dateReopen": null,
   "dateFixed": null
}
},
{
   "resourceId": "dnd-automation-mcheck-pass",
   "subscriptionId": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXXXX",
   "evaluatedOn": "2019-03-22T11:06:08+0000",
   "evidences": [
{
   "settingName": "Data Encryption",
   "actualValue": "On",
   "expectedValue": ""
}
],
"resourceType": "SQL_SERVER_DATABASE",
"result": "PASS",
"evaluationDates": {
   "firstEvaluated": "2019-03-13T15:02:09+0000",
   "lastEvaluated": "2019-03-22T11:06:08+0000",
   "dateReopen": null,
   "dateFixed": null
}
}]
,"pageable": {
   "sort": {
      "unsorted": true,
      "sorted": false
   },
   "pageSize": 50,
"pageNumber": 0,
"offset": 0,
"unpaged": false,
"paged": true
},
"totalElements": 2,
"totalPages": 1,
"last": true,
"first": true,
"sort": {
    "unsorted": true,
    "sorted": false
},
"numberOfElements": 2,
"size": 50,
"number": 0
GCP APIs

GCP Connector

We support the following operations for GCP Connector.

Get list of connectors
Get the details of a connector
Create a new connector
Run the provided connector
Update the existing connector
Delete the provided connectors

GCP Evaluations

We support the following control evaluations for GCP resources

Get the stats for specified control id and resource id
Get the list of evaluations per account for GCP controls
Get the resources evaluated for the specified GCP account and control id
Get GCP Connectors

/rest/v1/gcp/connectors

[GET]

List all GCP connectors in the user’s account.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>pageNo</td>
<td>(integer) The page to be returned.</td>
</tr>
<tr>
<td>pageSize</td>
<td>(integer) The number of records per page to be included in the response.</td>
</tr>
</tbody>
</table>

Sample - Get list of GCP connectors in user’s account

Return the list of all GCP connectors in the user’s scope.

**API request**

curl -k -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/gcp/connectors?pageNo=0&pageSize=50'

**Response**

```json
{
    "content": [
        {
            "name": "GCP Connector 1",
            "description": "Test GCP Connector",
            "state": "SUCCESS",
            "totalAssets": 24,
            "projectId": "XXXXXXX-XXXXXX-XXXXXX",
            "groups": [
                {
                    "name": "GCPGroup",
                    "uuid": "e1d1c379-0a79-3153-be99-05132a775e3d"
                }
            ]
        }
    ]
}
```


```
{  
  "name": "Sample_group",
  "uuid": "86ec5b07-0a8d-3499-bb9f-43848960e43d"
},
{  
  "name": "Example_group",
  "uuid": "52660405-27d3-3f69-b764-b0061ab4c494"
},
{  
  "name": "GCP_sample",
  "uuid": "b3e9036d-b546-30d4-99fb-cb64b15effffffa"
}  
"provider": "GCP",
"connectorId": "1111a111-1111-11a1-a1a1-1aa1a1111111",
"lastSyncedOn": "2019-03-22T05:53:05+0000"
},
{  
  "name": "GCP Connector 2",
  "description": "This is for test purposes",
  "state": "SUCCESS",
  "totalAssets": 115,
  "projectId": "XXXXXXX-XXXXXX-XXXXXX",
  "groups": [
    {  
      "name": "Sample_group",
      "uuid": "ea4b240f-c27c-30a6-ba28-8fc9a38fa8d1"
    },
    {  
      "name": "GCP_group",
      "uuid": "424042b9-16e8-3410-bfd1-86308d74638c"
    },
    {  
      "name": "Sample_GCP",
      "uuid": "6d515841-a02d-34d0-bab3-a83c4e18b3c3"
    }
  ],
  "provider": "GCP",
  "connectorId": "1111b111-1111-11b1-1bb1-1b1b1111111",
  "lastSyncedOn": "2019-03-22T06:29:05+0000"
}
```

"pageable": {
"sort": {
  "unsorted": true,
  "sorted": false
}}
CloudView APIs

{,
  "pageSize": 50,
  "pageNumber": 0,
  "offset": 0,
  "paged": true,
  "unpaged": false
},
"totalElements": 2,
"last": true,
"totalPages": 1,
"first": true,
"sort": {
  "unsorted": true,
  "sorted": false
},
"numberOfElements": 2,
"size": 50,
"number": 0
}
Get GCP Connector Details

/rest/v1/gcp/connectors/{connectorId}

[GET]

View details for a specific GCP connector which is in the user’s scope.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorId</td>
<td>(string) Specify the unique Id associated with connector in the user’s scope.</td>
</tr>
</tbody>
</table>

Sample - Get details of a specific GCP connector in user’s account

API request

curl -k -X GET -u <username>:<password>
'https://<QualysURL>/cloudview-api/rest/v1/gcp/connectors/1111a111-1111-11a1-a1a1-1aa1a1111111'

Response

```json
{
   "name": "GCP Connector",
   "description": "Get connector details",
   "state": "SUCCESS",
   "totalAssets": 115,
   "projectId": "my-project-1524669048661",
   "groups": [
      {
         "name": "Sample_group",
         "uuid": "ea4b240f-c27c-30a6-ba28-8fc9a38fa8d1"
      },
      "provider": "GCP",
      "connectorId": "1111a111-1111-11a1-a1a1-1aa1a1111111",
      "lastSyncedOn": "2019-03-22T08:43:09+0000"
   }
}```
Create GCP Connector

/rest/v1/gcp/connectors

[POST]

Specify the connector details such as name, description and upload the configuration (JSON) file and create a new connector.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of the connector</td>
</tr>
<tr>
<td>description</td>
<td>Description of the connector</td>
</tr>
<tr>
<td>configFile</td>
<td>Provide the configuration file.</td>
</tr>
</tbody>
</table>

Sample - Create a new GCP Connector

API request

```
curl -k -X POST -d <username>:<password> 'Content-Type: multipart/form-data' --header 'Accept: application/json' -F name=My%20GCP%20Connector -F description=My%20GCP%20Connector 'https://<QualysURL>/cloudview-api/rest/v1/gcp/connectors'
```

Note: Upload the configuration file required for GCP connector creation.

Response

```
{
  "name": "My GCP Connector",
  "description": "My GCP Connector",
  "state": "PENDING",
  "totalAssets": 0,
  "projectId": "my-project-1111111111111",
  "provider": "GCP",
}
"connectorId": "1111a111-1111-11a1-a1a1-1aa1a1111111",
"lastSyncedOn": "2019-03-28T10:14:14+0000"
Run Connector (GCP)

/rest/v1/gcp/connectors/run

[POST]

Specify the connector details and run the specified GCP connector.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorRunRequest</td>
<td>(Array [string]) Specify the unique Id associated with connector in the user's scope.</td>
</tr>
</tbody>
</table>

Sample - Run the specified GCP connector

**API request**

```
curl -k -X POST -d <username>:<password> -d "['1111a111-1111-11a1-a1a1-1aa1a1111111']"
'https://<QualysURL>/cloudview-api/rest/v1/gcp/connectors/run'
```

**Response**

No Content
Response Code: 204
Update Connector (GCP)

/rest/v1/gcp/connectors/{connectorId}

[PUT]

Specify the connector ID and the details to be updated to update details of the specified connector.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorId</td>
<td>(integer) Specify the unique Id associated with connector in the user’s scope.</td>
</tr>
<tr>
<td>name</td>
<td>Name of the connector</td>
</tr>
<tr>
<td>description</td>
<td>Description of the connector</td>
</tr>
<tr>
<td>configFile</td>
<td>Provide the configuration file.</td>
</tr>
</tbody>
</table>

Sample - Update the GCP connector

You can update either one or multiple elements of the GCP connector.

API request

curl -k -X PUT -u <username>:<password> -F name=Change_name_GCP -F 'https://<QualysURL/cloudview-api/rest/v1/gcp/connectors/1f325070-5152-11e9-8cf3-e3dcac181204'

Response

```json
{
    "name": "Change_name_GCP",
    "description": "Test description",
    "state": "PENDING",
    "totalAssets": 0,
    "projectId": "my-project-1111111111111",
}
"provider": "GCP",
"connectorId": "1f325070-5152-11e9-8cf3-e3dcac181204",
"lastSyncedOn": "2019-03-28T12:09:36+0000"}
Delete Connector (GCP)

/rest/v1/gcp/connectors

[DELETE]

Delete the specified connector which is in the user’s scope.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorId</td>
<td>(Array [string]) Specify the unique Id associated with connector in the user’s scope.</td>
</tr>
</tbody>
</table>

Sample - Get details of a specific connectors in user’s account

**API request**

```bash
curl -k -X DELETE -u <username>:<password> 
-d '["1d767489-da0c-4948-a285-bf2c708c0585"]'  
'https://<QualysURL>/cloudview-api/rest/v1/gcp/connectors'
```

**Response**

No Content
Response Code: 204
GCP Evaluations

Get the stats for specified control id and resource id

/rest/v1/gcp/evaluations/stats/{controlId}/{resourceId}/{connectorId}

[GET]

Specify the details such as control ID, resource ID, and connector ID to get the statistics for specified control and resource ID.

**Input Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>controlId</td>
<td>(string) Specify the control ID of a control for which resources evaluated need to be fetched</td>
</tr>
<tr>
<td>resourceId</td>
<td>(string) Specify the unique ID of the resource being evaluated.</td>
</tr>
<tr>
<td>connectorId</td>
<td>(string) Specify the unique Id associated with the connector in the user's scope.</td>
</tr>
</tbody>
</table>

**Sample - Get list of connectors in user's account**

Return the list of all connectors in the user's scope.

**API request**

```
curl -k -X GET -u <username>:<password> 'Accept: application/json' -- 'https://<QualysURL>/cloudview-api/rest/v1/gcp/evaluations/stats/52019/3156296211597617506/1111a111-1111-11a1-a1a1-1aa1a1111111'
```

**Response**

```
{
    "firstEvaluated": "2019-03-29T05:56:00+0000",
    "lastEvaluated": "2019-03-29T08:10:58+0000",
    "dateReopen": "2019-03-29T08:10:58+0000",
}
```
"dateFixed": "2019-03-29T06:09:05+0000"}
Get the list of evaluations per account for GCP controls

/rest/v1/gcp/evaluations/{projectId}

[GET]

Specify the details such as project ID and filter details to get the list of evaluations for GCP control.

**Input Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>projectId</td>
<td>(string) Specify the unique project associated with your Google Cloud Platform subscription.</td>
</tr>
<tr>
<td>filter</td>
<td>Filter the resources list by providing a query using Qualys syntax. If you do not add a date filter, by default the data for last 7 days is included in the response. If you need data for specific date or date range, form your filter query using evaluatedOn token. Examples:</td>
</tr>
<tr>
<td></td>
<td>Show resources discovered within certain dates evaluatedOn: [2019-01-01 ... 2019-03-01]</td>
</tr>
<tr>
<td></td>
<td>Show resources updated starting 2019-01-01, ending 1 month ago evaluatedOn: [2019-01-01 ... now-1m]</td>
</tr>
<tr>
<td></td>
<td>Show resources updated starting 2 weeks ago, ending 1 second ago evaluatedOn: [now-2w ... now-1s]</td>
</tr>
<tr>
<td></td>
<td>Show resources discovered on specific date evaluatedOn: 2019-01-08</td>
</tr>
</tbody>
</table>
Sample - Get all or filter the evaluations for your account

API request

```
curl -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/gcp/evaluations/my-project-1111111111111'
```

Response

```
{
  "content": [
    {
      "controlName": "Ensure that there are only GCP-managed service account keys for each service account",
      "policyName": "CIS Google Cloud Platform Foundation Benchmark",
      "criticality": "HIGH",
      "service": "IAM",
      "result": "FAIL",
      "controlId": "52001",
      "passedResources": 13,
      "failedResources": 25
    },
    ...
  ],
  "pageable": {
    "sort": {
      "sorted": false,
      "unsorted": true
    },
    "pageSize": 100,
    "pageNumber": 0,
    "offset": 0,
    "paged": true,
    "unpaged": false
  },
  "totalElements": 18,
  "last": true,
  "totalPages": 1,
  "first": true,
  "sort": {
    "sorted": false,
    "unsorted": true
  },
  "numberOfElements": 18,
  "size": 100,
  "number": 0
}
```
CloudView APIs

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

/rest/v1/gcp/evaluations/{projectId}/resources/{controlId}

[GET]

Specify the details such as project Id, control Id and define your filter criteria to get the list of resources that were evaluated

**Input Parameters**

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>projectId</td>
<td>(string) Specify the project Id of a specific account in the user’s scope.</td>
</tr>
<tr>
<td>controlId</td>
<td>(string) Specify the control ID of a control for which resources evaluated need to be fetched.</td>
</tr>
<tr>
<td>filter</td>
<td>Filter the resources list by providing a query using Qualys syntax.</td>
</tr>
</tbody>
</table>

If you do not add a date filter, by default the data for last 7 days is included in the response. If you need data for specific date or date range, form your filter query using evaluatedOn token.

**Examples:**

Show resources discovered within certain dates

```
evaluatedOn: [2019-01-01 ... 2019-03-01]
```

Show resources updated starting 2019-01-01, ending 1 month ago

```
evaluatedOn: [2019-01-01 ... now-1m]
```

Show resources updated starting 2 weeks ago, ending 1 second ago

```
evaluatedOn: [2019-01-01 ... now-2w]
```
CloudView APIs

**evaluatedOn:** [now-2w ... now-1s]

Show resources discovered on specific date
evaluatedOn: 2019-01-08

**pageNo**  
(integer) The page to be returned.

**pageSize**  
(integer) The number of records per page to be included in the response.

**Sample - 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-1111111111111/resources/50010?pageNo=0&pageSize=50'

**Response**

```json
{
    "content": [
        {
            "controlName": "Ensure that there are only GCP-managed service account keys for each service account",
            "policyName": "CIS Google Cloud Platform Foundation Benchmark",
            "criticality": "HIGH",
            "service": "IAM",
            "result": "FAIL",
            "controlId": "52001",
            "passedResources": 13,
            "failedResources": 25
        }
    ],
    "pageable": {
        "sort": {
            "sorted": false,
            "unsorted": true
        },
        "pageSize": 100,
        "pageNumber": 0,
        "offset": 0,
        "paged": true,
        "unpaged": false
    }
}
```
"totalElements": 1,
"last": true,
"totalPages": 1,
"first": true,
"sort": {
  "sorted": false,
  "unsorted": true
},
"numberOfElements": 1,
"size": 100,
"number": 0
Reports

You can now generate mandate and policy based reports to get the complete picture of the compliance posture of your AWS account. Currently, we support report generation for policies and mandates only for AWS cloud provider.

- Get Data for Specific Report
- Get List of All Supported Mandates
- Get List of All Supported Policies
- Get Report Configurations
- Get Report Details
- Create a Report
- Update a Report
- Delete Reports
Get Data for Specific Report

/rest/v1/reports/report_data/{reportId}

[GET]

Specify the report ID and you can then get the complete report.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>reportId</td>
<td>Unique identifier associated with every report.</td>
</tr>
</tbody>
</table>

Sample - Get the complete data of specified report

API request

curl -k -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/reports/b81d8331-506d-11e9-ba0b-2d8c133f77e9'

Response

{
  "mandate": {
    "id": 2481,
    "name": "Cloud Controls Matrix (CCM)",
    "publisher": "Cloud Security Alliance (CSA)",
    "version": "Ver 3.0.1",
    "releaseDate": "2016-10-05T00:00:00.000+0000",
    "lastModified": "2018-05-28T11:20:10.000+0000"
  },
  "requirements": [
    {
      "document": {
        "id": 5443,
        "complianceDocumentId": 2481,
        "section": "AIS",
        "comments": "Application & Interface Security",
        "lastModified": "2016-12-21T15:22:45.000+0000"
      },
    }
  ]
"requirements": [ 
{
"document": {
"id": 5444,
"complianceDocumentId": 2481,
"section": "AIS-01",
"comments": "Application Security",
"pid": 5443,
"lastModified": "2016-12-21T15:22:45.000+0000"
}
},
"controlObjectives": [ 
{
"document": {
"id": 4530,
"complianceDocumentId": 2261,
"section": "SC-7",
"comments": "Boundary Protection",
"pid": 4512,
"lastModified": "2016-10-18T15:26:57.000+0000"
}
},
"controlObjectives": [ 
{
"document": {
"id": 4535,
"complianceDocumentId": 2261,
"section": "SC-7(5)",
"comments": "Boundary Protection | Deny By Default / Allow By Exception",
"pid": 4530,
"lastModified": "2016-10-18T15:26:57.000+0000"
}
},
"controls": [ 
{
"cid": 44,
"controlName": "Ensure the default security group of every VPC restricts all traffic",
"policyName": "CIS Amazon Web Services Foundations Benchmark",
"criticality": "MEDIUM",
"cloudType": "AWS",
"stats": { 
"passPercent": 0,
"passCount": 0,
"failPercent": 100,
"failCount": 16
} 
} ]
}
CloudView APIs

{
  
  "stats": {
    "passPercent": 0,
    "passCount": 0,
    "failPercent": 100,
    "failCount": 16
  }
  ...
  "summary": {
    "mandatesCount": 1,
    "requirementsCount": 16,
    "mandateName": "Cloud Controls Matrix (CCM)",
    "mandatePassPercent": 38.18,
    "accounts": [
      {
        "name": "Sample Report",
        "id": "7b4dee60-3b53-11e9-b3a0-2593ff30b8c4",
        "accountId": "791005424431",
        "cloudType": "AWS"
      }
    ],
    "controlsCount": 68,
    "totalEvaluationsCount": 110,
    "policiesCount": 2
  }
}
Get List of All Supported Mandates

/rest/v1/reports/mandates

[GET]

You can fetch the list of all the supported mandates.

Sample - Get the list of all supported mandates

API request

curl -k -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/reports/mandates'

Response

[  
  {
    "id": 2481,
    "name": "Cloud Controls Matrix (CCM)"
  },
  {
    "id": 2441,
    "name": "Payment Card Industry Data Security Standard (PCI-DSS)"
  },
  {
    "id": 2443,
    "name": "ISO/IEC 27001:2013"
  }
]

Response Code: 200
Get List of All Supported Policies

/rest/v1/reports/policies

[GET]

You can fetch the list of all the supported policies in your account.

Sample - Get the list of all the supported policies for your account

API request

curl -k -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/reports/policies'

Response

[
  {
    "id": "1b8a3200-dbb3-11e7-b820-0518e3f8c979",
    "title": "AWS Best Practices Policy",
    "cloudType": "AWS"
  },
  {
    "id": "68dc5320-8677-11e8-9d84-85bffa8eeea9",
    "title": "CIS Amazon Web Services Foundations Benchmark",
    "cloudType": "AWS"
  }
]
Response Code: 200
Get Report Configurations

/rest/v1/reports

[GET]

You can fetch all the list of report configurations.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>pageNo</td>
<td>(integer) The page to be returned.</td>
</tr>
<tr>
<td>pageSize</td>
<td>(integer) The number of records per page to be included in the response.</td>
</tr>
</tbody>
</table>

Sample - Get the list of report configurations

**API request**

```bash
curl -k -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/reports?pageNo=0&pageSize=3'
```

**Response**

```json
{
  "content": [
    {
      "reportId": "84685b50-4d43-11e9-9496-d5e5ac80c6e2",
      "title": "Mandate_Report",
      "type": "MANDATE",
      "format": "ON_SCREEN",
      "accounts": [
        {
          "name": "User_John",
          "id": "5a4f0630-39ab-11e9-a7c7-6f7103922bbf",
          "accountId": "111111111111",
          "cloudType": "AWS"
        }
```
"pageable": {
  "sort": {
    "sorted": false,
    "unsorted": true
  },
  "pageSize": 6,
  "pageNumber": 0,
  "offset": 0,
  "paged": true,
  "unpaged": false
},
"last": false,
"totalPages": 2,
"totalElements": 11,
"first": true,
"sort": {
  "sorted": false,
  "unsorted": true
},
"numberOfElements": 6,
"size": 6,
"number": 0}
Get Report Details

/rest/v1/reports/{reportId}

[GET]

Specify the report ID and then you can get the details of the specified report.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>reportId</td>
<td>Unique identifier associated with every report.</td>
</tr>
</tbody>
</table>

Sample - Get the details of specified report configuration

**API request**

curl -k -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/reports/9cce6540-4b36-11e9-be40-09d60abc9fcd'

**Response**

```json
{
  "reportId": "b81d8331-506d-11e9-ba0b-2d8c133f63e9",
  "title": "Mandate_Report",
  "type": "MANDATE",
  "format": "ON_SCREEN",
  "accounts": [
    {
      "name": "Qualys_Dev",
      "id": null,
      "accountId": "383031258652",
      "cloudType": "AWS"
    }
  ],
  "description": "CCM",
  "policies": [
    {
      "policyId": "1b8a3200-dbb3-11e7-b820-0518e3f8c979"
    }
  ]
}```
"cloudType": "AWS"
},
{
  "policyId": "68dc5320-8677-11e8-9d84-85bffa8eeea9",
  "cloudType": "AWS"
},
"mandateId": "2481",
"createdOn": "2019-03-27T08:52:58+0000"
Create a Report

/rest/v1/reports

[POST]

To generate a new report you need to provide information such as account ID, the cloud provider for which you would want to generate the report and few other details such as name, description, format, mandate ID and so on.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>configurationBody</td>
<td>You need to provide the required details in the configurationBody parameter. The syntax for the same is given below:</td>
</tr>
</tbody>
</table>

Syntax:

```
{
  "accounts": [
    {
      "accountId": "string",
      "cloudType": "string",
      "id": "string",
      "name": "string"
    }
  ],
  "description": "string",
  "format": "string",
  "mandateId": "string",
  "policies": [
    {
      "cloudType": "string",
      "policyId": "string"
    }
  ],
  "title": "string",
  "type": "string"
}
```

CloudView APIs

where,

**accountId**: unique AWS account ID.

**cloudType**: the cloud provider (AWS).

**id**: connector Id

**name**: name of the connector

**description**: description of the report

**format**: the report format (Currently, only On-Screen format supported).

**mandateldId**: unique ID associated with the mandate.

**cloudType**: AWS

**policyId**: unique ID associated with the policy.

**title**: name of the report

**type**: indicates if it is policy report or mandate report.

Sample - Create a new report

**API request**

```bash
curl -X POST --header
-d '{
  "title": "Mandate_Report_Public_API",
  "description": "CCM",
  "type": "MANDATE",
  "policies": [{
    "policyId": "1b8a3200-dbb3-11e7-b820-0518e3f8c979",
    "cloudType": "AWS"
  }, {
    "policyId": "68dc5320-8677-11e8-9d84-85bfa8eeea9",
    "cloudType": "AWS"
  }],
  "mandateId": 2481,
  "format": "ON SCREEN"
}'
```
"accounts": [{
  "cloudType": "AWS",
  "name": "Qualys_Dev",
  "accountId": "111111111111"
}]
}' https://<QualysURL>/cloudview-api/rest/v1/reports'

Response

{
  "title": "Mandate_Report_Public_API",
  "type": "MANDATE",
  "format": "ON_SCREEN",
  "accounts": [
    {
      "name": "Qualys_Dev",
      "id": null,
      "accountId": "111111111111",
      "cloudType": "AWS"
    }
  ],
  "description": "CCM",
  "policies": [
    {
      "policyId": "1b8a3200-dbb3-11e7-b820-0518e3f8c979",
      "cloudType": "AWS"
    },
    {
      "policyId": "68dc5320-8677-11e8-9d84-85bffa8eeea9",
      "cloudType": "AWS"
    }
  ],
  "mandateId": "2481",
  "createdOn": "2019-04-04T09:58+0000",
  "reportId": "b2f0e120-56b9-11e9-abce-d1748f389748"
}
Update a Report

/rest/v1/reports/{reportId}

[PATCH]

You can update a report template to generate a new report.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>reportId</td>
<td>Unique identifier associated with every report.</td>
</tr>
<tr>
<td>configurationBody</td>
<td>You need to provide the required details in the configurationBody parameter. The syntax for the same is given below:</td>
</tr>
</tbody>
</table>

Syntax:

```json
{
   "accounts": [
       {
          "accountId": "string",
          "cloudType": "string",
          "id": "string",
          "name": "string"
       }
   ],
   "description": "string",
   "format": "string",
   "mandateId": "string",
   "policies": [
       {
          "cloudType": "string",
          "policyId": "string"
       }
   ],
   "title": "string",
   "type": "string"
}
```
where,

**accountId**: unique AWS account ID.

**cloudType**: the cloud provider (AWS).

**id**: connector Id

**name**: name of the connector

**description**: description of the report

**format**: the report format (Currently, only On-Screen format supported).

**mandateldId**: unique ID associated with the mandate.

**cloudType**: AWS

**policyId**: unique ID associated with the policy.

**title**: name of the report

**type**: indicates if it is policy report or mandate report.

Sample - Update the configuration of an existing report

**API request**
```
curl -X PATCH -u <username>:<password> 'Content-Type: application/json'-d ' {
  "title": "Mandate_Report",
  "type": "MANDATE",
  "format": "ON_SCREEN",
  "accounts": [
    { 
      "name": "Qualys_Dev",
      "id": "5a4f0630-39ab-11e9-a7c7-6f7103922bbf",
      "accountId": "111111111111",
      "cloudType": "AWS"
    }
  ]
} 
```
"description": "CCM",
"policies": [
{
   "policyId": "1b8a3200-dbb3-11e7-b820-0518e3f8c979",
   "cloudType": "AWS"
},
{
   "policyId": "68dc5320-8677-11e8-9d84-85bffa8eeea9",
   "cloudType": "AWS"
}
],
"mandateId": "2481"
}' https://<QualysURL>/cloudview-api/rest/v1/reports/7fb67360-4d40-11e9-a00f-f18386b5a29f'

Response
{
"reportId": "47cb7ef0-4ed5-11e9-83e9-0f51c0d025db",
"title": "Mandate_Report",
"type": "MANDATE",
"format": "ON_SCREEN",
"accounts": [
{
   "name": "Qualys_Dev",
   "id": null,
   "accountId": "11111111111",
   "cloudType": "AWS"
}
],
"description": "CCM",
"policies": [
{
   "policyId": "1b8a3200-dbb3-11e7-b820-0518e3f8c979",
   "cloudType": "AWS"
},
{
   "policyId": "68dc5320-8677-11e8-9d84-85bffa8eeea9",
   "cloudType": "AWS"
}
],
"mandateId": "2481",
"createdOn": "2019-03-27T09:06:23+0000"
}
Delete Reports

/rest/v1/reports

[DELETE]

Specify the ID of the report you want to delete and the report gets deleted.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>reportId</td>
<td>Unique identifier associated with every report.</td>
</tr>
</tbody>
</table>

Sample - Delete the specified report

**API request**

curl -X DELETE -u <username>:<password> -d '["9cce6540-4b36-11e9-be40-09d60abc9fcd"]' 'https://<QualysURL>/cloudview-api/rest/v1/reports'

**Response**

No Content
Response Code: 204

Sample - Delete multiple reports

**API request**

curl -X DELETE -u <username>:<password> -d '["9cce6540-4b36-11e9-be40-09d60abc9fcd","fbfd2de0-4af4-11e9-9fd1-1344989d5139"]' 'https://<QualysURL>/cloudview-api/rest/v1/reports'

**Response**

No Content
Response Code: 204
Connector Groups Management APIs

Get Groups

/rest/v1/aws/groups

[GET]

Fetch the list of groups associated with the user.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>pageNo</td>
<td>(integer) The page to be returned.</td>
</tr>
<tr>
<td>pageSize</td>
<td>(integer) The number of records per page to be included in the response.</td>
</tr>
</tbody>
</table>

Sample - Get the list of all groups associated with the user

**API request**

curl -k -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/groups?pageNo=0&pageSize=3'

**Response**

```json
{
  "content": [
    {
      "name": "empty",
      "uuid": "bad111c0-5de8-31ef-1111-4f1c2bd11111",
      "connectors": []
    },
    {
      "name": "sample_1",
      "uuid": "01011f80-fe1d-38c5-1111-56ac16361111",
      "connectors": [
```
{  
  "connectorUuid": "d0830ee0-c4b7-11e9-b442-ad0de981ea5c",
  "accountIdentifier": "XXXXXXXXXXXXXX",
  "cloudType": "AWS"
}
},
{
  "name": "Sample_2_Azure",
  "uuid": "ce7c0d23-af60-320f-b8cb-f6b51b2fb8a5",
  "connectors": [
    {
      "connectorUuid": "5926c280-c587-11e9-9230-31a5d0c73f76",
      "accountIdentifier": "XXXXXXXX-XXX-XXX-XXX-XXXXXXXXXXXXXX",
      "cloudType": "AZURE"
    },
    {
      "connectorUuid": "2e0c1660-d061-11e9-ad71-df4fba75b3c5",
      "accountIdentifier": "XXXXXXXX-XXX-XXX-XXX-XXXXXXXXXXXXXX",
      "cloudType": "AZURE"
    }
  ]
},
"pageable": {
  "sort": {
    "unsorted": true,
    "sorted": false
  },
  "pageSize": 3,
  "pageNumber": 0,
  "offset": 0,
  "unpaged": false,
  "paged": true
},
"totalElements": 27,
"last": false,
"totalPages": 9,
"first": true,
"sort": {
  "unsorted": true,
  "sorted": false
},
"numberOfElements": 3,
"size": 3,
"number": 0
Create Group

/rest/v1/groups/{cloudType}

[POST]

The groups help you to organize your connectors and to manage user access to them. You can create groups and associate it with connectors and form connector groups or segregate connectors using a specific group for a connector as well. Use groups to provide access or restrict access to users you create.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>groupName</td>
<td>(String) Provide a name for the group you want to create. Ensure that the name is unique.</td>
</tr>
</tbody>
</table>

Sample - Create a group in CloudView

API request

```bash
curl -k -X POST -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/groups?groupName=sample_group'
```

Response

```
{
   "name": "sample_group",
   "groupId": "745aca99-6ab6-3e1d-8e65-7b4febc0005e"
}
```
Update Group

/rest/v1/groups/connectors

[POST]

The groups help you to organize your connectors and to manage user access to them. You can update groups and associate it with connectors and form connector groups or segregate connectors using a specific group for a connector as well. Use groups to provide access or restrict access to users you create.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>connectorGroupModifyRequest</td>
<td>(body) Use this to specify the connector group IDs that you want to add and remove groups.</td>
</tr>
<tr>
<td></td>
<td>Example:</td>
</tr>
<tr>
<td></td>
<td>{</td>
</tr>
<tr>
<td></td>
<td>&quot;accountIdentifiers&quot;: [&quot;string&quot;],</td>
</tr>
<tr>
<td></td>
<td>&quot;add&quot;: {</td>
</tr>
<tr>
<td></td>
<td>&quot;groupBy&quot;: [&quot;string&quot;]</td>
</tr>
<tr>
<td></td>
<td>},</td>
</tr>
<tr>
<td></td>
<td>&quot;remove&quot;: {</td>
</tr>
<tr>
<td></td>
<td>&quot;groupBy&quot;: [&quot;string&quot;]</td>
</tr>
<tr>
<td></td>
<td>}</td>
</tr>
<tr>
<td></td>
<td>where,</td>
</tr>
<tr>
<td></td>
<td>accountIdentifiers: The unique identifier associated with a connector. For every cloud provider, the identifier is different.</td>
</tr>
<tr>
<td></td>
<td>- AWS: account ID (Example: 111111111111)</td>
</tr>
<tr>
<td></td>
<td>- Azure: subscription ID (Example: 1111111-111-1111-1111-11111111111)</td>
</tr>
</tbody>
</table>
CloudView APIs

- GCP: project ID (Example: sample_gcp)

groupId: Unique Id associated with each group.

Example: ea4b240f-c27c-30a6-ba28-8fc9a38fa8d1.

cloudType

Select the cloud provider to which the connector being updated belongs.

Sample - Update Connectors in a group

**API request**

curl -k -X POST -u <username>:<password>
'https://<QualysURL>/cloudview-api/rest/v1/groups/connectors?cloudType=GCP'

**Request POST Data**

```json
{
    "accountIdentifiers": [ "gcp-demo" ],
    "add":
    {
        "groupIds": [ "ea4b240f-c27c-30a6-ba28-8fc9a38fa8d1" ]
    },
    "remove":
    {
        "groupIds": [ "8b23977c-9f28-3007-8c11-c0469494053f" ]
    }
}
'https://<QualysURL>/cloudview-api/rest/v1/groups/connectors?cloudType=GCP'
```

**Response**

No Content
Response Code: 204
Get Group Details

/rest/v1/groups/{groupUuid}

[GET]

You can get details of a group by specifying the unique Id associated with a group.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GroupUuid</td>
<td>(integer) Unique Id associated with each group.</td>
</tr>
<tr>
<td></td>
<td>Example: groupUuid: b3e9036d-b546-30d4-99fb-cb64b15efffa</td>
</tr>
</tbody>
</table>

Sample - Get the list of groups

API request

```bash
curl -k -X GET -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/groups/2d16e55b-d01a-3fcb-8239-3d4ea04bc54a'
```

Response

```json
{
    "name": "group2",
    "uuid": "2d16e55b-d01a-3fcb-8239-3d4ea04bc54a",
    "connectors": [
    {
        "connectorUuid": "66e7d1f0-c8c2-11e9-9fcb-85661d3ad949",
        "accountIdentifier": "gcp-demo",
        "cloudType": "GCP"
    },
    {
        "connectorUuid": "271bdec0-d2f1-11e9-93db-85a6f54e372e",
        "accountIdentifier": "gcp_example_2",
        "cloudType": "GCP"
    }
}
```
CloudView APIs

```json
{}
]
}
```
User Access Management APIs

Get the User Scope

/rest/v1/users/{userName}/scope

[GET]

You can fetch the group details by specifying the unique Id assigned to a group.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>userName</td>
<td>(string) Provide the username for which the scope needs to be determined.</td>
</tr>
</tbody>
</table>

Sample - Get the list of groups

API request

curl -k -X GET -u <username>:

'https://<QualysURL>/cloudview-api/rest/v1/users/user_john/scope'

Response

```
"groups": [
  {
    "uuid": "52660405-27d3-3f69-b764-b0061ab4c494",
    "title": "Example_group",
    "connectorCount": 2
  }
],
"AWS": {
  "directAccountScope": [
  {
    "connectorUuid": "af50f5c0-c8c2-11e9-945e-77a38645daea",
    "accountIdentifier": "XXXXXXXXXXXXX",
    "cloudType": "AWS"
  }
  ]
}
```
"connectorName": "AWS_Connector_1"
],
"regions": [
  "us-east-1",
  "us-east-2"
],
"AZURE": {
  "directAccountScope": [
    {
      "connectorUuid": "2e0c1660-d061-11e9-ad71-df4fba75b3c5",
      "accountIdentifier": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXXXX",
      "cloudType": "AZURE",
      "connectorName": "Azure_Connector_2"
    }
  ]
},
"GCP": {
  "directAccountScope": [
    {
      "connectorUuid": "66e7d1f0-c8c2-11e9-9fcb-85661d3ad949",
      "accountIdentifier": "gcp-demo",
      "cloudType": "GCP",
      "connectorName": "GCP_Connector_3"
    }
  ]
}
Update Groups Scope for User

/rest/v1/users/{userName}/groupScope

[POST]

You can now update the groups associated with a specific user. You could add new groups and remove groups that are associated with the user using update operation.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>userName</td>
<td>Provide the username for which the group scope needs to be updated.</td>
</tr>
<tr>
<td>userGroupModifyRequest</td>
<td>(body) Use this to specify the group IDs that you want to add and remove.</td>
</tr>
</tbody>
</table>

Example:

```json
{
   "add": {
      "groupsIds": ["string"]
   },
   "remove": {
      "groupsIds": ["string"]
   }
}
```

where,

groupIds: unique ID assigned to the group.

Example: ea4b240f-c27c-30a6-ba28-8fc9a38fa8d1

Sample - Update Connectors in a group

**API request**

```bash
curl -k -X POST -u <username>:<password>
```
### Request POST Data

```json
userGroupModifyRequest : 
{
    "add": {
        "groupsIds": [
            "52660405-27d3-3f69-b764-b0061ab4c494"
        ]
    },
    "remove": {
        "groupsIds": [
            "9d665fd0-f15d-379f-8b11-b39cd4ebfd9e"
        ]
    }
}
```

### Response

```json
{
    "groups": [
        {
            "uuid": "52660405-27d3-3f69-b764-b0061ab4c494",
            "title": "new-group",
            "connectorCount": 2
        }
    ],
    "AWS": {
        "directAccountScope": [],
        "regions": []
    },
    "AZURE": {
        "directAccountScope": []
    },
    "GCP": {
        "directAccountScope": []
    }
}
```
Update Connector Scope for user

/rest/v1/users/{userName}/scope

[POST]

You can now update the connectors associated with a specific connector. You could add new groups and remove groups that are associated with the connector using update operation.

Input Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>userName</td>
<td>Provide the username for which the group scope needs to be updated.</td>
</tr>
</tbody>
</table>

userGroupModifyRequest  Use this to specify the group IDs that you want to add and remove.

Example:

```json
{
  "add": {
    "accountIdentifiers": ["string"],
    "regions": ["string"]
  },
  "remove": {
    "accountIdentifiers": ["string"],
    "regions": ["string"]
  }
}
```

where,

accountIdentifiers: The unique identifier associated with a connector. For every cloud provider, the identifier is different.

- AWS: account ID (Example: 111111111111)
- Azure: subscription ID (Example: 11111111-1111-1111-1111-111111111111)

- GCP: project ID (Example: sample_gcp)

regions: (applicable only for AWS connectors)
Specify the region of the connector

<table>
<thead>
<tr>
<th>cloudType</th>
<th>Select the cloud provider of the connector being updated: AWS, Azure or GCP.</th>
</tr>
</thead>
</table>

Sample - Update the Groups associated with the Connector

**API request**

```
curl -k -X POST -u <username>:<password> 'https://<QualysURL>/cloudview-api/rest/v1/users/user_john/scope?cloudType=AWS'
```

**Request POST Data**

```
{
  "add": {
    "accountIdentifiers": ["XXXXXXXXXXXX"],
    "regions": ["us-east-1","us-east-2"]
  },
  "remove": {
    "accountIdentifiers": ["XXXXXXXXXXXX"],
    "regions": ["eu-west-1"]
  }
}
```

CloudType: AWS

**Response**

```
{
  "groups": [
   {
    "uuid": "52660405-27d3-3f69-b764-b0061ab4c494",
    "title": "new_sample_group",
  }
  
```
"connectorCount": 2
],
"AWS": {
   "directAccountScope": [
   {  
      "connectorUuid": "af50f5c0-c8c2-11e9-945e-77a38645daea",
      "accountIdentifier": "XXXXXXXXXXXX",
      "cloudType": "AWS",
      "connectorName": "AWS_Connector"
   }
   ],
   "regions": [
      "us-east-1",
      "us-east-2"
   ]
},
"AZURE": {
   "directAccountScope": []
},
"GCP": {
   "directAccountScope": [
   {  
      "connectorUuid": "66e7d1f0-c8c2-11e9-9fcb-85661d3ad949",
      "accountIdentifier": "gcp-demo",
      "cloudType": "GCP",
      "connectorName": "GCP_Connector"
   }
   ]
}