Qualys Container Security v1.x

API Release Notes

Version 1.14

February 9, 2022

Qualys Container Security API gives you many ways to integrate your programs and API calls with Qualys capabilities.

What's New

AWS US GovCloud Registry Support

CRS API: Filter by Name Now Supported for Get Policies

Qualys API URL

Container Security supports both API server URLs and API gateway URLs for API requests.

The Qualys API server or gateway 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

This documentation uses the API URL for Qualys US Platform 2 (https://gateway.qg2.apps.qualys.com) in sample API requests. If you're on another platform, please replace this URL with the appropriate server URL for your account.

AWS US GovCloud Registry Support

Now users are able to create and scan AWS GovCloud based registries. We've added API support for new US GovCloud regions and credentials.

We've also introduced a new input parameter for AWS account type so you can easily distinguish between US GovCloud registries and Global AWS registries. For connectors created prior to this release, the account type value is null.

You'll specify the account type as US_Gov or Global when creating an AWS connector, when validating AWS registry parameters and when creating/updating an AWS registry. You'll see the account type value in the API Response when you fetch details for an AWS connector. The account type will be fetched as part of the AWS credentials. When the account type is US_Gov, US GovCloud credentials are used. When the account type is Global or null, Global AWS credentials are used.

New API

Fetch AWS US GovCloud account ID and external ID

Updated APIs

Create a new AWS connector

Validate registry parameters

Create AWS registry

Update AWS registry

Fetch registry details

Fetch a list of AWS connectors in your account

Fetch a list of AWS connectors for a certain account ID

Fetch AWS US GovCloud account ID and external ID

/v1.3/registry/aws-gov-base

[GET]

Use this API to get your AWS US GovCloud account ID and external ID.

API request:

```
curl -X GET 'https://gateway.qg2.apps.qualys.com/csapi/v1.3/registry/aws-gov-base' --header 'Authorization: Bearer <token>'
```

Response:

```
{
"accountId": "12345678xxxx",
"externalId": 12345xxxx
}
```

Create a new AWS connector

/v1.3/registry/aws/connector

[POST]

Use this API to create a new AWS connector. We added the new input parameter accountType, which is required.

Input Parameters:

Parameter	Description
arn	ARN number of the account ID.
externalId	The externalId of your organization.
name	Connector name.
accountType	Specify the AWS account type as Global or US_Gov.
description	(Optional) Connector description.

API request:

```
curl -X POST
'https://gateway.qg2.apps.qualys.com/csapi/v1.3/registry/aws/connector' -d '{"arn":"arn:aws:iam::205767712438:role/abcd",
"externalId":"903805594", "name":"TestAWS", "accountType":"US_Gov",
"description":"My AWS account"}' --header 'Authorization: Bearer <token>'
```

Response:

```
response code 200
```

Validate registry parameters

/v1.3/registry/validate

[POST]

Use this API to validate parameters for a registry you intend to create. You can validate if a registry already exists, whether AWS/Azure/GCP account ID exists, if the credentials provided are correct, and so on. We added the new input parameter accountType, which is required.

Input Parameters:

AWS specific parameters are shown below. See the Container Security API User Guide for a description of all input parameters.

Parameter	Description
AWS	
accountId	Provide the AWS account Id if your registry will be hosted on AWS. Parameters accountId, arn, and region are required when the registryType is AWS ECR and you want to create a new AWS connector.
arn	ARN number of the account ID. Specify the ARN if you want to use an existing AWS connector, or if you want to create a new connector.
region	Region where your AWS account belongs.
accountType	Specify the AWS account type as Global or US_Gov.

API request:

```
curl -X POST
'https://gateway.qg2.apps.qualys.com/csapi/v1.3/registry/validate' -d
'{"aws": {"accountId":"383031258652",
"arn":"arn:aws:iam::383031258652:role/testabcd", "region":"us-east-2",
"accountType":"Global"}, "credentialType":"AWS", "registryType":"AWS",
"registryUri":"https://383031258652.dkr.ecr.us-east-2.amazonaws.com"}' --
header 'Authorization: Bearer <token>'
```

Response:

```
response code 200
```

Create AWS registry

/v1.3/registry

[POST]

Use this API to create a new registry. We added the new input parameter accountType, which is required.

Input Parameters:

AWS specific parameters are shown below. See the Container Security API User Guide for a description of all input parameters.

Parameter	Description
AWS	
accountId	Provide the AWS account Id if your registry will be hosted on AWS. Parameters accountId, arn, and region are required when the registryType is AWS ECR and you want to create a new AWS connector.
arn	ARN number of the account ID. Specify the ARN if you want to use an existing AWS connector, or if you want to create a new connector.
region	Region where your AWS account belongs. Be sure to specify a GovCloud region when using accountType US_Gov.
accountType	Specify the AWS account type as Global or US_Gov.

API request:

```
curl -X POST 'https://gateway.qg2.apps.qualys.com/csapi/v1.3/registry' -d
'{"aws": {"accountId":"383031258652",
"arn":"arn:aws:iam::383031258652:role/testabcd", "region":"us-east-2",
"accountType":"Global"}, "credentialType":"AWS", "registryType":"AWS",
"registryUri":"https://383031258652.dkr.ecr.us-east-2.amazonaws.com"}' --
header 'Authorization: Bearer <token>'
```

Response:

```
{"registryUuid":"95b715e0-0fc7-4dac-b4de-2e1b92fc527d"}

Response Code: 200
```

Update AWS registry

/v1.3/registry/{registryId}

[PUT]

Use this API to update an existing registry. We added the new input parameter accountType, which is required.

Input Parameters:

Parameter	Description
AWS	
accountId	Provide the AWS account Id if your registry is hosted on AWS. Parameters accountId, arn, and region are required when the registryType is AWS ECR and you want to update an AWS connector.
arn	ARN number of the account ID. Specify the ARN if you want to use an existing AWS connector, or if you want to create a new connector.
region	Region where your AWS account belongs. Be sure to specify a GovCloud region when using accountType US_Gov.
accountType	Specify the AWS account type as Global or US_Gov.

API request:

```
curl -X PUT
'https://gateway.qg2.apps.qualys.com/csapi/v1.3/registry/b994c2e6-8961-
4133-a889-662d8cf52310' -d '{"aws": {"accountId":"383031258652",
"arn":"arn:aws:iam::383031258652:role/testabcd", "region":"us-east-2",
"accountType":"Global"}, "credentialType":"AWS", "registryType":"AWS",
"registryUri":"https://383031258652.dkr.ecr.us-east-2.amazonaws.com"}' --
header 'Authorization: Bearer <token>'
```

Response:

```
Returns the same registry ID with response code 200.
```

Fetch registry details

/v1.3/registry/{registryId}

[GET]

Use this API to fetch details for a registry in your account. You'll see the new AWS GovCloud regions in the output, when applicable. In the following sample, the registry type is "AWS" and the AWS region is "us-gov-west-1".

Input Parameters:

Parameter	Description
registryId={value}	(Required) The ID/UUID of the registry for which you want to fetch the details.

API request:

```
curl -X GET
'https://gateway.qg2.apps.qualys.com/csapi/v1.3/registry/1ad23456-789f-
0a12-3456-78bd901a2e34' --header 'Authorization: Bearer <token>'
```

Response:

```
{
  "data": [
    {
      "registryUuid": "1ad23456-789f-0a12-3456-78bd901a2e34",
      "registryUri": "https://123456789012.dkr.ecr.us-gov-west-
1.amazonaws.com",
      "registryType": "AWS",
      "repoCount": 1,
      "totalImages": 1,
      "totalScannedImages": 1,
      "totalVulnerableImages": 0,
      "lastScanned": "1642527390097",
      "scheduleStatusList": {
        "Finished": 1
      },
      "created": "1642527260574",
      "updated": "1642527260574",
      "dockerHubOrg": null,
      "providerType": "AWS",
      "awsAccountId": "123456789012",
      "awsRegion": "us-gov-west-1",
      "gcpProjectId": null,
      "acrConnectorId": null
    }
  ],
```

```
  "count": 1
}
```

Fetch a list of AWS connectors in your account

/v1.3/registry/aws/connectors

[GET]

Use this API to get a list of AWS connectors to help you create a registry. You'll now see accountType (Global, US_Gov, null) for each connector in the API response.

API request:

```
curl -X GET
'https://gateway.qg2.apps.qualys.com/csapi/v1.3/registry/aws/connectors'
--header 'Authorization: Bearer <token>'
```

Response:

```
[
  {
    "name": "AWSC1",
    "arn": "arn:aws:iam::205767712438:role/abcd",
    "description": "AWS connector 1"
    "accountType": "Global"
  },
  {
    "name": "AWSC2",
    "arn": "arn:aws:iam::383031258652:role/testabcd",
    "description": "AWS connector 2"
    "accountType": "US_Gov"
  }
]
```

Fetch a list of AWS connectors for a certain account ID

/v1.3/registry/aws/connectors/{accountId}

[GET]

Use this API to get a list of AWS connectors for an account ID to help you create a registry. You'll now see accountType (Global, US_Gov, null) for each connector in the API response.

Input Parameters:

Parameter	Description
accountId	Provide the AWS account Id to get a list of connectors.

API request:

```
curl -X GET
'https://gateway.qg2.apps.qualys.com/csapi/v1.3/registry/aws/connectors/1
23456789012' --header 'Authorization: Bearer <token>'
```

Response:

```
[
  {
    "name": "AWSC1",
    "arn": "arn:aws:iam::123456789012:role/abcd",
    "description": "AWS connector 1"
    "accountType": "Global"
  },
  {
    "name": "AWSC2",
    "arn": "arn:aws:iam::123456789012:role/testabcd",
    "description": "AWS connector 2"
    "accountType": "Global"
  }
]
```

CRS API: Filter by Name Now Supported for Get Policies

Now when you run the Get Policies API you can filter the API response by policy name. Specify the filter input parameter with a search query using name as part of your API request. Note that the search is case sensitive.

Get all policies in your account

/csapi/v1.3/runtime/policies

[GET]

Input Parameters:

The new "filter" input parameter is described below. See the Container Runtime Security API Guide for a description of all input parameters.

Parameter	Description
filter	Specify a string value for a search query to filter the list of policies returned in the output. Only name is supported in filter query. For example, enter filter=name:Default to return policies with "Default" in the name. The search is case sensitive. Double quotes can be used when your search value contains more than one word, such as filter=name:"Test Policy".

API Sample

In this sample, we're filtering the list of policies to only show policies with "Deny" in the policy name.

API request:

```
curl --location --request GET
'https://gateway.qg1.apps.qualys.com/csapi/v1.3/runtime/policies?filter=n
ame:Deny' \
--header 'Authorization: Bearer <token>'
```

Response:

```
[
   {
      "id": "5e171bef8530d7000151408e",
      "name": "Deny Write Static Website Files",
      "created": "2020-01-09T12:26:23.496Z",
      "updated": "2020-01-09T12:26:23.496Z",
      "description": "This sample policy prevents static website files
from being altered",
      "policyMode": "ACTIVE"
```

```
   },
   {
      "id": "5e171c738530d70001514091",
      "name": "Deny cat command access to /etc/passwd file",
      "created": "2020-01-09T12:28:35.761Z",
      "updated": "2020-01-09T12:28:35.761Z",
     "description": "This sample policy denies access to /etc/passwd file
from program cat",
      "policyMode": "ACTIVE"
   },
...
]
```