Aggregates

Cloud Manager Automation

NetApp
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Aggregates

Get aggregates

You can retrieve a list of available disk aggregates for Cloud Volumes ONTAP in Google Cloud.

1. Select the working environment

Perform the workflow Get working environment and choose the `publicId` value of the working environment for the `workingEnvironmentId` path parameter.

2. Get the list of aggregates

HTTP method	Path
GET	/occm/api/gcp/vsa/aggregates/{workingEnvironmentId}

curl example

```
curl --location --request GET
'https://cloudmanager.cloud.netapp.com/occm/api/gcp/vsa/aggregates/<WORKIN
G_ENV_ID>' --header 'Content-Type: application/json' --header 'x-agent-id:
<AGENT_ID>' --header 'Authorization: Bearer <ACCESS_TOKEN>'
```

Input

Path parameter:

- <WORKING_ENV_ID> `(workingEnvironmentId)` string

Output

An array of aggregates for the indicated working environment is returned as shown in the JSON output example.

The capacity (sizes) in the output are in MB/GB/TB (1000th order) because these are ONTAP aggregates, whereas in Cloud Manager the capacity is specified as MiB, GiB (1024 order).

JSON output example


```
[
    {
        "name": "aggr1",
        "availableCapacity": {
            "size": 87.55,
            "unit": "GB"
        },
        "totalCapacity": {
            "size": 88.57,
```

```
            "unit": "GB"
        },
        "usedCapacity": {
            "size": 1.02,
            "unit": "GB"
        },
        "volumes": [
            {
                "name": "svm_zivgcp01we02_root",
                "totalSize": {
                    "size": 1.0,
                    "unit": "GB"
                },
                "usedSize": {
                    "size": 7.59124755859375E-4,
                    "unit": "GB"
                },
                "thinProvisioned": false,
                "isClone": false,
                "rootVolume": true
            }
        ],
        "providerVolumes": [
            {
                "id": "00000000000000000",
                "name": "zivgcp01we02datadisk1",
                "size": {
                    "size": 100.0,
                    "unit": "GB"
                },
                "state": "READY",
                "device": "zivgcp01we02datadisk1",
                "instanceId": "zivgcp01we02",
                "diskType": "pd-ssd",
                "encrypted": true,
                "iops": null
            }
        ],
        "disks": [
            {
                "name": "NET-1.2",
                "position": "data",
                "ownerNode": "zivgcp01we02-01",
                "device": "zivgcp01we02datadisk1",
                "vmDiskProperties": null
            }
```

```
        ],
        "state": "online",
        "encryptionType": "cloudEncrypted",
        "encryptionKeyId": null,
        "isRoot": false,
        "homeNode": "zivgcp01we02-01",
        "ownerNode": "zivgcp01we02-01",
        "capacityTier": null,
        "capacityTierUsed": null,
        "sidlEnabled": true,
        "snaplockType": "non_snaplock"
    }
]
```


Create aggregate

You can create new aggregate within a Cloud Volumes ONTAP working environment using this workflow.

1. Select the working environment

Perform the workflow Get working environment and choose the `publicId` value for the `workingEnvironmentId` parameter in the JSON input.

2. Select the GCP disk types

Perform the Get GCP disk types workflow and choose the `size` and `supportedDiskType` values of the required `diskSize` and `providerVolumeType` parameters in the JSON input.

3. Create the aggregate

HTTP method	Path
POST	occm/api/gcp/vsa/aggregates

curl example

```
curl --location --request POST
'https://cloudmanager.cloud.netapp.com/occm/api/gcp/vsa/aggregates'
--header 'Content-Type: application/json' --header 'x-agent-id:
<AGENT_ID>' --header 'Authorization: Bearer <ACCESS_TOKEN>' --d @JSONinput
```

Input

The JSON input example includes the minimum list of input parameters.

JSON input example

```
{
  "name": "ziv01agg01",
  "workingEnvironmentId": "vsaworkingenvironment-sfrf3wvj",
  "numberOfDisks": 1,
  "diskSize": {
    "size": 100,
    "unit": "GB"
  },
  "providerVolumeType": "pd-ssd"
}
```

Output

None

Add disks to aggregate

You can add disks to an existing aggregate.

1. Select the working environment

Perform the workflow Get GCP single node working environment and choose the `publicId` value for the `workingEnvironmentId` path parameter.

2. Select the aggregate

Perform the workflow Get aggregates and choose `name` of the required aggregate for the `aggregateName` path parameter.

3. Add the disks to the aggregate

HTTP method	Path
POST	/occm/api/gcp/vsa/aggregates/{workingEnvironmentId}/{aggregateName}/disks

curl example

```
curl --location --request POST
'https://cloudmanager.cloud.netapp.com/occm/api/gcp/vsa/aggregates/<WORKIN
G_ENV_ID>/<AGGR_NAME>/disks' --header 'Content-Type: application/json'
--header 'x-agent-id: <AGENT_ID>' --header 'Authorization: Bearer
<ACCESS_TOKEN>' --d @JSONinput
```

Input

You must include the following path parameters:

- <WORKING_ENV_ID> `(workingEnvironmentId)` string
- <AGGR_NAME> `(aggregateName)` string

Also, the JSON input example includes an input parameter as shown.

JSON input example

```
{
    "numberOfDisks": "1"
}
```

Output

None

Delete aggregate

You can delete an existing disk aggregate in a Cloud Volumes ONTAP working environment.

1. Select the working environment

Perform the workflow Get working environment and choose the `publicId` value of the working environment for the `workingEnvironmentId` path parameter.

2. Select the aggregate

Perform the workflow Get aggregates and choose the `name` value of the required aggregate for the `aggregateName` path parameter.

3. Delete the aggregate

HTTP method	Path
DELETE	/occm/api/gcp/vsa/aggregates/{workingEnvironmentId}/{aggregateName}

curl example

```
curl --location --request DELETE
'https://cloudmanager.cloud.netapp.com/occm/api/gcp/vsa/aggregates/<WORKIN
G_ENV_ID>/<AGGR_NAME>' --header 'Content-Type: application/json' --header
'x-agent-id: <AGENT_ID>' --header 'Authorization: Bearer <ACCESS_TOKEN>'
```

Input

Path parameters:

- <WORKING_ENV_ID> (`workingEnvironmentId`) string
- <AGGR_NAME> (`aggregateName`) string

Output

None