



Qualys CloudView v2.x

API Release Notes

Version 2.3.0

May 22, 2023

The new version of Qualys CloudView App introduces APIs for Exception management. You can 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

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Qualys API Server URL

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

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

New Exception Management APIs

Exception Management APIs let you create, delete, and view exceptions through APIs. You can also apply tags to evaluations to create exceptions for a list of resources.

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List Evaluations Using Regex

APIs	/rest/v1/<cloudType>/evaluations/list/resources
New or Updated	NEW
Operator	POST

Specify a regular expression to list evaluations with resource ID matching the expression.

Note: To fetch resource IDs with the characters '*' or '/', you must add '\\' in the regex before the characters.

Input Parameters

Parameter	Mandatory/Optional	Data Type	Description
Regex	Mandatory	String	Provide the regular expression to match against Resource IDs.
pageSize	Optional	Integer	The number of records per page to be included in the response.
PageNo	Optional	Integer	The page to be returned.

Sample: Generate a list of evaluations using the regex “.*azure-template-mariadb”

API Request:

```
curl --x "POST" --location "https://<QualysBaseURL>/cloudview-
api/rest/v1/azure/evaluations/list/resources?pageNo=0&pageSize=100000" \
--header 'accept: */*' \
--header 'Authorization: Basic xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx' \
--header 'Content-Type: application/json' \
--data '{
  "regex": ".*azure-template-mariadb"
}'
```

Request Data:

```
{
  "regex": ".*azure-template-mariadb"
}
```

Response:

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

```
    "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "resourceId": "azure-template-mariadb",
    "evaluatedOn": "2023-05-11T07:47:30+0000",
    "status": "PASS",
    "connectorUuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "serviceType": "MARIADB_SERVER",
    "resourceType": "MARIADB_SERVER",
    "resourceName": "azure-template-mariadb",
    "region": "all-region",
    "cid": 50109,
    "controlName": "Ensure Enforce SSL connection is set to ENABLED
for Azure Database for MariaDB server",
    "subscriptionId": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "resourceGroupName": null
  },
  {
    "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "resourceId": "azure-template-mariadb",
    "evaluatedOn": "2023-05-11T07:47:30+0000",
    "status": "FAIL",
    "connectorUuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "serviceType": "MARIADB_SERVER",
    "resourceType": "MARIADB_SERVER",
    "resourceName": "azure-template-mariadb",
    "region": "all-region",
    "cid": 50110,
    "controlName": "Ensure that ssl_minimal_tls_version_enforced
is set to 1.2 for Azure Database for MariaDB server",
    "subscriptionId": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "resourceGroupName": null
  },
  {
    "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "resourceId": "azure-template-mariadb",
    "evaluatedOn": "2023-05-11T07:47:30+0000",
    "status": "FAIL",
    "connectorUuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "serviceType": "MARIADB_SERVER",
    "resourceType": "MARIADB_SERVER",
    "resourceName": "azure-template-mariadb",
    "region": "all-region",
    "cid": 50112,
    "controlName": "Ensure that geo_redundant_backup_enabled is set
to Enabled for Azure Database for MariaDB server",
    "subscriptionId": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "resourceGroupName": null
  },
  {
    "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
```

```
        "resourceId": "azure-template-mariadb",
        "evaluatedOn": "2023-05-11T07:47:30+0000",
        "status": "FAIL",
        "connectorUuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxx",
        "serviceType": "MARIADB_SERVER",
        "resourceType": "MARIADB_SERVER",
        "resourceName": "azure-template-mariadb",
        "region": "all-region",
        "cid": 50113,
        "controlName": "Ensure that Public Network Access is Disabled
for Azure Database for MariaDB server",
        "subscriptionId": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxx",
        "resourceGroupName": null
    }
],
"pageable": {
    "sort": {
        "sorted": false,
        "empty": true,
        "unsorted": true
    },
    "pageSize": 1000000,
    "pageNumber": 0,
    "offset": 0,
    "paged": true,
    "unpaged": false
},
"totalPages": 1,
"totalElements": 4,
"last": true,
"number": 0,
"size": 1000000,
"numberOfElements": 4,
"sort": {
    "sorted": false,
    "empty": true,
    "unsorted": true
},
"first": true,
"empty": false
}
```

Apply Qualys Tags

API	/rest/v1/<cloudType>/evaluations/applyTags
New or Updated	NEW
Operator	POST

Apply Qualys Tags to resources/evaluations of the specified Cloud Provider.

Note:

- To fetch resource IDs with the characters '*' or '/', you must add '\\' in the regex before the characters.
- You must run the apply Qualys Tags API regularly to ensure proper tagging of newly added resources to evaluations or connectors.

Input Parameters

Parameter	Mandatory/Optional	Data Type	Description
Regex	Mandatory	String	Provide the regular expression to match against Resource IDs
tagNames	Mandatory	String	List of tags to be applied to resources and evaluations.

Sample: Apply Tag to Evaluations

API Request:

```
curl --location "https://<QualysBaseURL>/cloudview-
api/rest/v1/azure/evaluations/applyTags?pageNo=0&pageSize=1000000" \
--header 'accept: */*' \
--header 'Authorization: Basic xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx' \
--header 'Content-Type: application/json' \
```

Request Data:

```
{
  "tagNames": [
    "MARIADB_SERVER"
  ],
  "regex": ".*azure-template-mariadb"
}
```

Response:

```
{
  "controlIds": [
    50112,
  ]
}
```

```

        50113,
        50109,
        50110
    ],
    "message": "Tag applied successfully to 4 evaluations"
}

```

Create Exception

API	/rest/v1/exceptions/create
New or Updated	NEW
Operator	POST

Create Exceptions for required scope (RESOURCE, CONNECTOR or QUALYSTAG) and cloud provider.

Note: If you have defined exceptions using all three exception scopes (RESOURCE, CONNECTOR or QUALYSTAG) for one resource, then the exception based on a RESOURCE will take precedence over the other two. In case of exceptions based on CONNECTOR and QUALYSTAG the exception based on a CONNECTOR will take precedence over QUALYSTAG.

Input Parameter

Parameter	Mandatory/Optional	Data Type	Description
cloudType	Mandatory	String	Cloud Provider type (AWS, AZURE, GCP) of the exception.
exceptionScope	Mandatory	String	Scope of exception (RESOURCE,CONNECTOR, QUALYSTAG)
resources	Mandatory, if exception scope is RESOURCE.	String	List of resources containing resources Id, account ID, and region (optional).
name	Mandatory	String	Provide a unique name for the exception.
explanation	Mandatory	String	Provide description of the exception.

startDate	Mandatory	String	Specify the start date in the format YYYY-MM-DD from when the exception starts to be in active state. Note: Start date uses the timezone as configured in the Administration module. If it is not configured in Administration module, the default time zone is UTC.
endDate	Mandatory	String	Specify the last date in the format YYYY-MM-DD from when the exception is expired. Note: The end date uses the timezone as configured in the Administration module. If it is not configured in Administration module, the default time zone is UTC.
resourceTagNames	Mandatory, if exception scope is QUALYSTAG	String	Provide a comma-separated list of tag names for resources to be exempted under QUALYSTAG scope
isAllConnector	Mandatory, if exception scope is QUALYSTAG.	String	Provide the boolean to determine whether to consider all connectors for QUALYSTAG Scope. Values can be "true", "false"
accountId	- In case of CONNECTOR as an exception scope, it is mandatory. - In case of QualysTAG as an exception scope, it is mandatory if both the following conditions are true <ul style="list-style-type: none"> • isAllConnector is False • connectorTagNames are empty. 	String	Provide comma separated list of Unique identifier(s) of the cloud provider. Account Id for AWS, Subscription Id for AZURE, Project Id for GCP.
connectorTagNames	Mandatory if exception scope is QUALYSTAG and accountIds are empty	String	Provide a comma-separated list of tag names. These tags are used to search for connectors under the QUALYSTAG scope.

controlIds	Mandatory	Integer	Provide a comma-separated list of control IDs to create exceptions.
exceptionReason	Mandatory	String	Choose the reason for the exception: False Positive, Risk Accepted, Other
informationSecurityPolicy	Optional	String	Specify the policy for which the exception is created for.
informationSecurityProcedure	Optional	String	Specify the procedure for which the exception is created for.

Sample: Create Exceptions for the Scope Resources

API Request:

```
curl --location "https://<QualysBaseURL>/cloudview-  
api/rest/v1/exceptions/create  
--header 'Content-Type: application/json' \  
--header 'Authorization: Basic xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx' \  

```

Request Data:

```
{  
  "cloudType": "AWS",  
  "exceptionScope": "RESOURCE",  
  "name": "AWS Resource Level Demo",  
  "explanation": "AWS Exception",  
  "startDate": "2023-05-23",  
  "endDate": "2023-05-30",  
  "exceptionReason": "False Positive",  
  "resources": [  
    {  
      "resourceId": "i-08blecxxxxx26f756",  
      "accountId": "95xxxxxxxx75"  
    }  
  ],  
  "controlIds": [  
    322  
  ],  
  "informationSecurityPolicy": "",  
  "informationSecurityProcedure": ""  
}
```

Response:

```
{  
  "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",  
  "exceptionName": "AWS Resource Level Demo",  
  "state": "ACTIVE"  
}
```

Sample: Create Exceptions for the scope Connector

API Request:

```
curl --location "https://<QualysBaseURL>/cloudview-  
api/rest/v1/exceptions/create'\  
--header 'Content-Type: application/json' \  
--header 'Authorization: Basic xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx' \  

```

Request Data:

```
{  
  "cloudType": "AWS",  
  "exceptionScope": "CONNECTOR",  
  "name": "AWS Demo Connector Level",  
  "explanation": "AWS Connector Level Exception",  
  "startDate": "2023-05-23",  
  "endDate": "2023-05-30",  
  "exceptionReason": "False Positive",  
  "accountIds": [  
    "9513xxxxxx75"  
  ],  
  "controlIds": [  
    1  
  ],  
  "informationSecurityPolicy": "",  
  "informationSecurityProcedure": ""  
}
```

Response:

```
{  
  "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",  
  "exceptionName": "AWS Demo Connector Level",  
  "state": "ACTIVE"  
}
```

Sample: Create Exceptions for the scope QualysTag

API Request:

```
curl --location "https://<QualysBaseURL>/cloudview-  
api/rest/v1/exceptions/create'\  
--header 'Content-Type: application/json' \  
--header 'Authorization: Basic xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx' \  

```

Request Data:

```
{  
  "cloudType": "AWS",  
  "exceptionScope": "QUALYSTAG",  
  "name": "AWS DEMO Exception",  
  "explanation": "AWS PM Demo Exception",  
  "startDate": "2023-05-23",  
  "endDate": "2023-05-30",  
  "resourceTagNames": [  
    "DEMO_TAG"  
  ],  
  "isAllConnector": "False",  
  "accountIds": [  
    "951xxxxxxx75"  
  ],  
  "connectorTagNames": [  
    "Test_TAG"  
  ],  
  "controlIds": [  
    289,  
    41,  
    42  
  ],  
  "exceptionReason": "False Positive",  
  "informationSecurityPolicy": "",  
  "informationSecurityProcedure": ""  
}
```

Response:

```
{  
  "uuid": "903fb01f-xxxx-318a-xxxx-b806fbxxxxa8a",  
  "exceptionName": "AWS DEMO Exception",  
  "state": "ACTIVE"  
}
```

List Exceptions

API	/rest/v1/exceptions/list
New or Updated	NEW
Operator	GET

List all the exceptions created through API or UI. Use filters to narrow down your search. You can use the filters based on the tokens like exception.provider, exception.reason, exception.status, exception.name, exception scope, account.id, subscriptionId, projectId, cid, exception.scope, resource.id, resource.accountId, resource.subscriptionId, resource.projectId, qflow.id, qflow.name for more details of tokens refer to the [Online help](#).

Input Parameters

Parameter	Mandatory/Optional	Data Type	Description
filter	Optional	String	Filter the exception list by providing a query using Qualys syntax. Refer to the Online help for assistance with creating your query. For example - exception.scope:QUALYSTAG
pageSize	Optional	Integer	The number of records per page to be included in the response.
PageNo	Optional	Integer	The page to be returned.
sort	Optional	keyword	Sort the results using a Qualys token. The endingDate and UpdatedOn are sortable filters.

Sample: List All Exceptions

API Request:

```
curl --location 'https://<QualysBaseURL>/cloudview-api/rest/v1/exceptions/list?filter=exception.scope%3ACONNECTOR&pageNo=0&pageSize=50&sort=endingDate%3Aasc' \
--header 'Authorization: Basic xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx' \
```

Response:

```
{
  "content": [
    {
      "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",

```

```
"name":"AWS Connector Level",
"description":"AWS Connector Level Exception",
"reason":"False Positive",
"state":"EXPIRED",
"startingDate":"2023-05-05T00:00:00+0000",
"endingDate":"2023-05-10T23:59:59+0000",
"createdBy":"","
"updatedBy":"","
"createdOn":"2023-05-05T08:54:27+0000",
"updatedOn":"2023-05-05T08:54:27+0000",
"scope":"CONNECTOR"
},
{
  "uuid":"xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxxxx",
  "name":"AWS Connector Level 1",
  "description":"AWS Connector Level Exception",
  "reason":"False Positive",
  "state":"EXPIRED",
  "startingDate":"2023-05-04T00:00:00+0000",
  "endingDate":"2023-05-10T23:59:59+0000",
  "createdBy":"","
  "updatedBy":"","
  "createdOn":"2023-05-04T08:56:41+0000",
  "updatedOn":"2023-05-04T08:56:41+0000",
  "scope":"CONNECTOR"
},
{
  "uuid":"xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxxxx",
  "name":"AWS Connector Level 2",
  "description":"AWS Connector Level Exception",
  "reason":"False Positive",
  "state":"EXPIRED",
  "startingDate":"2023-05-04T00:00:00+0000",
  "endingDate":"2023-05-10T23:59:59+0000",
  "createdBy":"","
  "updatedBy":"","
  "createdOn":"2023-05-04T09:00:41+0000",
  "updatedOn":"2023-05-04T09:00:41+0000",
  "scope":"CONNECTOR"
},
{
  "uuid":"xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxxxx",
  "name":"AWS Connector Level Sub User",
  "description":"AWS Connector Level Exception",
  "reason":"False Positive",
  "state":"ACTIVE",
  "startingDate":"2023-05-12T00:00:00+0000",
  "endingDate":"2023-05-20T23:59:59+0000",
  "createdBy":"","
```

```
        "updatedBy": "",
        "createdOn": "2023-05-12T10:24:08+0000",
        "updatedOn": "2023-05-12T10:24:08+0000",
        "scope": "CONNECTOR"
    },
    {
        "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
        "name": "Azure Connector Level 2",
        "description": "AZURE Connector Level Exception",
        "reason": "False Positive",
        "state": "ACTIVE",
        "startingDate": "2023-05-16T00:00:00+0000",
        "endingDate": "2023-05-20T23:59:59+0000",
        "createdBy": "",
        "updatedBy": "",
        "createdOn": "2023-05-16T06:37:27+0000",
        "updatedOn": "2023-05-16T06:37:27+0000",
        "scope": "CONNECTOR"
    }
],
"pageable": {
    "sort": {
        "sorted": false,
        "empty": true,
        "unsorted": true
    },
    "pageSize": 50,
    "pageNumber": 0,
    "offset": 0,
    "paged": true,
    "unpaged": false
},
"totalPages": 1,
"totalElements": 5,
"last": true,
"number": 0,
"size": 50,
"numberOfElements": 5,
"sort": {
    "sorted": false,
    "empty": true,
    "unsorted": true
},
"first": true,
"empty": false
}
```

Get Exception Details

API	/rest/v1/exceptions/{exceptionId}
New or Updated	NEW
Operator	GET

Get full details of the exception for the provided exception ID.

Input Parameters

Parameter	Mandatory/Optional	Data Type	Description
exceptionId	Mandatory	String	Provide the exception ID to view full details.

Sample: Get Exception Details of the Specified ID

API Request:

```
curl --location "https://<QualysBaseURL>/cloudview-
api/rest/v1/exceptions/{exceptionId}
--header 'Authorization: Basic xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx'
```

Response:

```
{
  "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
  "name": "Azure Resource Level",
  "description": "AZURE Exception",
  "reason": "Other",
  "startDate": "2023-05-09T18:30:00+0000",
  "endDate": "2023-05-21T18:29:59+0000",
  "createdBy": "",
  "updatedBy": "",
  "referenceDocLink": "",
  "createdOn": "2023-05-08T11:03:07+0000",
  "updatedOn": "2023-05-09T08:20:21+0000",
  "state": "ACTIVE",
  "exceptionSummary": {
    "exceptionScope": "RESOURCE",
    "resourceTagNames": [],
    "connectorTagNames": [],
    "connectors": [],
    "resources": [
      {
        "serviceType": "RESOURCE_GROUP",
        "resourceType": "RESOURCE_GROUP",
        "resourceId": "/subscriptions/xxxxxxxx-xxxx-xxxx-xxxx-
```



```
xxxxxxxxxxxxx"/resourceGroups/exceptiontest1",
    "account": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxx",
    "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxx"
  }
],
"controls": [
  {
    "criticality": "MEDIUM",
    "name": "Ensure that Resource Locks are set for Mission-
Critical Azure Resources",
    "id": "50036"
  }
],
"provider": "AZURE"
}
}
```

Delete Exceptions

API	/rest/v1/exceptions/delete
New or Updated	NEW
Operator	DELETE

Delete exceptions created through API or UI.

Input Parameters

Parameter	Mandatory/Optional	Data Type	Description
exceptionId	Mandatory	String	Provide the exception ID to delete the exception.

Sample: Delete an Exception

API Request:

```
curl --location <"https://<QualysURL>/cloudview-
api/rest/v1/exceptions/delete"
--header 'Content-Type: application/json' \
--header 'Authorization: Basic xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx' \
```

Request Data:

```
[
  "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx"
]
```

Response:

204 (status code) in case of success