



# Qualys Container Security v1.x

## API Release Notes

Version 1.4

October 09, 2018

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

### What's New

[Registry API](#)

[APIs to delete Sensors, Images and Containers](#)

[Vulnerability age in vulnerability details](#)

### URL to the Qualys API Server

Qualys maintains multiple Qualys platforms. The Qualys API server URL that you should use for API requests depends on the platform where your account is located.

| Account Location        | Platform URL                                                                                  |
|-------------------------|-----------------------------------------------------------------------------------------------|
| Qualys US Platform 1    | <a href="https://qualysguard.qualys.com">https://qualysguard.qualys.com</a>                   |
| Qualys US Platform 2    | <a href="https://qualysguard.qg2.apps.qualys.com">https://qualysguard.qg2.apps.qualys.com</a> |
| Qualys US Platform 3    | <a href="https://qualysguard.qg3.apps.qualys.com">https://qualysguard.qg3.apps.qualys.com</a> |
| Qualys EU Platform 1    | <a href="https://qualysguard.qualys.eu">https://qualysguard.qualys.eu</a>                     |
| Qualys EU Platform 2    | <a href="https://qualysapi.qg2.apps.qualys.eu">https://qualysapi.qg2.apps.qualys.eu</a>       |
| Qualys India Platform 1 | <a href="https://qualysguard.qg1.apps.qualys.in">https://qualysguard.qg1.apps.qualys.in</a>   |

## Registry API

|                     |                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APIs affected       | <a href="#">/csapi/v1.1/registry</a><br><a href="#">/csapi/v1.1/registry/validate</a><br><a href="#">/csapi/v1.1/registry/{registryId}</a><br><a href="#">/csapi/v1.1/registry/{registryId}/repository</a><br><a href="#">/csapi/v1.1/registry/{registryId}/schedule</a><br><a href="#">/csapi/v1.1/registry/{registryId}/schedule/{scheduleId}</a> |
| New or Updated APIs | New                                                                                                                                                                                                                                                                                                                                                 |

Container Security now provides APIs to pull and scan registries and image repositories. You can create, update, list, and delete registries and registry schedules.

Use the swagger UI to try out API calls. You can directly access the Swagger UI from the following URL

<https://<QualysURL>/csapi/swagger-ui.html>

For example, if your account is on US Platform 2

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

Authentication to the Qualys Cloud Platform is necessary before you try out the APIs. Simply, click Authorize and provide the user name and password.

Permissions required to use APIs

- User must have the Container module enabled
- User must have API ACCESS permission

## Samples

Samples to create, list, update and delete registries and registry schedules.

- [Sample 1 - Fetch a list of registries in your account](#)
- [Sample 2 - Fetch registry details](#)
- [Sample 3 - Fetch AWS account ID and external ID](#)
- [Sample 4 - Fetch a list of AWS connectors in your account](#)
- [Sample 5 - Fetch a list of AWS connectors for a certain account ID](#)
- [Sample 6 - Create connector](#)
- [Sample 7 - Validate registry parameters](#)
- [Sample 8 - Create registry](#)
- [Sample 9 - Update registry](#)
- [Sample 10 - Fetch a list of repositories in a registry](#)
- [Sample 11 - Fetch a list of schedules created for a registry](#)

- [Sample 12 - Create registry schedule](#)
- [Sample 13 - Update registry schedule](#)
- [Sample 14 - Delete a registry in your account](#)
- [Sample 15 - Delete multiple registries \(bulk delete\) in your account](#)
- [Sample 16 - Delete a registry schedule](#)
- [Sample 17 - Delete multiple registry schedules \(bulk delete\)](#)

## Sample 1 - Fetch a list of registries in your account

/v1.1/registry

[GET]

Here's sample request and output to fetch a list of registries in your account.

### Input Parameters:

| Parameter | Description                                                                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| filter    | Filter the registries list by providing a query using Qualys syntax. Refer to the "How to Search" topic in the online help for assistance with creating your query. |
| pageNo    | (Required) The page to be returned. Page numbers start with 0.                                                                                                      |
| pageSize  | (Required) The number of records per page to be included in the response.                                                                                           |
| sort      | Sort the results using a Qualys token. For example <b>created:desc</b> . Refer to the "Sortable tokens" topic in the online help for more information.              |

### API request:

```
curl -X GET --header 'Accept: application/json' --header 'Authorization: Basic VVNFUk5BTUU6UEFTU1dPUkQ=' 'https://qualysguard.qualys.com/csapi/v1.1/registry?pageNo=0&pageSize=50'
```

### Response:

```
{
  "data": [
    {
      "registryUuid": "1ec77e7b-2243-49d1-ac5b-06090ff896e4",
      "registryUri": "http://ec2-13-57-34-145.us-west-1.compute.amazonaws.com:8083",
      "registryType": "V2_PRIVATE",
      "repoCount": 2,
      "totalImages": 0,
      "totalScannedImages": 0,

```

```

    "totalVulnerableImages": 0,
    "lastScanned": "1536301443647",
    "scheduleStatusList": {
      "Completed": 3
    },
    "created": "1536237658094",
    "updated": "1536237658094",
    "dockerHubOrg": null,
    "providerType": null,
    "awsAccountId": null,
    "awsRegion": null
  },
  {
    "registryUuid": "57739abc-ee35-43ab-9f74-2157c15a0ae4",
    "registryUri": "https://registry-1.docker.io",
    "registryType": "DockerHub",
    "repoCount": 0,
    "totalImages": 0,
    "totalScannedImages": 0,
    "totalVulnerableImages": 0,
    "lastScanned": "1536134457859",
    "scheduleStatusList": {
      "Completed": 3
    },
    "created": "1536081619949",
    "updated": "1536081619949",
    "dockerHubOrg": null,
    "providerType": "DockerHub",
    "awsAccountId": null,
    "awsRegion": null
  }, ...
], ...
"count": 6,
"groups": {}
}

```

## Sample 2 - Fetch registry details

/v1.1/registry

[GET]

Here's sample request and output to fetch details of a registry in your account.

Input Parameters:

| Parameter  | Description                                                           |
|------------|-----------------------------------------------------------------------|
| registryId | (Required) ID/UUID of the registry you want to fetch the details for. |

### API request:

```
curl -X GET --header 'Accept: application/json' --header 'Authorization:
Basic VVNFUk5BTUU6UEFTUldPUkQ='
'https://qualysguard.qualys.com/csapi/v1.1/registry/ada5f044-f177-43c7-
a306-353697c6d5a0'
```

### Response:

```
{
  "registryUuid": "ada5f044-f177-43c7-a306-353697c6d5a0",
  "registryUri": "https://art-hq.intranet.qualys.com:5001",
  "registryType": "V2",
  "repoCount": 252,
  "totalImages": 966,
  "totalScannedImages": 0,
  "totalVulnerableImages": 0,
  "scheduleStatusList": {
    "Completed": 2,
    "Running": 5
  },
  "created": "1537253984965",
  "updated": "1537253984965",
  "lastScanned": "1537722005089",
  "dockerHubOrg": null,
  "providerType": null,
  "aws": null,
  "credential": {
    "username": "anonymous"
  },
  "connectors": null
}
```

### **Sample 3 - Fetch AWS account ID and external ID**

/v1.1/registry/aws-base

[GET]

You can get your AWS account ID and external ID to help you create an ARN.

### API request:

```
curl -X GET --header 'Accept: application/json' --header 'Authorization:
Basic VVNFUk5BTUU6UEFTUldPUkQ='
'https://qualysguard.qualys.com/csapi/v1.1/registry/aws-base'
```

### Response:

```
{
  "accountId": "20576771xxxx",
```

```
    "externalId": 27738xxxx
  }
```

#### Sample 4 - Fetch a list of AWS connectors in your account

/v1.1/registry/aws/connectors

[GET]

You can get a list of AWS connectors to help you create a registry.

##### API request:

```
curl -X GET --header 'Accept: application/json' --header 'Authorization:
Basic VVNFUk5BTUU6UEFTUldPUkQ='
'https://qualysguard.qualys.com/csapi/v1.1/registry/aws/connectors'
```

##### Response:

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

#### Sample 5 - Fetch a list of AWS connectors for a certain account ID

/v1.1/registry/aws/connectors/{accountId}

[GET]

You can get a list of AWS connectors for an account ID to help you create a registry.

##### Input Parameters:

| Parameter | Description                                                        |
|-----------|--------------------------------------------------------------------|
| accountId | (Required) Provide the AWS account Id to get a list of connectors. |

##### API request:

```
curl -X GET --header 'Accept: application/json' --header 'Authorization:
Basic VVNFUk5BTUU6UEFTUldPUkQ='
'https://qualysguard.qualys.com/csapi/v1.1/registry/aws/connectors/205767'
```

712438'

### Response:

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

### **Sample 6 - Create connector**

/v1.1/registry/aws/connector

[POST]

Use this API to create a new aws connector.

### Input Parameters:

| Parameter   | Description                          |
|-------------|--------------------------------------|
| arn         | ARN number of the account ID.        |
| externalId  | The externalId of your organization. |
| name        | Connector name.                      |
| description | Connector description.               |

Input parameters can be provided in following format if you are using swagger:

```
{
  "arn": "arn:aws:iam::205767712438:role/abcd",
  "externalId": "903805594",
  "name": "TestAWS",
  "description": "Testing of AWS account"
}
```

### API request:

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: */*' --header 'Authorization: Basic VVNFUk5BTUU6UEFTU1dPUkQ=' -d '{ \
  "arn": "arn:aws:iam::205767712438:role/abcd", \
  "externalId": "903805594", \
  "name": "TestAWS", \
  "description": "Testing of AWS"
```

```
account" \ }' 'https://qualysguard.qualys.com/csapi/v1.1/registry/aws/  
connector'
```

### Response:

```
response code 200
```

## Sample 7 - Validate registry parameters

/v1.1/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 account ID exists, if the credentials provided are correct, and so on.

### Input Parameters:

| Parameter        | Description                                                                                                                                                                                           |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| accountId        | Provide the AWS account Id if your registry will be hosted on AWS.<br>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.<br>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 belong to.                                                                                                                                                              |
| username         | Username to connect to the registry. Should be in base64 format.                                                                                                                                      |
| password         | Password to connect to the registry. Should be in base64 format.                                                                                                                                      |
| credentialType   | None, Token, BasicAuth, DockerHub, AWS.                                                                                                                                                               |
| dockerHubOrgName | (Optional) Organization name if the registryType is DockerHub.                                                                                                                                        |
| registryType     | AWS ECR, DockerHub, Docker V2, Docker V2-Private.                                                                                                                                                     |
| registryUri      | URL of the registry to connect to.                                                                                                                                                                    |

Input parameters can be provided in following format if you are using swagger:

```
{  
  "aws": {  
    "accountId": "383031258652",  
    "arn": "arn:aws:iam::383031258652:role/testabcd",
```



```

    "region": "us-east-2"
  },
  "credentialType": "AWS",
  "registryType": "AWS",
  "registryUri": "https://383031258652.dkr.ecr.us-east-2.amazonaws.com"
}

```

#### API request:

```

curl -X POST --header 'Content-Type: application/json' --header 'Accept:
application/json' --header 'Authorization: Basic
VVFNFuk5BTUUU6UEFTUldPUkQ=' -d '{ \ "aws": { \ "accountId": "383031258652",
\ "arn": "arn:aws:iam::383031258652:role/testabcd", \      "region": "us-
east-2" \ }, \ "credentialType": "AWS", \ "registryType": "AWS", \
"registryUri": "https://383031258652.dkr.ecr.us-east-2.amazonaws.com" \
}' 'https://qualysguard.qualys.com/csapi/v1.1/registry/
validate'

```

#### Response:

```

{
  "errorCode": "CMS-1504",
  "message": "Registry arn:aws:iam::383031258652:role/testabcd already
exists in system.",
  "timestamp": 1536744107711
}

```

### Sample 8 - Create registry

/v1.1/registry

[POST]

Use this API to create a new registry.

#### Input Parameters:

| Parameter | Description                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| accountId | Provide the AWS account Id if your registry will be hosted on AWS.<br>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.<br>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 belong to.                                                                                                                                                              |
| username  | Username to connect to the registry. Should be in base64 format.                                                                                                                                      |

|                  |                                                                  |
|------------------|------------------------------------------------------------------|
| password         | Password to connect to the registry. Should be in base64 format. |
| credentialType   | None, Token, BasicAuth, DockerHub, AWS.                          |
| dockerHubOrgName | (Optional) Organization name if the registryType is DockerHub.   |
| registryType     | AWS ECR, DockerHub, Docker V2, Docker V2-Private.                |
| registryUri      | URL of the registry to connect to.                               |

Input parameters can be provided in following format if you are using swagger:

```
{
  "aws": {
    "accountId": "383031258652",
    "arn": "arn:aws:iam::383031258652:role/testabcd",
    "region": "us-east-2"
  },
  "credentialType": "AWS",
  "registryType": "AWS",
  "registryUri": "https://383031258652.dkr.ecr.us-east-2.amazonaws.com"
}
```

#### API request:

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: text/plain' --header 'Authorization: Basic VVNFUk5BTUU6UEFTUldPUkQ=' -d '{
  \ "aws": { \ "accountId": "383031258652", \ "arn":
  "arn:aws:iam::383031258652:role/testabcd", \ "region": "us-east-2" \ }, \
  "credentialType": "AWS", \ "registryType": "AWS", \ "registryUri":
  "https://383031258652.dkr.ecr.us-east-2.amazonaws.com" \ }'
'https://qualysguard.qualys.com/csapi/v1.1/registry'
```

#### Response:

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

## Sample 9 - Update registry

/v1.1/registry/{registryId}

[PUT]

Use this API to update an existing registry.

### Input Parameters:

| Parameter        | Description                                                                                                                               |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| registryId       | (Required) ID/UUID of the registry you want to update.                                                                                    |
| accountId        | Provide a new AWS account Id for this registry.                                                                                           |
| arn              | ARN number of the account ID.<br>Specify the ARN if you want to use an existing AWS connector, or if you want to create a new connector.  |
| username         | Username to connect to the registry. Should be in base64 format.                                                                          |
| password         | Password to connect to the registry. Should be in base64 format.                                                                          |
| credentialType   | None, Token, BasicAuth, DockerHub, AWS.                                                                                                   |
| dockerHubOrgName | (Optional) Organization name if the registryType is DockerHub.                                                                            |
| registryType     | AWS ECR, DockerHub, Docker V2, Docker V2-Private.<br>This field is not updatable, but should be provided as input during registry update. |
| registryUri      | URL of the registry to connect to.<br>This field is not updatable, but should be provided as input during registry update.                |

Input parameters can be provided in following format if you are using swagger:

```
{
  "credential": {
    "username": "Y21zLWFldG=",
    "password": "YWJjZDEyMz="
  },
  "credentialType": "BasicAuth",
  "registryType": "V2",
  "registryUri": "https://art-hq.intranet.qualys.com:5002"
}
```

### API request:

```
curl -X PUT --header 'Content-Type: application/json' --header 'Accept: text/plain' --header 'Authorization: Basic VVNFUk5BTUU6UEFTU1dPUkQ=' -d '{"credential": { \ "username": "Y21zLWFldGg=", \ "password":
```

```
"YWJjZDEyMzQ=" \ }, \ "credentialType": "BasicAuth", \ "registryType":  
"V2", \ "registryUri": "https://art-hq.intranet.qualys.com:5002" \ }'  
'https://qualysguard.qualys.com/csapi/v1.1/registry/b994c2e6-8961-4133-  
a889-662d8cf52310'
```

### Response:

Returns the same registry ID with response code 200.

## Sample 10 - Fetch a list of repositories in a registry

/v1.1/registry/{registryId}/repository

[GET]

Here's sample request and output to fetch a list of repositories in a registry.

### Input Parameters:

| Parameter  | Description                                                                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| registryId | (Required) The ID of the registry for which you want to list the repositories.                                                                                      |
| filter     | Filter the registries list by providing a query using Qualys syntax. Refer to the “How to Search” topic in the online help for assistance with creating your query. |
| pageNo     | (Required) The page to be returned. Page numbers start with 0.                                                                                                      |
| pageSize   | (Required) The number of records per page to be included in the response.                                                                                           |
| sort       | Sort the results using a Qualys token. For example <b>repositoryName:asc</b> . Refer to the “Sortable tokens” topic in the online help for more information.        |

### API request:

```
curl -X GET --header 'Accept: application/json' --header 'Authorization:  
Basic VVNFUk5BTUU6UEFTUldPUkQ='  
'https://qualysguard.qualys.com/csapi/v1.1/registry/995a2ab4-48dc-48ef-  
905d-9ecf846d63cb/repository?pageNo=0&pageSize=50'
```

### Response:

```
{  
  "data": [  
    {  
      "repoName": "qualys/cms/cms-processor-service",  
      "totalImages": 4,  
      "totalScannedImages": 4,  
    }  
  ]  
}
```

```

        "totalVulnerableImages": 2
    },
    {
        "repoName": "qualys/cms/cms-api-service",
        "totalImages": 4,
        "totalScannedImages": 4,
        "totalVulnerableImages": 1
    }
],
"count": 2,
"groups": {}
}

```

### Sample 11 - Fetch a list of schedules created for a registry

/v1.1/registry/{registryId}/schedule

[GET]

Here's sample request and output to fetch a list of schedules created for a registry.

#### Input Parameters:

| Parameter  | Description                                                                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| registryId | (Required) The ID of the registry for which you want to list the schedules.                                                                                         |
| filter     | Filter the registries list by providing a query using Qualys syntax. Refer to the "How to Search" topic in the online help for assistance with creating your query. |
| pageNo     | (Required) The page to be returned. Page numbers start with 0.                                                                                                      |
| pageSize   | (Required) The number of records per page to be included in the response.                                                                                           |
| sort       | Sort the results using a Qualys token. For example <b>created:desc</b> . Refer to the "Sortable tokens" topic in the online help for more information.              |

#### API request:

```

curl -X GET --header 'Accept: application/json' --header 'Authorization:
Basic VVNFUk5BTUU6UEFTU1dPUkQ='
'https://qualysguard.qualys.com/csapi/v1.1/registry/995a2ab4-48dc-48ef-
905d-9ecf846d63cb/schedule?pageNo=0&pageSize=50 '

```

Response:

```
{
  "data": [
    {
      "scheduleUuid": "f98a64e7-4a62-40ae-b155-4a0cd445b42b",
      "onDemand": true,
      "created": "1537174851067",
      "updated": "1537174851067",
      "jobStartDate": "1537174851192",
      "jobCompletionDate": null,
      "name": null,
      "errors": null,
      "schedule": "00:00",
      "filters": [
        {
          "repoTags": [
            {
              "repo": ".*",
              "tag": null
            }
          ],
          "days": null
        }
      ],
      "status": "Running"
    },
    {
      "scheduleUuid": "397b65f8-4b91-4698-8d7b-245b667981c3",
      "onDemand": true,
      "created": "1536745686008",
      "updated": "1536745686008",
      "jobStartDate": "1536745686923",
      "jobCompletionDate": "1536745690933",
      "name": null,
      "errors": null,
      "schedule": "00:00",
      "filters": [
        {
          "repoTags": [
            {
              "repo": "qualys/cms/cms-api-service",
              "tag": "1.2.0.0"
            }
          ],
          "days": 7
        }
      ],
      "status": "Completed"
    }
  ]
}
```

```
    },
    ...
  ],
  "count": 5,
  "groups": {}
}
```

## Sample 12 - Create registry schedule

/v1.1/registry/{registryId}/schedule

[POST]

Use this API to create a schedule to pull and scan a registry.

Input Parameters:

| Parameter  | Description                                                                                                           |
|------------|-----------------------------------------------------------------------------------------------------------------------|
| registryId | (Required) The ID of the registry you want to scan.                                                                   |
| OnDemand   | Specify true if you want to enable OnDemand scan. Otherwise, Automatic scan will be triggered everyday at a set time. |
| repo       | Provide the name of the repository you want to scan. You can add one more repositories to a single scan schedule.     |
| tag        | For OnDemand scan, include image tags you want to include in the scan (comma separated values).                       |
| days       | For OnDemand scan, include images created certain days ago. 1 to 7 days / 14 (for last two weeks).                    |
| schedule   | For Automatic scan, specify time in UTC to scan at a set time every day. For example 19:30.                           |

Input parameters can be provided in following format if you are using swagger:

```
{
  "name": "scheduleTest",
  "onDemand": true,
  "filters": [
    {
      "repoTags": [{
        "repo": "qualys/cms/cms-api-service",
        "tag": "1.2.0.0"
      }],
      "days": 7
    }
  ],
  "schedule": null
}
```

}

#### API request:

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept:
text/plain' --header 'Authorization: Basic VVNFUk5BTUU6UEFTUldPUkQ=' -d '{
\ "name": "scheduleTest", \ "onDemand": true, \ "filters": [ \ { \
"repoTags": [{ \ "repo": "qualys/cms/cms-api-service", \ "tag": "1.2.0.0"
\ }], \ "days": 7 \ } \ ], \ "schedule": null \ }'
'https://qualysguard.qualys.com/csapi/v1.1/registry/995a2ab4-48dc-48ef-
905d-9ecf846d63cb/schedule'
```

#### Response:

```
{"scheduleUuid":"397b65f8-4b91-4698-8d7b-245b667981c3"}
```

### Sample 13 - Update registry schedule

/v1.1/registry/{registryId}/schedule/{scheduleId}

[PUT]

Use this API to update an existing registry schedule. Jobs in running state cannot be updated.

#### Input Parameters:

| Parameter  | Description                                                                                                                                                                                              |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| registryId | (Required) ID/UUID of the registry you want to update.                                                                                                                                                   |
| scheduleId | (Required) ID/UUID of the schedule you want to update.                                                                                                                                                   |
| OnDemand   | Specify true if you want to enable OnDemand scan.<br>Otherwise, Automatic scan will be triggered everyday at a set time.<br>This parameter is not updatable, as you can update only Automatic scan jobs. |
| repo       | Provide the name of the repository you want to scan.<br>You can add one more repositories to a single scan schedule.<br>This parameter is not updatable.                                                 |
| tag        | For OnDemand scan, include image tags you want to include in the scan (comma separated values).<br>This parameter is not updatable, as you can update only Automatic scan jobs.                          |



|          |                                                                                                                                                                                 |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| days     | For OnDemand scan, include images created certain days ago. 1 to 7 days, or 14 for last two weeks. This parameter is not updatable, as you can update only Automatic scan jobs. |
| schedule | For Automatic scan, specify time in UTC to scan at a set time every day. For example 19:30.                                                                                     |

Input parameters can be provided in following format if you are using swagger:

```
{
  "name": "scheduleTest",
  "onDemand": true,
  "filters": [
    {
      "repoTags": [{
        "repo": "cms-auth",
        "tag": ""
      }],
      "days": 14
    }
  ],
  "schedule": "00:00"
}
```

#### API request:

```
curl -X PUT --header 'Content-Type: application/json' --header 'Accept: text/plain' --header 'Authorization: Basic VVNFUk5BTUU6UEFTUldPUkQ=' -d '{ \ "name": "scheduleTest", \ "onDemand": true, \ "filters": [ \ { \ "repoTags": [{ \ "repo": "cms-auth", \ "tag": "" \ }], \ "days": 14 \ } \ ], \ "schedule": "00:00" \ }' 'https://qualysguard.qualys.com/csapi/v1.1/registry/995a2ab4-48dc-48ef-905d-9ecf846d63cb/schedule/5c4c7e21-9119-48f7-9458-57cededae000'
```

#### Response:

Returns the same schedule ID with response code 200.

### Sample 14 - Delete a registry in your account

/v1.1/registry/{registryId}

[DELETE]

Use this API to delete an existing registry in your account.

#### Input Parameters:

| Parameter  | Description                                                                                                                          |
|------------|--------------------------------------------------------------------------------------------------------------------------------------|
| registryId | (Required) ID/UUID of the registry you want to delete.<br>Note: You cannot delete a registry whose schedules are in "Running" state. |

#### API request:

```
curl -X DELETE --header 'Accept: text/plain' --header 'Authorization:
Basic VVNFUk5BTUU6UEFTU1dPUkQ='
'https://qualysguard.qualys.com/csapi/v1.1/registry/95b715e0-0fc7-4dac-
b4de-2e1b92fc527d'
```

#### Response:

response code 200

### Sample 15 - Delete multiple registries (bulk delete) in your account

/v1.1/registry

[DELETE]

Use this API to delete multiple registries in your account.

#### Input Parameters:

| Parameter   | Description                                                                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| registryIds | (Required) ID/UUIDs of the registries you want to delete.<br>Should be in the form of an array.<br>Note: You cannot delete registries whose schedules are in "Running" state. |

Input parameters can be provided in following format if you are using swagger:

```
["fc129b85-e23c-4236-9fd2-47a257746208", "fe066970-0efc-4b04-91f4-
b21870c61136"]
```

#### API request:

```
curl -X DELETE --header 'Content-Type: application/json' --header 'Accept:
text/plain' --header 'Authorization: Basic VVNFUk5BTUU6UEFTUldPUkQ=' -d
'["fc129b85-e23c-4236-9fd2-47a257746208", "fe066970-0efc-4b04-91f4-
b21870c61136"]' 'https://qualysguard.qualys.com/csapi/v1.1/registry'
```

#### Response:

```
Returns {"deletedRegistryUuids":["fc129b85-e23c-4236-9fd2-
47a257746208","fe066970-0efc-4b04-91f4-b21870c61136"]}
```

response code 200

### **Sample 16 - Delete a registry schedule**

/v1.1/registry/{registryId}/schedule/{scheduleId}

[DELETE]

Use this API to delete an existing registry schedule.

#### Input Parameters:

| Parameter  | Description                                                                                                                  |
|------------|------------------------------------------------------------------------------------------------------------------------------|
| registryId | (Required) ID/UUID of the registry you want to delete.                                                                       |
| scheduleId | (Required) ID/UUID of the schedule you want to delete.<br>Note: You cannot delete a schedule which is in<br>"Running" state. |

#### API request:

```
curl -X DELETE --header 'Accept: text/plain' --header 'Authorization:
Basic VVNFUk5BTUU6UEFTUldPUkQ='
'https://qualysguard.qualys.com/csapi/v1.1/registry/8eadf73e-357a-4282-
9351-1ff453e4131d/schedule/aeablccd-a2ae-4bd9-807d-d387b0555fbe'
```

#### Response:

response code 200

## Sample 17 - Delete multiple registry schedules (bulk delete)

/v1.1/registry/{registryId}/schedule

[DELETE]

Use this API to delete multiple registry schedules.

### Input Parameters:

| Parameter   | Description                                                                                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| registryId  | (Required) ID/UUID of the registry you want to delete.                                                                                                        |
| scheduleIds | (Required) ID/UUIDs of the schedules you want to delete. Should be in the form of an array.<br>Note: You cannot delete schedules that are in "Running" state. |

Input parameters can be provided in following format if you are using swagger:

```
[ "9a9468c9-33d7-49aa-8275-a1e92b30c916", "8843983c-f0c6-441b-b8ed-4d00acf195b3" ]
```

### API request:

```
curl -X DELETE --header 'Content-Type: application/json' --header 'Accept: text/plain' --header 'Authorization: Basic VVNFUk5BTUU6UEFTU1dPUkQ=' -d '["9a9468c9-33d7-49aa-8275-a1e92b30c916", "8843983c-f0c6-441b-b8ed-4d00acf195b3"]' 'https://qualysguard.qualys.com/csapi/v1.1/registry/fc129b85-e23c-4236-9fd2-47a257746208/schedule/'
```

### Response:

```
Returns {"deletedScheduleUuids":["9a9468c9-33d7-49aa-8275-a1e92b30c916", "8843983c-f0c6-441b-b8ed-4d00acf195b3"]}
```

response code 200

## APIs to delete Sensors, Images and Containers

|                     |                                                                     |
|---------------------|---------------------------------------------------------------------|
| APIs affected       | /csapi/v1.1/sensors<br>/csapi/v1.1/images<br>/csapi/v1.1/containers |
| New or Updated APIs | New                                                                 |

Container Security now provides APIs to delete sensors, images and containers in your account.

Use the swagger UI to try out API calls. You can directly access the Swagger UI from the following URL

`https://<QualysURL>/csapi/swagger-ui.html`

For example, if your account is on US Platform 2

`https://qualysguard.qg2.apps.qualys.com/csapi/swagger-ui.html`

Authentication to the Qualys Cloud Platform is necessary before you try out the APIs. Simply, click Authorize and provide the user name and password.

Permissions required to use APIs

- User must have the Container module enabled
- User must have API ACCESS permission

### Samples

Samples to delete sensors, images and containers.

#### Sample 1 - Delete sensors in your account

`/v1.1/sensors`

[DELETE]

Use this API to delete existing sensors in your account. You can only delete sensors with UNKNOWN status.

Input Parameters:

| Parameter           | Description                                                                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sensorDeleteRequest | (Required) user filters to query sensors or provide one or more sensor UUIDs to delete.<br>Filter can be applied by providing a query using Qualys syntax. Refer to the "How to Search" topic in the online help for assistance with creating your query. |

Input parameters can be provided in following format if you are using swagger:

```
{
  "filter": "hostname:cms"
}
```

#### API request:

```
curl -X DELETE --header 'Content-Type: application/json' --header 'Accept:
text/plain' --header 'Authorization: Basic VVNFUk5BTUU6UEFTUldPUkQ=' -d '{
\ "filter": "hostname:cms" \ }'
'https://qualysguard.qualys.com/csapi/v1.1/sensors'
```

#### Response:

```
Returns {"deletionJobId":"bbaac4c7-6263-4e2f-b391-bcb032975206"}
```

```
response code 200
```

### **Sample 2 - Delete images in your account**

/v1.1/images

[DELETE]

Use this API to delete existing images in your account. Images with active containers (CREATED, RUNNING, STOPPED, PAUSED) associated with them, cannot be deleted.

#### Input Parameters:

| Parameter          | Description                                                                                                                                                                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| imageDeleteRequest | (Required) user filters to query images or provide one or more image UUIDs to delete.<br>Filter can be applied by providing a query using Qualys syntax. Refer to the “How to Search” topic in the online help for assistance with creating your query. |

Input parameters can be provided in following format if you are using swagger:

```
{
  "imageIds": [
    "e3e4cca0-8305-3835-810a-b334dcb65a33"
  ]
}
```

#### API request:

```
curl -X DELETE --header 'Content-Type: application/json' --header 'Accept:
text/plain' --header 'Authorization: Basic VVNFUk5BTUU6UEFTUldPUkQ=' -d '{
\ "imageIds": [ \ "e3e4cca0-8305-3835-810a-b334dcb65a33" \ ] \ }'
```

```
'https://qualysguard.qualys.com/csapi/v1.1/images'
```

Response:

```
Returns {"deletionJobId":"980ce235-5677-4997-81ca-3905e63471bb"}  
  
response code 200
```

**Sample 3 - Delete containers in your account**

/v1.1/containers

[DELETE]

Use this API to delete existing containers in your account.

Input Parameters:

| Parameter              | Description                                                                                                                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| containerDeleteRequest | (Required) user filters to query containers or provide one or more container UUIDs to delete.<br>Filter can be applied by providing a query using Qualys syntax. Refer to the “How to Search” topic in the online help for assistance with creating your query. |

Input parameters can be provided in following format if you are using swagger:

```
{  
  "containerIds": [  
    "a6025a31-bd86-37e6-9de7-5722af586b66", "c4032e71-5969-34a9-a8a9-  
    ba2b69729673"  
  ]  
}
```

API request:

```
curl -X DELETE --header 'Content-Type: application/json' --header 'Accept:  
text/plain' --header 'Authorization: Basic VVNFUk5BTUU6UEFTUldPUkQ=' -d '{  
  \ "containerIds": [ \ "a6025a31-bd86-37e6-9de7-5722af586b66", "c4032e71-  
  5969-34a9-a8a9-ba2b69729673" \ ] \ }'  
'https://qualysguard.qualys.com/csapi/v1.1/containers'
```

Response:

```
Returns {"deletionJobId":"413b076e-01a8-4780-8e62-875b615a9a1f"}  
  
response code 200
```

## Vulnerability age in vulnerability details

|                     |                                                                                |
|---------------------|--------------------------------------------------------------------------------|
| APIs affected       | /csapi/v1.1/images/{imageId}/vuln<br>/csapi/v1.1/containers/{containerId}/vuln |
| New or Updated APIs | Updated                                                                        |

APIs to fetch vulnerability details for images and containers, now show the age of a vulnerability as "ageInDays". The age value is displayed in days. Age is calculated from the point Qualys published the vulnerability.

Here is sample request and response to fetch vulnerability details of an image. The response contains **ageInDays**.

### API request:

```
curl -X GET --header 'Accept: application/json' --header 'Authorization:
Basic VVNFUk5BTUU6UEFTU1dPUkQ='
'https://qualysguard.qualys.com/csapi/v1.1/images/b9e15a5d1e1a/vuln?type=
ALL&sort=qid%3Aasc'
```

### Response:

```
{
  "details": [
    {
      "vulnerability": null,
      "result": "Exact OS obtained: Ubuntu Linux 16.04.5\\n",
      "lastFound": "1538722400369",
      "firstFound": "1538722400369",
      "fixed": null,
      "severity": 2,
      "customerSeverity": 2,
      "port": null,
      "typeDetected": "CONFIRMED",
      "status": null,
      "nonRunningKernel": null,
      "nonExploitableConfig": null,
      "runningService": null,
      "risk": 20,
      "category": "General remote services",
      "os": null,
      "discoveryType": [
        "REMOTE"
      ],
      "authType": [],
      "supportedBy": [
        "VM"
      ]
    }
  ]
}
```



```
"product": [],
"vendor": [],
"cveids": [],
"threatIntel": {
  "activeAttacks": null,
  "zeroDay": null,
  "publicExploit": null,
  "highLateralMovement": null,
  "easyExploit": true,
  "highDataLoss": null,
  "noPatch": true,
  "denialOfService": null,
  "malware": null,
  "exploitKit": null,
  "publicExploitNames": null,
  "malwareNames": null,
  "exploitKitNames": null
},
"qid": 38510,
"title": "CA Agent Discloses Exact Operating System Version",
"cvssInfo": {
  "baseScore": "5.0",
  "temporalScore": "4.8",
  "accessVector": "Network"
},
"cvss3Info": {
  "baseScore": "7.8",
  "temporalScore": "7.0"
},
"patchAvailable": false,
"published": 1141200000000,
"ageInDays": 4605,
"software": null
},
],
...
}
```