



Qualys TotalCloud v2.x

API Release Notes

Version 2.6.0

October 04, 2023

The new version of Qualys TotalCloud App introduces new APIs and updates to existing APIs for Exception management and Reports. 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

Get Evaluations Using Regex

APIs	/rest/v1/{cloudType}/evaluations/list/resources
New or Updated	Updated
Operator	POST

We have introduced two new parameters to the Get Evaluations API. You can now further narrow down your search results by specifying the account ID or resource type of the evaluation.

The Regex is still mandatory to get evaluations.

Input Parameters

Parameter	Required/Optional/Default	Description
accountId	Optional	Unique identifier(s) of the cloud provider. Account Id for AWS, Subscription Id for Azure, Project Id for GCP.
resourceTypes	Optional	Provide the resource type of the evaluation. AWS Resource Types: AUTO_SCALING_GROUP, BUCKET, EBS, EC2_INSTANCE, EKS_CLUSTER, EKS_FARGATE_PROFILE, EKS_NODEGROUP, IAM_USER, INTERNET_GATEWAY, LAMBDA, LOAD_BALANCER, NETWORK_ACL, RDS, ROUTE_TABLE, SUBNET, VPC, VPC_SECURITY_GROUP Azure Resource Types: FUNCTION_APP, NETWORK_SECURITY_GROUP, RESOURCE_GROUP, SQL_SERVER, SQL_SERVER_DATABASE, VIRTUAL_MACHINE, VIRTUAL_NETWORK, WEB_APP GCP Resource Types: CLOUD_FUNCTION, FIREWALL_RULES, NETWORK, SUBNETWORK, VM_INSTANCE

Sample: Generate a list of evaluations using a regexAPI Request:

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

Request Data:

```
{
  "regex": ".*xxxxxxxxxxxxx.*",
  "accountIds": [
    "xxxxxxxxxxxxx"
  ],
  "resourceTypes": [
    "LAMBDA"
  ]
}
```

Response:

```
{
  "content": [
    {
      "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxxxx",
      "resourceId": "arn:aws:lambda:us-east-
1:xxxxxxxxxxxxx:function:qualys-util-aws-sdk-wrapper",
      "evaluatedOn": "2023-08-21T23:52:09+0000",
      "status": "FAIL",
      "connectorUuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxxxx",
      "serviceType": "LAMBDA",
      "resourceType": "LAMBDA",
      "resourceName": "arn:aws:lambda:us-east-
1:xxxxxxxxxxxxx:function:qualys-util-aws-sdk-wrapper",
      "region": "us-east-1",
      "cid": 344,
      "controlName": "Ensure that AWS Lambda function is configured
for a Dead
Letter Queue (DLQ)",
      "accountId": "xxxxxxxxxxxxx"
    },
    {
      "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxxxx",
      "resourceId": "arn:aws:lambda:ap-northeast-
1:xxxxxxxxxxxxx:function:22966-tokyo-lambda",
      "evaluatedOn": "2023-08-21T14:56:29+0000",
      "status": "PASS",
```

```

        "connectorUuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
        "serviceType": "LAMBDA",
        "resourceType": "LAMBDA",
        "resourceName": "arn:aws:lambda:ap-northeast-
1:xxxxxxxxxxxx:function:22966-tokyo-lambda",
        "region": "ap-northeast-1",
        "cid": 107,
        "controlName": "Ensure that AWS Lambda excess Permissions are
removed",
        "accountId": "xxxxxxxxxxxx"
    },
    {
        "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
        "resourceId": "arn:aws:lambda:us-east-
1:xxxxxxxxxxxx:function:Test123",
        "evaluatedOn": "2023-08-21T14:56:43+0000",
        "status": "PASS",
        "connectorUuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
        "serviceType": "LAMBDA",
        "resourceType": "LAMBDA",
        "resourceName": "arn:aws:lambda:us-east-
1:xxxxxxxxxxxx:function:Test123",
        "region": "us-east-1",
        "cid": 107,
        "controlName": "Ensure that AWS Lambda excess Permissions are
removed",
        "accountId": "xxxxxxxxxxxx"
    },
    {
        "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
        "resourceId": "arn:aws:lambda:us-east-
1:xxxxxxxxxxxx:function:dsfdfsfs454545",
        "evaluatedOn": "2023-08-21T23:06:14+0000",
        "status": "FAIL",
        "connectorUuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
        "serviceType": "LAMBDA",
        "resourceType": "LAMBDA",
        "resourceName": "arn:aws:lambda:us-east-
1:xxxxxxxxxxxx:function:dsfdfsfs454545",
        "region": "us-east-1",
        "cid": 442,
        "controlName": "Ensure that your Amazon Lambda functions are
configured
to use enhanced monitoring",
        "accountId": "xxxxxxxxxxxx"
    },
    {
        "uuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
        "resourceId": "arn:aws:lambda:us-east-

```

```

1:xxxxxxxxxxxxx:function:asdasdd9090",
    "evaluatedOn": "2023-08-21T23:07:04+0000",
    "status": "FAIL",
    "connectorUuid": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxx",
    "serviceType": "LAMBDA",
    "resourceType": "LAMBDA",
    "resourceName": "arn:aws:lambda:us-east-
1:xxxxxxxxxxxxx:function:asdasdd9090",
    "region": "us-east-1",
    "cid": 442,
    "controlName": "Ensure that your Amazon Lambda functions are
configured
to use enhanced monitoring",
    "accountId": "xxxxxxxxxxxxx"
  }
],
"pageable": {
  "sort": {
    "sorted": false,
    "empty": true,
    "unsorted": true
  },
  "pageSize": 5,
  "pageNumber": 0,
  "offset": 0,
  "paged": true,
  "unpaged": false
},
"totalPages": 48,
"totalElements": 238,
"last": false,
"number": 0,
"size": 5,
"numberOfElements": 5,
"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

We have introduced two new parameters to the Apply Qualys Tags API. You can now further narrow down the evaluations to tag by specifying the account ID or resource type of the evaluation.

Input Parameters

Parameter	Required/Optional/Default	Description
regex	Required	Provide the regular expression to match against Resource IDs.
tagNames	Required	List of tags to be applied to resources and evaluations

Sample: Apply Test Tag to Evaluations

API Request:

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

Request Data:

```
{
  "tagNames": [
    "CLV-ALL"
  ],
  "regex": ".*postgresql.*",
  "accountIds": [
    "xxxxxxxxxxxxx"
  ],
  "resourceTypes": [
    "RDS_SNAPSHOT"
  ]
}
```

Response:

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

```

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

```

Update Exception

API	/rest/v1/exceptions/{UUID}
New or Updated	New
Operator	PUT

We have introduced an API to update the details of an exception. You cannot change the values of cloudType , exception scope, and exception name.

Input Parameters

Parameter	Mandatory/Optional/Default	Description
accountId	Optional	Unique identifier(s) of the cloud provider. Account Id for AWS, Subscription Id for Azure, Project Id for GCP.
connectorTagNames	Optional	Tag Names using which connectors will be searched under QUALYSTAG scope.
controlIds	Optional	Control IDs to update exceptions for.
explanation	Optional	Description of the exception.
startDate	Optional	Date from when the exception starts to be valid.
endDate	Optional	Last date till the exception is valid.
exceptionReason	Optional	Reason for the exception. Choose among three options: False Positive, Risk Accepted, Other
InformationSecurityPolicy	Optional	Specify the policy for which the exception is created for.
InformationSecurityProcedure	Optional	Specify the procedure for which the exception is created for.

Parameter	Mandatory/Optional/Default	Description
isAllConnector	Optional	Boolean to determine whether to consider all connectors for QUALYSTAG Scope.
resources	Optional	List of resources containing resources Id, account id, and region.
resourceTagNames	Optional	Tag names for resources to be exempted under QUALYSTAG scope

Sample: Update ControlIDs of an ExceptionAPI Request:

```
curl --location --request PUT '<QualysBaseUrl/cloudview-
api/rest/v1/exceptions/xxxxxxx-xxxx-xxxx-xxx-xxxxxxxxxxxxx'
\
--header 'Content-Type: application/json' \
--header 'Authorization: Basic xxxxxxxxxxxxxxxxxxxxxxxxxxxx' \ \
```

Request Data:

```
{
  "controlIds": [
    "1",
    "2",
    "3"
  ]
}
```

Response:

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

Remove Qualys Tags

API	/rest/v1/{cloudType}/evaluations/removeTags
New or Updated	NEW
Operator	POST

We have introduced an API to remove Qualys Tags from 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.

Input Parameters

Parameter	Required/Optional/Default	Description
Regex	Required	Provide the regular expression to match against Resource IDs
accountid	Optional	Unique identifier(s) of the cloud provider. Account Id for AWS, Subscription Id for Azure, Project Id for GCP.

Parameter	Required/Optional/Default	Description
resourceTypes	Optional	Provide the resource type of the evaluation to remove tags. AWS Resource Types: AUTO_SCALING_GROUP, BUCKET, EBS, EC2_INSTANCE, EKS_CLUSTER, EKS_FARGATE_PROFILE, EKS_NODEGROUP, IAM_USER, INTERNET_GATEWAY, LAMBDA, LOAD_BALANCER, NETWORK_ACL, RDS, ROUTE_TABLE, SUBNET, VPC, VPC_SECURITY_GROUP Azure Resource Types: FUNCTION_APP, NETWORK_SECURITY_GROUP, RESOURCE_GROUP, SQL_SERVER, SQL_SERVER_DATABASE, VIRTUAL_MACHINE, VIRTUAL_NETWORK, WEB_APP GCP Resource Types: CLOUD_FUNCTION, FIREWALL_RULES, NETWORK, SUBNETWORK, VM_INSTANCE
tagNames	Required	List of tags to be applied to resources and evaluations

Sample: Remove Test Tag from EvaluationsAPI Request:

```
curl --location '<QualysBaseUrl>/cloudview-
api/rest/v1/aws/evaluations/removeTags' \
--header 'accept: */*' \
--header 'Authorization: Basic xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx' \
--header 'Content-Type: application/json' \
--header 'Cookie: NSC_wt-q19-qpsubm-
80=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx' \
```

Request Data:

```
{
  "tagNames": [
    "Tag_1"
  ],
  "regex": ".*rds:clvqardsdb-2023-08-21-09-43.*",
  "accountIds": [
    "xxxxxxxxxxxxx"
  ],
  "resourceTypes": [
    "RDS_SNAPSHOT"
  ]
}
```

Response:

Tag removed successfully from 2 evaluations.

Get List of All Policies

API	/rest/v1/reports/policies
New or Updated	Updated
Operator	GET

We have updated the Get Policies API by introducing a new parameter called `executionType`. The `executionType` parameter lets you search for Run Time or Build Time policies in your account.

Input Parameters.

Parameter	Required/Optional/Default	Description
<code>executionType</code>	Optional	Specify the execution type for which you want to fetch all the supported policies. You could mention <code>RUN_TIME</code> or <code>BUILD_TIME</code> .

Sample - Get the list of all the supported RUN_TIME policies for Azure

API Request:

```
curl -n -u "USERNAME:PASSWORD" -X "GET" 'https://<QualysBaseUrl>/cloudview-api/rest/v1/reports/policies?cloudType=AZURE&executionType=RUN_TIME'
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Response:

```
[
  {
    "id": "df3597f0-xxxx-xxxxx-xxxx-23c5141152bc",
    "title": "CIS Microsoft Azure Foundations Benchmark",
    "cloudType": "AZURE"
  },
  {
    "id": "f9e43730-xxxx-xxxxx-xxxx-5b1aa4c88a83",
    "title": "Azure Database Service Best Practices Policy",
    "cloudType": "AZURE"
  },
  {
    "id": "44441240-xxxx-xxxxx-xxxx-4d1356013529",
    "title": "Azure Function App Best Practices Policy",
    "cloudType": "AZURE"
  },
  {
```

```
    "id": "e6d7e9d0-xxxx-xxxxx-xxxx-2f0d02006ccb",
    "title": "Azure Best Practices Policy",
    "cloudType": "AZURE"
  },
  {
    "id": "e48922a0-xxxx-xxxxx-xxxx-a7c52eacc973",
    "title": "Policy",
    "cloudType": "AZURE"
  }
]
Response Code: 200
```