



# **Manage storage aggregate plexes**

## **REST API reference**

NetApp

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# Table of Contents

- Manage storage aggregate plexes . . . . . 1
  - Manage storage aggregate plexes . . . . . 1
    - Overview . . . . . 1
    - Examples . . . . . 1
  - Retrieve a collection of plexes for an aggregate . . . . . 6
    - Related ONTAP commands . . . . . 6
    - Parameters . . . . . 6
    - Response . . . . . 10
    - Error . . . . . 12
    - Definitions . . . . . 13
  - Retrieve a plex specified by the aggregate UUID and plex name . . . . . 17
    - Related ONTAP commands . . . . . 17
    - Parameters . . . . . 17
    - Response . . . . . 17
    - Error . . . . . 20
    - Definitions . . . . . 20

# Manage storage aggregate plexes

## Manage storage aggregate plexes

### 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 API:
/storage/aggregates/{aggregate.uuid}/plexes

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

# 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 API:
/storage/aggregates/{aggregate.uuid}/plexes/{name}

```

```
# 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

Name	Type	In	Required	Description
online	boolean	query	False	Filter by online
name	string	query	False	Filter by name
state	string	query	False	Filter by state
resync.percent	integer	query	False	Filter by resync.percent
resync.active	boolean	query	False	Filter by resync.active
resync.level	string	query	False	Filter by resync.level
pool	string	query	False	Filter by pool
raid_groups.raid_type	string	query	False	Filter by raid_groups.raid_type  • Introduced in: 9.9
raid_groups.reconstruct.active	boolean	query	False	Filter by raid_groups.reconstruct.active  • Introduced in: 9.7
raid_groups.reconstruct.percent	integer	query	False	Filter by raid_groups.reconstruct.percent  • Introduced in: 9.7
raid_groups.disks.disk.name	string	query	False	Filter by raid_groups.disks.disk.name  • Introduced in: 9.7

Name	Type	In	Required	Description
raid_groups.disks.usable_size	integer	query	False	Filter by raid_groups.disks.usable_size  • Introduced in: 9.7
raid_groups.disks.type	string	query	False	Filter by raid_groups.disks.type  • Introduced in: 9.7
raid_groups.disks.state	string	query	False	Filter by raid_groups.disks.state  • Introduced in: 9.7
raid_groups.disks.position	string	query	False	Filter by raid_groups.disks.position  • Introduced in: 9.7
raid_groups.cache_tier	boolean	query	False	Filter by raid_groups.cache_tier  • Introduced in: 9.7
raid_groups.recomputing_parity.percent	integer	query	False	Filter by raid_groups.recomputing_parity.percent  • Introduced in: 9.7
raid_groups.recomputing_parity.active	boolean	query	False	Filter by raid_groups.recomputing_parity.active  • Introduced in: 9.7

Name	Type	In	Required	Description
raid_groups.name	string	query	False	Filter by raid_groups.name <ul style="list-style-type: none"> <li>Introduced in: 9.7</li> </ul>
raid_groups.degraded	boolean	query	False	Filter by raid_groups.degraded <ul style="list-style-type: none"> <li>Introduced in: 9.7</li> </ul>
aggregate.name	string	query	False	Filter by aggregate.name
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. <ul style="list-style-type: none"> <li>Default value: 1</li> </ul>
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. <ul style="list-style-type: none"> <li>Default value: 15</li> <li>Max value: 120</li> <li>Min value: 0</li> </ul>

Name	Type	In	Required	Description
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
error	<a href="#">error</a>	
num_records	integer	Number of records
records	array[ <a href="#">plex</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist"
  },
  "num_records": 1,
  "records": [
    {
      "aggregate": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "aggr1",
        "uuid": "1cd8a442-86d1-11e0-aelc-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	returned_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	<a href="#">href</a>	
self	<a href="#">href</a>	

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message

\_links

Name	Type	Description
self	<a href="#">href</a>	

aggregate

Aggregate

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

disk

## Disk

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	

## raid\_group\_disk

Name	Type	Description
disk	<a href="#">disk</a>	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[ <a href="#">raid_group_disk</a> ]	
name	string	RAID group name
raid_type	string	RAID type of the raid group.
recomputing_parity	<a href="#">recomputing_parity</a>	
reconstruct	<a href="#">reconstruct</a>	

#### 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	<a href="#">aggregate</a>	Aggregate
name	string	Plex name
online	boolean	Plex is online
pool	string	SyncMirror pool assignment
raid_groups	array[ <a href="#">raid_group</a> ]	
resync	<a href="#">resync</a>	
state	string	Plex state

#### returned\_error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## 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	<a href="#">aggregate</a>	Aggregate
name	string	Plex name

Name	Type	Description
online	boolean	Plex is online
pool	string	SyncMirror pool assignment
raid_groups	array[ <a href="#">raid_group</a> ]	
resync	<a href="#">resync</a>	
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	<a href="#">returned_error</a>	

## 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	<a href="#">href</a>	

aggregate

Aggregate

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

disk

Disk

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	

raid\_group\_disk

Name	Type	Description
disk	<a href="#">disk</a>	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[ <a href="#">raid_group_disk</a> ]	
name	string	RAID group name
raid_type	string	RAID type of the raid group.
recomputing_parity	<a href="#">recomputing_parity</a>	
reconstruct	<a href="#">reconstruct</a>	

#### 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

returned\_error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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