



Qualys CloudView v1.x

API Release Notes

Version 1.22.0

March 22, 2022

The Qualys CloudView API provides automation and integration capabilities for your Qualys subscription. You'll find all the details in our user guides, available at the time of release. Just log in to your Qualys account and go to [Help > Resources](#).

What's New

[IaC Evaluations: Get List of Evaluations for IaC](#)

[IaC Evaluations: Get IaC Evaluations for Specified Control](#)

[Update to Get List of Control's Metadata](#)

Qualys API Server URL

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

[Click here](#) to identify your Qualys platform and get the API URL

IaC Evaluations: Get List of Evaluations for IaC

API	/cloudview-api/rest/v1/iac/evaluations
New or Updated APIs	New
Operator	GET

We have now introduced a new API endpoint to fetch the IaC template evaluation data for all the controls. Specify the details such as the cloud provider and repository details where the templates to be evaluated reside. The response then includes all the template evaluations results for the specified repository.

Input Parameters

Parameter	Description
provider	(required) Select the cloud provider from ANY, AWS, AZURE, or GCP. Selecting ANY implies to include IaC evaluations from all the cloud providers that exist in your environment.
source	(required) Select the repository where the IaC templates to be evaluated reside. You can choose from one the options: Azure_Repo, Bitbucket, GitLab, GitHub.
repoName	(required) Name of the repository.
branch	(query) Specify the branch of the repository for which IaC templates needs to be evaluated.
filter	(query) Filter the IaC evaluations by providing a query using Qualys syntax. Click here for help with creating your query.
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 evaluations for IaC

Let us consider an example of fetching evaluations for AWS cloud provider from GitHub source repository.

API request:

```
curl -X GET -u <username>:<password>  
'https://<QualysURL>/cloudview-  
api/rest/v1/iac/evaluations?provider=AWS&source=GitHub&repoName=SampleRep  
oName'
```

Response (XML):

```
{  
  "content": [  
    {  
      "controlName": "Ensure SQS Queue have encryption at rest  
enabled",  
      "policyNames": [  
        "AWS Infrastructure as Code Security Best Practices Policy"  
      ],  
      "criticality": "LOW",  
      "service": "SQS",  
      "result": "FAIL",  
      "controlId": "291",  
      "passedResources": 0,  
      "failedResources": 1  
    },  
    {  
      "controlName": "Ensure SQS policy does not allow ALL (*)  
actions.",  
      "policyNames": [  
        "AWS Infrastructure as Code Security Best Practices Policy"  
      ],  
      "criticality": "HIGH",  
      "service": "SQS",  
      "result": "PASS",  
      "controlId": "317",  
      "passedResources": 1,  
      "failedResources": 0  
    },  
    {  
      "controlName": "Ensure SQS queue policy is not public by only  
allowing specific services or principals to access it",  
      "policyNames": [  
        "AWS Infrastructure as Code Security Best Practices Policy"  
      ],  
      "criticality": "HIGH",  
      "service": "SQS",
```

```
        "result": "PASS",
        "controlId": "382",
        "passedResources": 2,
        "failedResources": 0
    }
],
"pageable": {
    "sort": {
        "sorted": false,
        "empty": true,
        "unsorted": true
    },
    "pageSize": 300,
    "pageNumber": 0,
    "offset": 0,
    "paged": true,
    "unpaged": false
},
"totalPages": 1,
"totalElements": 3,
"last": true,
"number": 0,
"size": 300,
"numberOfElements": 3,
"sort": {
    "sorted": false,
    "empty": true,
    "unsorted": true
},
"first": true,
"empty": false
}

"sort": {
    "sorted": false,
    "unsorted": true,
    "empty": true
},
"numberOfElements": 6,
"first": true,
"size": 6,
"number": 0,
"empty": false
}
}
```

IaC Evaluations: Get IaC Evaluations for Specified Control

API	/cloudview-api/rest/v1/iac/evaluations/control/{controlId}
New or Updated APIs	New
Operator	GET

We have now introduced a new endpoint to fetch the IaC template evaluation data for a specific control. Specify the details such as control ID, repository details where the IaC template to be evaluated reside.

Input Parameters

Parameter	Description
controlId	(required) Specify the control ID of a control for which IaC evaluations need to be fetched.
source	(required) Select the repository where the IaC templates to be evaluated reside. You can choose from one the options: Azure_Repo, Bitbucket, GitLab, GitHub.
repoName	(required) Name of the repository.
branch	(query) Specify the branch of the repository for which IaC templates needs to be evaluated
filter	(query) Filter the IaC evaluations by providing a query using Qualys syntax. Click here for help with creating your query.
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 control id

Let us consider an example of fetching evaluations for CID 291 from GitHub source repository.

API request:

```
curl -X GET -u <username>:<password>  
'https://<QualysURL>/cloudview-  
api/rest/v1/iac/evaluations/control/291?source=GitHub&repoName=SampleRepo  
Name'
```

Response (XML):

```
{  
  "content": [  
    {  
      "entityUniqueId":  
      "GitHub:SampleRepoName:SampleBranchName:/aws_sqs_queue_policy_pass.tf:q:2  
91",  
      "source": "GitHub",  
      "gitrepo": "SampleRepoName",  
      "branch": "SampleBranchName",  
      "status": "FAIL",  
      "firstEvaluated": "2022-03-02T10:17:33.909+00:00",  
      "lastEvaluated": "2022-03-02T10:17:33.909+00:00",  
      "resourceName": "Sample_resource",  
      "resourceId": "q",  
      "filePath": "/aws_sqs_queue_policy_pass.tf",  
      "scanName": "test",  
      "scanUuid": "756f7aef-689d-42a1-bd9c-585218372293",  
      "cid": "291",  
      "customerUuid": "XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX",  
      "templateType": "terraform"  
    }  
  ],  
  "pageable": {  
    "sort": {  
      "sorted": false,  
      "empty": true,  
      "unsorted": true  
    },  
    "pageSize": 1,  
    "pageNumber": 0,  
    "offset": 0,  
    "paged": true,  
    "unpaged": false  
  },  
  "totalPages": 1,  
  "totalElements": 1,  
}
```

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

Update to Get List of Control's Metadata

API	/cloudview-api/rest/v1/controls/metadata/list
New or Updated APIs	Updated
Operator	GET

We have now updated our existing endpoint to support controls that are associated with the QFlows. If a control is associated with a QFlow, the response now includes details about the QFlow.

A QFlow is a logical flow of events, data, and actions to get a specific output like a security control, compliance checks, remediations, or actions that help you to automate the cloud management processes. You can create QFlows using our new application Qualys Flow. To know more, refer to the [QFlow Getting Started Guide](#).

Input Parameters

Parameter	Description
controlId	(required) Specify the ID of a control for which IaC evaluations need to be fetched.
pageNo	(integer) The page to be returned.
pageSize	(integer) The number of records per page to be included in the response.

Sample: Get the metadata for control associated with QFlow

Let us consider an example of fetching evaluations for CID 80005.

API request:

```
curl -X GET -u <username>:<password>  
'https://<QualysURL>/cloudview-  
api/rest/v1/controls/metadata/list?filter=cid%3A80005'
```

Response (XML):

```
<?xml version='1.0' encoding='UTF-8'?>  
<CONTROL_LIST_OUTPUT>  
  <DATETIME>1647866815475</DATETIME>  
  <CONTROL_LIST>  
    <CONTROL>  
      <CID>80005</CID>  
      <CONTROL_NAME>UDC - S3 - *</CONTROL_NAME>  
      <CREATED>2022-03-01T03:59:00+0000</CREATED>  
      <MODIFIED>2022-03-01T03:59:00+0000</MODIFIED>
```



```
<CONTROL_TYPE>User Defined</CONTROL_TYPE>
<PROVIDER>AWS</PROVIDER>
<IS_CUSTOMIZABLE>>true</IS_CUSTOMIZABLE>
<SERVICE_TYPE><![CDATA[S3]]></SERVICE_TYPE>
<CRITICALITY>HIGH</CRITICALITY>
<EVALUATION>
  <EVALUATION_DESCRIPTION/>
  <PASS_MESSAGE/>
  <FAIL_MESSAGE/>
  <EVALUATION_CRITERIA_LIST/>
</EVALUATION>
<RATIONALE><![CDATA[UDC rationale]]></RATIONALE>
<MANUAL_REMEDIATION><![CDATA[UDC
remediation]]></MANUAL_REMEDIATION>
<REFERENCES><![CDATA[UDC references]]></REFERENCES>
<RESOURCE_TYPE>S3 Bucket</RESOURCE_TYPE>
<REMEDIATION_ENABLED>>false</REMEDIATION_ENABLED>
<POLICY_NAME_LIST/>
<EXECUTION_TYPE><![CDATA[Run Time]]></EXECUTION_TYPE>
<QFLOW_BASED>>true</QFLOW_BASED>
<QFLOW_DETAILS>
  <UUID><![CDATA[c1600b35-9aa2-4b57-a569-13a31db0cc17]]></UUID>
  <NAME><![CDATA[UDC - S3 Test]]></NAME>
  <DESCRIPTION><![CDATA[UDC - S3 Test]]></DESCRIPTION>
  <CATEGORY><![CDATA[Security]]></CATEGORY>
  <PARAMETER_LIST>
    <PARAMETER>
      <KEY><![CDATA[s3Name]]></KEY>
      <VALUE><![CDATA[change]]></VALUE>
      <TYPE><![CDATA[string]]></TYPE>
    </PARAMETER>
  </PARAMETER_LIST>
</QFLOW_DETAILS>
</CONTROL>
</CONTROL_LIST>
</CONTROL_LIST_OUTPUT>
```