# Manage storage aggregate plexes

## REST API reference

NetApp
September 12, 2025

This PDF was generated from https://docs.netapp.com/us-en/ontap-restapi-9131/storage_aggregates_aggregate.uuid_plexes_endpoint_overview.html on September 12, 2025. Always check docs.netapp.com for the latest.

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# Manage storage aggregate plexes

## Storage aggregates aggregate.uuid plexes endpoint overview

### Overview

The Storage Aggregate Plex API provides relevant state information for each plex in the aggregate. For each plex, details are provided for the RAID groups in the plex and the disks that make up each RAID group.

### Examples

#### Retrieving all aggregates and plexes

The following example shows the response with a list of aggregates and plexes:

# The call:

curl -X GET "https://<mgmt-ip>/api/storage/aggregates/*/plexes" -H "accept: application/json"</mgmt-ip>

# The response:

{ "records": [ { "aggregate": { "uuid": "04b7296e-a302-42a6-a2a9-dda6be054b29", "name": "test2" }, "name": "plex0" }, { "aggregate": { "uuid": "04b7296e-a302-42a6-a2a9-dda6be054b29", "name": "test2" }, "name": "plex1", }, { "aggregate": { "uuid": "66c4b221-65ff-4211-9b58-ada3c6fc41af", "name": "test" }, "name": "plex0" }, { "aggregate": { "uuid": "66c4b221-65ff-4211-9b58-ada3c6fc41af", "name": "test" }, "name": "plex1" }, { "aggregate": { "uuid": "7ee89e48-5d81-4609-9e1b-5d8d0995a886", "name": "aggr1", }, "name": "plex0", }, { "aggregate": { "uuid": "8bb2e3bf-c4f1-4748-9033-ca9231cf1c40", "name": "test3", }, "name": "plex0", }, { "aggregate": { "uuid": "8bb2e3bf-c4f1-4748-9033-ca9231cf1c40", "name": "test3", }, "name": "plex1" }, { "aggregate": { "uuid": "8f13de5c-99cf-4ada-884c-3cc32deb304a", "name": "aggr2", }, "name": "plex0" } ], "num_records": 8 }

```
### Retrieving a specific plex in all aggregates
The following example shows the response with a list of specific plexes in
all aggregates:


# The call:
curl -X GET "https://<mgmt-ip>/api/storage/aggregates/*/plexes/plex0" -H
"accept: application/json"

# The response:
{
"records": [
  {
    "aggregate": {
      "uuid": "04b7296e-a302-42a6-a2a9-dda6be054b29",
```

```
      "name": "test2"
    },
    "name": "plex0"
  },
  {
    "aggregate": {
      "uuid": "66c4b221-65ff-4211-9b58-ada3c6fc41af",
      "name": "test"
    },
    "name": "plex0"
  },
  {
    "aggregate": {
      "uuid": "7ee89e48-5d81-4609-9e1b-5d8d0995a886",
      "name": "aggr1",
    },
    "name": "plex0",
  },
  {
    "aggregate": {
      "uuid": "8bb2e3bf-c4f1-4748-9033-ca9231cf1c40",
      "name": "test3",
    },
    "name": "plex0",
  },
  {
    "aggregate": {
      "uuid": "8f13de5c-99cf-4ada-884c-3cc32deb304a",
      "name": "aggr2",
    },
    "name": "plex0"
  }
],
"num_records": 8
}
```


**Retrieving the list of plexes in an aggregate**

The following example shows the response with the list of plexes in an aggregate:

```
# The API:
/api/storage/aggregates/{uuid}/plexes

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/aggregates/19425837-f2fa-4a9f-
8f01-712f626c983c/plexes" -H "accept: application/json"

# The response:
{
"records": [
  {
    "name": "plex0",
  },
  {
    "name": "plex4",
  }
],
"num_records": 2,
}
```

**Retrieving a specific plex in an aggregate**

The following example shows the response when requesting a specific plex of an aggregate:

```
# The API:
/api/storage/aggregates/{uuid}/plexes/{name}

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/aggregates/19425837-f2fa-4a9f-
8f01-712f626c983c/plexes/plex0" -H "accept: application/json"

# The response:
{
"aggregate": {
  "uuid": "19425837-f2fa-4a9f-8f01-712f626c983c",
  "name": "test1",
},
"name": "plex0",
"online": true,
"state": "normal",
"pool": "pool0",
"resync": {
  "active": false
},
"raid_groups": [
```

```
  {
    "name": "rg0",
    "raid_type": "raid_dp",
    "cache_tier": false,
    "degraded": false,
    "recomputing_parity": {
      "active": false
    },
    "reconstruct": {
      "active": false
    },
    "disks": [
      {
        "position": "dparity",
        "state": "normal",
        "type": "ssd",
        "usable_size": 86769664,
        "disk": {
          "name": "1.1.29",
        }
      },
      {
        "position": "parity",
        "state": "normal",
        "type": "ssd",
        "usable_size": 86769664,
        "disk": {
          "name": "1.1.4",
        }
      },
      {
        "position": "data",
        "state": "normal",
        "type": "ssd",
        "usable_size": 86769664,
        "disk": {
          "name": "1.1.30",
        }
      },
      {
        "position": "data",
        "state": "normal",
        "type": "ssd",
        "usable_size": 86769664,
        "disk": {
          "name": "1.1.5",
```

```
        }
      },
      {
        "position": "data",
        "state": "normal",
        "type": "ssd",
        "usable_size": 86769664,
        "disk": {
          "name": "1.1.31",
        }
      },
      {
        "position": "data",
        "state": "normal",
        "type": "ssd",
        "usable_size": 86769664,
        "disk": {
          "name": "1.1.6",
        }
      }
    ]
  }
],
}
```


# Retrieve a collection of plexes for an aggregate

GET `/storage/aggregates/{aggregate.uuid}/plexes`

**Introduced In:** 9.6

Retrieves the collection of plexes for the specified aggregate.

## Related ONTAP commands

- `storage aggregate plex show`

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| aggregate.uuid | string | path | True | Aggregate UUID |
| resync.percent | integer | query | False | Filter by resync.percent |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| resync.active | boolean | query | False | Filter by resync.active |
| resync.level | string | query | False | Filter by resync.level |
| raid_groups.cache_tier | boolean | query | False | Filter by raid_groups.cache_tier<br>• Introduced in: 9.7 |
| raid_groups.reconstruct.active | boolean | query | False | Filter by raid_groups.reconstruct.active<br>• Introduced in: 9.7 |
| raid_groups.reconstruct.percent | integer | query | False | Filter by raid_groups.reconstruct.percent<br>• Introduced in: 9.7 |
| raid_groups.disks.state | string | query | False | Filter by raid_groups.disks.state<br>• Introduced in: 9.7 |
| raid_groups.disks.position | string | query | False | Filter by raid_groups.disks.position<br>• Introduced in: 9.7 |
| raid_groups.disks.type | string | query | False | Filter by raid_groups.disks.type<br>• Introduced in: 9.7 |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| raid_groups.disks.usable_size | integer | query | False | Filter by raid_groups.disks.usable_size<br>• Introduced in: 9.7 |
| raid_groups.disks.disk.name | string | query | False | Filter by raid_groups.disks.disk.name<br>• Introduced in: 9.7 |
| raid_groups.recomputing_parity.active | boolean | query | False | Filter by raid_groups.recomputing_parity.active<br>• Introduced in: 9.7 |
| raid_groups.recomputing_parity.percent | integer | query | False | Filter by raid_groups.recomputing_parity.percent<br>• Introduced in: 9.7 |
| raid_groups.name | string | query | False | Filter by raid_groups.name<br>• Introduced in: 9.7 |
| raid_groups.degraded | boolean | query | False | Filter by raid_groups.degraded<br>• Introduced in: 9.7 |
| raid_groups.raid_type | string | query | False | Filter by raid_groups.raid_type<br>• Introduced in: 9.9 |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| aggregate.name | string | query | False | Filter by aggregate.name |
| online | boolean | query | False | Filter by online |
| name | string | query | False | Filter by name |
| state | string | query | False | Filter by state |
| pool | string | query | False | Filter by pool |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |
| return_records | boolean | query | False | The default is true for GET calls. When set to false, only the number of records is returned.<br>• Default value: 1 |
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.<br>• Default value: 1<br>• Max value: 120<br>• Min value: 0 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

## Response

```
Status: 200, Ok
```

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| error | error | |
| num_records | integer | Number of records |
| records | array[plex] | |

**Example response**


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  },
  "num_records": 1,
  "records": [
    {
      "aggregate": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "aggr1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "name": "plex0",
      "pool": "string",
      "raid_groups": [
        {
          "disks": [
            {
              "disk": {
                "_links": {
                  "self": {
                    "href": "/api/resourcelink"
                  }
                },
```

```
                "name": "1.0.1"
              },
              "position": "string",
              "state": "string",
              "type": "ssd",
              "usable_size": 947912704
            }
          ],
          "name": "rg0",
          "raid_type": "raid_dp",
          "recomputing_parity": {
            "percent": 10
          },
          "reconstruct": {
            "percent": 10
          }
        }
      ],
      "resync": {
        "level": "string",
        "percent": 10
      },
      "state": "string"
    }
  ]
}
```


## Error

```
Status: Default, Error
```

| Name | Type | Description |
| --- | --- | --- |
| error | error | |

**Example error**


```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```


## Definitions

**See Definitions**

href

| Name | Type | Description |
|---|---|---|
| href | string | |

_links

| Name | Type | Description |
|---|---|---|
| next | href | |
| self | href | |

error_arguments

| Name | Type | Description |
|---|---|---|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|---|---|---|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

_links

| Name | Type | Description |
|---|---|---|
| self | href | |

aggregate

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | |
| uuid | string | |

disk

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | |

raid_group_disk

| Name | Type | Description |
|---|---|---|
| disk | disk | |
| position | string | The position of the disk within the RAID group. |
| state | string | The state of the disk within the RAID group. |
| type | string | Disk interface type |
| usable_size | integer | Size in bytes that is usable by the aggregate. |

recomputing_parity

| Name | Type | Description |
|---|---|---|
| active | boolean | RAID group is recomputing parity |
| percent | integer | Recomputing parity percentage |

reconstruct

| Name | Type | Description |
|---|---|---|
| active | boolean | One or more disks in this RAID group are being reconstructed. |
| percent | integer | Reconstruct percentage |

raid_group

| Name | Type | Description |
|---|---|---|
| cache_tier | boolean | RAID group is a cache tier |

| Name | Type | Description |
|---|---|---|
| degraded | boolean | RAID group is degraded. A RAID group is degraded when at least one disk from that group has failed or is offline. |
| disks | array[raid_group_disk] | |
| name | string | RAID group name |
| raid_type | string | RAID type of the raid group. |
| recomputing_parity | recomputing_parity | |
| reconstruct | reconstruct | |

resync

| Name | Type | Description |
|---|---|---|
| active | boolean | Plex is being resynchronized to its mirrored plex |
| level | string | Plex resyncing level |
| percent | integer | Plex resyncing percentage |

plex

| Name | Type | Description |
|---|---|---|
| aggregate | aggregate | |
| name | string | Plex name |
| online | boolean | Plex is online |
| pool | string | SyncMirror pool assignment |
| raid_groups | array[raid_group] | |
| resync | resync | |
| state | string | Plex state |

# Retrieve a plex specified by the aggregate UUID and plex name

GET `/storage/aggregates/{aggregate.uuid}/plexes/{name}`

**Introduced In:** 9.6

Retrieves the plex specified by the aggregate UUID and plex name.

## Related ONTAP commands

- `storage aggregate plex show`

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| aggregate.uuid | string | path | True | Aggregate UUID |
| name | string | path | True | Plex name |
| fields | array[string] | query | False | Specify the fields to return. |

## Response

```
Status: 200, Ok
```

| Name | Type | Description |
|---|---|---|
| aggregate | aggregate | |
| name | string | Plex name |
| online | boolean | Plex is online |
| pool | string | SyncMirror pool assignment |
| raid_groups | array[raid_group] | |
| resync | resync | |
| state | string | Plex state |

**Example response**


```
{
  "aggregate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "aggr1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "name": "plex0",
  "pool": "string",
  "raid_groups": [
    {
      "disks": [
        {
          "disk": {
            "_links": {
              "self": {
                "href": "/api/resourcelink"
              }
            },
            "name": "1.0.1"
          },
          "position": "string",
          "state": "string",
          "type": "ssd",
          "usable_size": 947912704
        }
      ],
      "name": "rg0",
      "raid_type": "raid_dp",
      "recomputing_parity": {
        "percent": 10
      },
      "reconstruct": {
        "percent": 10
      }
    }
  ],
  "resync": {
    "level": "string",
    "percent": 10
  },
```

```
  "state": "string"
}
```

## Error

```
Status: Default, Error
```

| Name | Type | Description |
|---|---|---|
| error | error | |

### Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

**See Definitions**

href

| Name | Type | Description |
|---|---|---|
| href | string | |

_links

| Name | Type | Description |
|---|---|---|
| self | href | |

aggregate

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | |
| uuid | string | |

disk

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | |

raid_group_disk

| Name | Type | Description |
|---|---|---|
| disk | disk | |
| position | string | The position of the disk within the RAID group. |
| state | string | The state of the disk within the RAID group. |
| type | string | Disk interface type |
| usable_size | integer | Size in bytes that is usable by the aggregate. |

recomputing_parity

| Name | Type | Description |
|---|---|---|
| active | boolean | RAID group is recomputing parity |
| percent | integer | Recomputing parity percentage |

reconstruct

| Name | Type | Description |
|---|---|---|
| active | boolean | One or more disks in this RAID group are being reconstructed. |
| percent | integer | Reconstruct percentage |

raid_group

| Name | Type | Description |
|---|---|---|
| cache_tier | boolean | RAID group is a cache tier |
| degraded | boolean | RAID group is degraded. A RAID group is degraded when at least one disk from that group has failed or is offline. |
| disks | array[raid_group_disk] | |
| name | string | RAID group name |
| raid_type | string | RAID type of the raid group. |
| recomputing_parity | recomputing_parity | |
| reconstruct | reconstruct | |

resync

| Name | Type | Description |
|---|---|---|
| active | boolean | Plex is being resynchronized to its mirrored plex |
| level | string | Plex resyncing level |
| percent | integer | Plex resyncing percentage |

error_arguments

| Name | Type | Description |
| --- | --- | --- |
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
| --- | --- | --- |
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

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