



# CloudView APIs

User Guide

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# CloudView API User Guide

## 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

<https://qualysguard.qg2.apps.qualys.com/cloudview-api/swagger-ui.html>

### 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 US Platform 3 - <https://qualysguard.qg3.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>

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 accountId](#)

[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

Parameter	Description
pageNo	(integer) The page to be returned.
pageSize	(integer) The number of records per page to be included in the response.

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=1&pageSize=50'
```

### Response

```
{
  "content": [
    {
      "name": "My_AWS_connector",
      "description": "string_change",
      "awsAccountId": "XXXXXXXXXXXX",
      "state": "SUCCESS",
      "totalAssets": 4145,
```

```

    "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-d848-4e10-9ffd-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

Parameter	Description
connectorId	(integer) Specify the unique Id associated with connector in the user's scope.

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

```
{
  "name": "My AWS Connector",
  "description": "string_check1",
  "awsAccountId": "111111111111",
  "state": "SUCCESS",
  "totalAssets": 4234,
  "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": null,  
  "govAccountId": null,  
  "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

Parameter	Description
externalId	(integer) External Id to be used for generating the template.

Sample - Download the Cloud Formation Template

### API request

```
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

Parameter	Description
connectorId	(integer) Specify the unique Id associated with connector in the user's scope.
pageNo	(integer) The page to be returned.
pageSize	(integer) The number of records per page to be included in the response.

Sample -

### API request

```
curl -k -X GET -u <username>:<password> '
'https://<QualysURL>/cloudview-api/rest/v1/aws/connectors/226947d0-
569d-11e9-8032-2fa7ed9d9b64/errors?pageNo=1&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

Parameter	Description
<code>connectorBody</code>	<p>(body) Specify the connector details such as <code>qualysAccountId</code>, <code>arn</code>, <code>externalId</code>, and so on. Refer to the following example for exact syntax.</p> <pre>{   "arn": "string",   "description": "string",   "externalId": "string",   "isPortalConnector": true,   "name": "string" }</pre> <p>Where,</p> <ul style="list-style-type: none"> <li>-<code>arn</code>: Specify the ARN of the cross-account role you created in your AWS account.</li> <li>-<code>description</code> is optional and you can give a short description stating the purpose of the connector you want to create.</li> <li>-<code>externalId</code>: Specify the external ID that you have provided in AWS while creating the cross-account role.</li> <li>-<code>isPortalConnector</code>: (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</li> </ul>

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 - Get list of connectors in user's account

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

### 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/QualysCloudViewSanketShinde",
  "description": "string",
  "externalId": "1558121756190",
  "isPortalConnector": true,
  "name": "My AWS Connector"
}
```

### Response

```
{
  "name": "My AWS Connector",
  "description": "string",
  "awsAccountId": "XXXXXXXXXXXX",
  "state": "PENDING",
  "totalAssets": 0,
  "provider": "AWS",
  "connectorId": "1a1b6fb0-5150-11e9-b42c-7b8f80d86320",
  "error": "",
  "baseAccountId": "XXXXXXXXXXXX",
  "externalId": "1558121756190",
  "arn": "arn:aws:iam::XXXXXXXXXXXX:role/ClouViewDemoAWS",
  "lastSyncedOn": "2019-03-28T11:53:28+0000",
  "portalConnectorUuid": "0ce0385a-42ec-4623-a90e-097a45c3cf2b",
  "isPortalConnector": true
}
```

## Run Connector

/rest/v1/aws/connectors/run

[POST]

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

Input Parameters

Parameter	Description
connectorRunRequest	<p>(body) Specify the IDs of the connectors that you want to execute/run.</p> <p>Example:</p> <pre>{   "awsIds":   [     "string"   ] }</pre>

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

### API request

```
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

Parameter	Description
connectorId	(integer) Specify the unique Id associated with connector in the user's scope.

connectorBody (body) Specify the connector details to be updated such as qualysAccountId, arn, externalId, and so on. Refer to the following example for exact syntax.

```
{
  "arn": "string",
  "description": "string",
  "externalId": "string",
  "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 provided in AWS while creating the cross-account role.

-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

#### 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",
  "isPortalConnector": true,
  "name": "My updated AWS Connector"
}
```

#### Response

```
{
  "name": "My updated AWS Connector",
  "description": "string_change",
  "awsAccountId": "XXXXXXXXXXXX",
  "state": "PENDING",
  "totalAssets": 0,
  "provider": "AWS",
  "connectorId": "1a1b6fb0-5150-11e9-b42c-7b6f80d86320",
  "error": " ",
  "baseAccountId": "XXXXXXXXXXXX",
  "externalId": "1558121756190",
  "arn": "arn:aws:iam::XXXXXXXXXXXX:role/CloudViewARNrole",
  "lastSyncedOn": "2019-03-28T12:01:05+0000",
```

```
"portalConnectorUuid": "81098071-d848-4e10-9ffd-efccace8312f",  
"isPortalConnector": true  
}
```

## Delete Connector (AWS)

/rest/v1/aws/connectors

[DELETE]

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

Input Parameters

Parameter	Description
connectorId	(integer) Specify the unique Id associated with connector in the user's scope.

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

Parameter	Description
controlId	(string) Specify the control ID of a control for which resources evaluated need to be fetched.
resourceId	(string) Specify the unique ID of the resource being evaluated.
connectorId	(string) Specify the unique Id associated with the connector in the user's scope.

### 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**

Parameter	Description
accountId	(string) Specify the unique Id associated with your AWS account.

filter

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

**Sample - 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/888888888888'
```

**Response**

```
{
  "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
    }
  ]
}
```

```
    }  
  ],  
  "pageable": {  
    "sort": {  
      "unsorted": true,  
      "sorted": false  
    },  
    "pageSize": 100,  
    "pageNumber": 0,  
    "offset": 0,  
    "paged": true,  
    "unpaged": false  
  },  
  "last": true,  
  "totalElements": 68,  
  "totalPages": 1,  
  "first": true,  
  "sort": {  
    "unsorted": true,  
    "sorted": false  
  },  
  "numberOfElements": 68,  
  "size": 100,  
  "number": 0  
}
```



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**

Parameter	Description
accountId	(string) Specify the unique Id associated with your AWS account.
controlId	(string) Specify the control ID of a control for which resources evaluated need to be fetched
filter	<p>Filter the resources list by providing a query using Qualys syntax.</p> <p>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.</p> <p>Examples:</p> <p>Show resources discovered within certain dates evaluatedOn: [2019-01-01 ... 2019-03-01]</p> <p>Show resources updated starting 2019-01-01, ending 1 month ago evaluatedOn: [2019-01-01 ... now-1m]</p> <p>Show resources updated starting 2 weeks ago, ending 1 second ago evaluatedOn: [now-2w ... now-1s]</p> <p>Show resources discovered on specific date</p>

	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**

```
curl -X GET --header 'Accept: application/json' --header
'Authorization: Basic cXVheXNfY2Y6UWF0ZW1wQDEyMw=='
'https://<QualysURL>/cloudview-
api/rest/v1/aws/evaluations/888888888888/resources/28?pageNo=1&pageSiz
e=50'
```

**Response**

```
{
  "content": [{
    "resourceId": "sample_resource",
    "region": "us-east-1",
    "accountId": "111111111111",
    "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

Parameter	Description
pageNo	(integer) The page to be returned.
pageSize	(integer) The number of records per page to be included in the response.

Sample - Get list of connectors in user's account

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

### API request

```
curl -X GET --header 'Accept: application/json' --header
'Authorization: Basic cXVheXNfbW43OnFhdGVtcDEyMw=='
'https://<QualysURL>/cloudview-
api/rest/v1/azure/connectors?pageNo=1&pageSize=50'
```

### Response

```
{
  "content": [
    {
      "name": "My_Azure_Connector",
      "description": "Test description",
      "state": "SUCCESS",
      "lastSyncedOn": "2019-03-20T12:28:08+0000",
      "totalAssets": 44,
      "applicationId": "d8c3a45a-e6f9-449e-8a54-2416e2d61aec",
      "subscriptionId": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX",
      "provider": "AZURE",
    }
  ]
}
```

```

    "connectorId": "8e12a7f0-9cae-11e8-a44e-19034c3d27a6",
    "directoryId": "ff4e2413-65ab-4dc2-9e5b-1ea02d3d94eb"
  },
  {
    "name": "Azure_test_connector",
    "description": "Test description",
    "state": "PENDING",
    "lastSyncedOn": "2019-03-20T12:13:04+0000",
    "totalAssets": 0,
    "regions": [],
    "totalRegions": 30,
    "applicationId": "e8c3a45a-e6f8-449e-8a54-2416e2d61aec",
    "subscriptionId": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX",
    "provider": "AZURE",
    "connectorId": "640ef080-4a5f-11e9-a7fb-4d1a3748cc16",
    "directoryId": "ee4e2413-65ab-4dc2-9e5b-1ea02d3d94eb"
  }
],
"pageable": {
  "sort": {
    "unsorted": true,
    "sorted": false
  },
  "pageSize": 50,
  "pageNumber": 0,
  "offset": 0,
  "paged": true,
  "unpaged": false
},
"totalPages": 1,
"totalElements": 2,
"last": true,
"first": true,
"sort": {
  "unsorted": true,
  "sorted": false
},
"numberOfElements": 2,
"size": 50,
"number": 0
}

```

## 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

Parameter	Description
connectorId	(string) Specify the unique Id associated with connector in the user's scope.

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

### API request

```
curl -X GET --header 'Accept: application/json' --header
'Authorization: Basic cXVheXNfbW43OnFhdGVtcDEyMw=='
'https://qualysapi.qualys.com/cloudview-
api/rest/v1/azure/connectors/67a51d30-14d4-12e9-aae4-31d950d53bd8'
```

### Response

```
{
  "name": "My Test Connector",
  "description": "This is test description",
  "state": "SUCCESS",
  "lastSyncedOn": "2019-03-20T12:28:08+0000",
  "totalAssets": 44,
  "applicationId": "d8c3a45a-e6f9-449e-8a54-2416e2d61aec",
  "subscriptionId": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX",
  "provider": "AZURE",
  "connectorId": "8e12a7f0-9cae-11e8-a44e-19034c3d27a6",
  "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

Parameter	Description
connectorBody	<p>(body) Specify the connector details such as qualysAccountId, arn, externalId, and so on. Refer to the following example for exact syntax.</p> <pre>{   "applicationId": "string",   "authenticationKey": "string",   "description": "string",   "directoryId": "string",   "name": "string",   "subscriptionId": "string" }</pre> <p>Where,</p> <ul style="list-style-type: none"> <li>-applicationId: Unique identifier of the application you create on Azure portal.</li> <li>-authenticationKey: The secret key generated after you provide permission to the application to access the Windows Azure Service.</li> <li>-description is optional and you can give a short description stating the purpose of the connector you want to create.</li> </ul>



-directoryId: Unique identifier of your Azure Active Directory.

-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": "XXXXXXXXXXXXXXXX", \
  "description": "This is test description", \
  "directoryId": "ff4e2442-65ab-4dc2-9e5b-1ea02d3d94eb", \
  "name": "My Azure Connector", \
  "subscriptionId": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX" \
}
```

### Response

```
{
  "name": "My Azure Connector",
  "description": "This is test description",
  "state": "PENDING",
  "totalAssets": 0,
  "applicationId": "d8c3a66a-e6f9-449e-8a54-2416e2d61aec",
  "subscriptionId": "string2345",
  "provider": "AZURE",
  "connectorId": "674292e0-5223-11e9-be90-4dfe52eda963",
  "lastSyncedOn": "2019-03-29T01:06:23+0000",
  "directoryId": "ff4e2442-65ab-4dc2-9e5b-1ea02d3d94eb"
}
```

## Run Connector (Azure)

/rest/v1/azure/connectors/run

[POST]

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

Input Parameters

Parameter	Description
connectorRunRequest	(Array[string]) Specify the IDs of the connector that you want to execute/run. Example: ["67a51d30-14d4-12e9-aae4-31d950d53bd7"]

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

Parameter	Description
<code>connectorId</code>	(string) Specify the unique Id associated with connector in the user's scope.

`connectorBody` (body) Specify only those connector details that you want to update. Refer to the following example for syntax.

```
{
  "applicationId": "string",
  "authenticationKey": "string",
  "description": "string",
  "directoryId": "string",
  "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.

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

### Sample - Update Azure Connector

Update connector in the user's scope.

#### API request

```
curl -k -X GET -u <username>:<password>
{
  "description": "Change in description",
  }'
'https://<QualysURL>/cloudview-api/rest/v1/azure/connectors/7d80a840-40b6-11e9-9078-111111111111'
```

#### Response

```
{
  "name": "Azure-Connector",
  "description": "Change in description",
  "state": "PENDING",
  "totalAssets": 0,
  "applicationId": "d8c3a45a-e6f9-449e-8a54-2416e2d61aec",
  "subscriptionId": "1111111-1111-1111-1111-111111111111",
  "provider": "AZURE",
  "connectorId": "7d80a840-40b6-11e9-9078-111111111111",
  "lastSyncedOn": "2019-03-28T09:20:13+0000",
  "directoryId": "ff4e2413-65ab-4dc2-9e5b-1ea02d3d94eb"
}
```

## Delete Connector

`/rest/v1/azure/connectors`

[DELETE]

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

Input Parameters

Parameter	Description
connectorId	(Array[string]) Specify the unique Id associated with connector in the user's scope.  Example: ["67a51d30-14d4-12e9-aae4-31d950d53bd7"]

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

Parameter	Description
controlId	(string) Specify the control ID of a control for which resources evaluated need to be fetched
resourceId	(string) Specify the unique ID of the resource being evaluated.
connectorId	(string) Specify the unique Id associated with the connector in the user's scope.

### 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**

Parameter	Description
subscriptionId	(string) Specify the unique Id associated with your Azure subscription.

filter

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



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

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

**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
}
```

```
}
```

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**

Parameter	Description
controlId	(string) Specify the control ID of a control for which resources evaluated need to be fetched
resourceId	(string) Specify the unique ID of the resource being evaluated.
connectorId	(string) Specify the unique Id associated with the connector in the user’s scope.
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**

```
curl -X GET --header 'Accept: application/json' --header
'Authorization: Basic cXVheXNfY2Y6UWF0ZW1wQDEyMw=='
'https://<QualysURL>/cloudview-api/rest/v1/azure/evaluations/11111111-
1111-1111-1111-111111111111/resources/50001?pageNo=0&pageSize=50'
```

**Response**

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

```

"resourceId": "TestResource",
"subscriptionId": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX",
"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-XXXXXXXXXXXX",
  "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

Parameter	Description
pageNo	(integer) The page to be returned.
pageSize	(integer) The number of records per page to be included in the response.

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=1&
pageSize=50'
```

### Response

```
{
  "content": [
    {
      "name": "GCP Connector 1",
      "description": "Test GCP Connector",
      "state": "SUCCESS",
      "totalAssets": 24,
      "projectId": "XXXXXXX-XXXXXX-XXXXXX",
      "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": "XXXXXXXX-XXXXXX-XXXXXX",
  "provider": "GCP",
  "connectorId": "1111b111-1111-11b1-b1b1-1bb1b1111111",
  "lastSyncedOn": "2019-03-22T06:29:05+0000"
}
],
"pageable": {
  "sort": {
    "unsorted": true,
    "sorted": false
  },
  "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

Parameter	Description
connectorId	(string) Specify the unique Id associated with connector in the user's scope.

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

```
{
  "name": "GCP Connector",
  "description": "Get connector details",
  "state": "SUCCESS",
  "totalAssets": 115,
  "projectId": "my-project-1524669048661",
  "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

Parameter	Description
name	Name of the connector
description	Description of the connector
configFile	Provide the configuration file.

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-111111111111",
  "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

Parameter	Description
connectorRunRequest	(Array [string]) Specify the unique Id associated with connector in the user's scope.

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

Parameter	Description
connectorId	(integer) Specify the unique Id associated with connector in the user's scope.
name	Name of the connector
description	Description of the connector
configFile	Provide the configuration file.

### 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

```
{
  "name": "Change_name_GCP",
  "description": "Test description",
  "state": "PENDING",
  "totalAssets": 0,
  "projectId": "my-project-111111111111",
```

```
"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

Parameter	Description
connectorId	(Array [string]) Specify the unique Id associated with connector in the user's scope.

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

### API request

```
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

Parameter	Description
controlId	(string) Specify the control ID of a control for which resources evaluated need to be fetched
resourceId	(string) Specify the unique ID of the resource being evaluated.
connectorId	(string) Specify the unique Id associated with the connector in the user's scope.

### 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

Parameter	Description
projectId	(string) Specify the unique project associated with your Google Cloud Platform subscription.

filter

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`

**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-
11111111111111'
```

**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
}
```

```
}
```

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.

Parameter	Description
projectId	(string) Specify the project Id of a specific account in the user’s scope.
controlId	(string) Specify the control ID of a control for which resources evaluated need to be fetched.
filter	<p>Filter the resources list by providing a query using Qualys syntax.</p> <p>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.</p> <p>Examples:</p> <p>Show resources discovered within certain dates evaluatedOn: [2019-01-01 ... 2019-03-01]</p> <p>Show resources updated starting 2019-01-01, ending 1 month ago evaluatedOn: [2019-01-01 ... now-1m]</p> <p>Show resources updated starting 2 weeks ago, ending 1 second ago</p>

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-
11111111111111111111/resources/50010?pageNo=1&pageSize=50'
```

#### 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": 1,  
"last": true,  
"totalPages": 1,  
"first": true,  
"sort": {  
  "sorted": false,  
  "unsorted": true  
},  
"numberOfElements": 1,  
"size": 100,  
"number": 0  
}
```

# Reports

## 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.

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## 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

Parameter	Description
reportId	Unique identifier associated with every report.

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
}
}
}
}
}
}

```

```
}
],
"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

Parameter	Description
pageNo	(integer) The page to be returned.
pageSize	(integer) The number of records per page to be included in the response.

Sample - Get the list of report configurations

### API request

```
curl -k -X GET -u <username>:<password>
'https://<QualysURL>/cloudview-
api/rest/v1/reports?pageNo=1&pageSize=3'
```

### Response

```
{
  "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

Parameter	Description
reportId	Unique identifier associated with every report.

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

```
{
  "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

Parameter	Description
configurationBody	<p>You need to provide the required details in the configurationBody parameter. The syntax for the same is given below:</p> <p>Syntax:</p> <pre>{   "accounts": [     {       "accountId": "string",       "cloudType": "string",       "id": "string",       "name": "string"     }   ],   "description": "string",   "format": "string",   "mandateId": "string",   "policies": [     {       "cloudType": "string",       "policyId": "string"     }   ],   "title": "string",   "type": "string" }</pre>

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).

**mandateId:** 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

```
curl -X POST --header
-d '{ \
  "title": "Mandate_Report_Public_API", \
  "description": "CCM", \
  "type": "MANDATE", \
  "policies": [{ \
    "policyId": "1b8a3200-dbb3-11e7-b820-0518e3f8c979", \
    "cloudType": "AWS" \
  }, { \
    "policyId": "68dc5320-8677-11e8-9d84-85bffa8e99", \
    "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": "2019-04-04T09:11:58+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

Parameter	Description
reportId	Unique identifier associated with every report.
configurationBody	<p>You need to provide the required details in the configurationBody parameter. The syntax for the same is given below:</p> <p>Syntax:</p> <pre>{   "accounts": [     {       "accountId": "string",       "cloudType": "string",       "id": "string",       "name": "string"     }   ],   "description": "string",   "format": "string",   "mandateId": "string",   "policies": [     {       "cloudType": "string",       "policyId": "string"     }   ],   "title": "string",   "type": "string" }</pre>

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).

**mandateId:** 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": "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": "2019-03-27T09:06:23+0000"
}

```

## Delete Reports

/rest/v1/reports

[DELETE]

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

Input Parameters

Parameter	Description
reportId	Unique identifier associated with every report.

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