



# **Manage cluster-wide storage**

## **REST API reference**

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# Manage cluster-wide storage

## Manage cluster-wide storage

Retrieves cluster-wide storage details across the different tiers. Storage details include storage efficiency, block storage and cloud storage information.

### Example

#### Retrieving cluster-wide storage details

The following example shows the details returned for a GET request on cluster-wide storage:

```
# The API:
/api/storage/cluster

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/cluster" -H "accept:
application/hal+json"

# The response:
{
  "efficiency": {
    "savings": 143360,
    "ratio": 1.134099616858238,
    "logical_used": 1212416
  },
  "efficiency_without_snapshots": {
    "savings": 0,
    "ratio": 1,
    "logical_used": 167936
  },
  "efficiency_without_snapshots_flexclones": {
    "savings": 0,
    "ratio": 1,
    "logical_used": 167936
  },
  "block_storage": {
    "used": 6269812736,
    "size": 56125612032,
    "available": 49855799296,
    "physical_used": 1838284800,
    "inactive_data": 0,
```

```

"medias": [
  {
    "type": "ssd",
    "size": 9891430400,
    "available": 3728039936,
    "used": 6163390464,
    "physical_used": 1832886272,
    "efficiency": {
      "savings": 0,
      "ratio": 1,
      "logical_used": 0
    },
    "efficiency_without_snapshots": {
      "savings": 0,
      "ratio": 1,
      "logical_used": 0
    },
    "efficiency_without_snapshots_flexclones": {
      "savings": 0,
      "ratio": 1,
      "logical_used": 0
    }
  },
  {
    "type": "vmdisk",
    "size": 46234181632,
    "available": 46127759360,
    "used": 106422272,
    "physical_used": 5398528,
    "efficiency": {
      "savings": 282624,
      "ratio": 1.303964757709251,
      "logical_used": 1212416
    },
    "efficiency_without_snapshots": {
      "savings": 0,
      "ratio": 1,
      "logical_used": 167936
    },
    "efficiency_without_snapshots_flexclones": {
      "savings": 0,
      "ratio": 1,
      "logical_used": 167936
    }
  }
]

```

```
}  
}
```

## Report cluster-wide storage details across different tiers

GET /storage/cluster

**Introduced In:** 9.6

Retrieves cluster-wide storage details across the different tiers. By default, this endpoint returns all fields. Storage details include storage efficiency, block storage and cloud storage information. Supports the following roles: admin, and readonly.

### Parameters

Name	Type	In	Required	Description
efficiency_without_snapshots.savings	integer	query	False	Filter by efficiency_without_snapshots.savings  • Introduced in: 9.14
efficiency_without_snapshots.logical_used	integer	query	False	Filter by efficiency_without_snapshots.logical_used  • Introduced in: 9.14
efficiency_without_snapshots.ratio	number	query	False	Filter by efficiency_without_snapshots.ratio  • Introduced in: 9.14
efficiency.savings	integer	query	False	Filter by efficiency.savings  • Introduced in: 9.14

Name	Type	In	Required	Description
efficiency.logical_used	integer	query	False	Filter by efficiency.logical_used  • Introduced in: 9.14
efficiency.ratio	number	query	False	Filter by efficiency.ratio  • Introduced in: 9.14
block_storage.media_s.size	integer	query	False	Filter by block_storage.media_s.size  • Introduced in: 9.14
block_storage.media_s.available	integer	query	False	Filter by block_storage.media_s.available  • Introduced in: 9.14
block_storage.media_s.efficiency_without_snapshots_flexclone_s.savings	integer	query	False	Filter by block_storage.media_s.efficiency_without_snapshots_flexclone_s.savings  • Introduced in: 9.14
block_storage.media_s.efficiency_without_snapshots_flexclone_s.logical_used	integer	query	False	Filter by block_storage.media_s.efficiency_without_snapshots_flexclone_s.logical_used  • Introduced in: 9.14

Name	Type	In	Required	Description
block_storage.media s.efficiency_without_ snapshots.flexclone s.ratio	number	query	False	Filter by block_storage.media s.efficiency_without_ snapshots.flexclone s.ratio  • Introduced in: 9.14
block_storage.media s.efficiency.savings	integer	query	False	Filter by block_storage.media s.efficiency.savings  • Introduced in: 9.14
block_storage.media s.efficiency.logical_u sed	integer	query	False	Filter by block_storage.media s.efficiency.logical_u sed  • Introduced in: 9.14
block_storage.media s.efficiency.ratio	number	query	False	Filter by block_storage.media s.efficiency.ratio  • Introduced in: 9.14
block_storage.media s.efficiency_without_ snapshots.savings	integer	query	False	Filter by block_storage.media s.efficiency_without_ snapshots.savings  • Introduced in: 9.14
block_storage.media s.efficiency_without_ snapshots.logical_us ed	integer	query	False	Filter by block_storage.media s.efficiency_without_ snapshots.logical_u sed  • Introduced in: 9.14

Name	Type	In	Required	Description
block_storage.media s. efficiency_without_ snapshots. ratio	number	query	False	Filter by block_storage.media s. efficiency_without_ snapshots. ratio  • Introduced in: 9.14
block_storage.media s. physical_used	integer	query	False	Filter by block_storage.media s. physical_used  • Introduced in: 9.14
block_storage.media s. type	string	query	False	Filter by block_storage.media s. type  • Introduced in: 9.14
block_storage.media s. used	integer	query	False	Filter by block_storage.media s. used  • Introduced in: 9.14
block_storage.size	integer	query	False	Filter by block_storage.size  • Introduced in: 9.14
block_storage.inactiv e_data	integer	query	False	Filter by block_storage.inacti ve_data  • Introduced in: 9.14
block_storage.availa ble	integer	query	False	Filter by block_storage.availa ble  • Introduced in: 9.14



Name	Type	In	Required	Description
block_storage.physical_used	integer	query	False	Filter by block_storage.physical_used  • Introduced in: 9.14
block_storage.used	integer	query	False	Filter by block_storage.used  • Introduced in: 9.14
cloud_storage.used	integer	query	False	Filter by cloud_storage.used  • Introduced in: 9.14
efficiency_without_snapshots_flexclones.savings	integer	query	False	Filter by efficiency_without_snapshots_flexclones.savings  • Introduced in: 9.14
efficiency_without_snapshots_flexclones.logical_used	integer	query	False	Filter by efficiency_without_snapshots_flexclones.logical_used  • Introduced in: 9.14
efficiency_without_snapshots_flexclones.ratio	number	query	False	Filter by efficiency_without_snapshots_flexclones.ratio  • Introduced in: 9.14
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
block_storage	<a href="#">block_storage</a>	Configuration information for the locally attached portion of the storage across the cluster. When a cloud store is also used by the storage, this is referred to as the performance tier.
cloud_storage	<a href="#">cloud_storage</a>	Configuration information for the cloud storage portion of all the aggregates across the cluster. This is referred to as the capacity tier.
efficiency	<a href="#">efficiency</a>	Storage efficiency.
efficiency_without_snapshots	<a href="#">efficiency_without_snapshots</a>	Storage efficiency that does not include the savings provided by snapshots.
efficiency_without_snapshots_flexclones	<a href="#">efficiency_without_snapshots_flexclones</a>	Storage efficiency that does not include the savings provided by snapshots and FlexClone volumes.
metric	<a href="#">metric</a>	Cluster capacity numbers, such as total size, used size, and available size.

## Example response

```
{
  "block_storage": {
    "available": 0,
    "inactive_data": 0,
    "medias": [
      {
        "efficiency": {
          "logical_used": 0,
          "ratio": 0,
          "savings": 0
        },
        "efficiency_without_snapshots": {
          "logical_used": 0,
          "ratio": 0,
          "savings": 0
        },
        "efficiency_without_snapshots_flexclones": {
          "logical_used": 0,
          "ratio": 0,
          "savings": 0
        },
        "type": "string"
      }
    ],
    "physical_used": 0,
    "size": 0,
    "used": 0
  },
  "efficiency": {
    "logical_used": 0,
    "ratio": 0,
    "savings": 0
  },
  "efficiency_without_snapshots": {
    "logical_used": 0,
    "ratio": 0,
    "savings": 0
  },
  "efficiency_without_snapshots_flexclones": {
    "logical_used": 0,
    "ratio": 0,
    "savings": 0
  },
  "metric": {
```

```

    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  }
}

```

## 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

efficiency

Storage efficiency.

Name	Type	Description
logical_used	integer	Logical used
ratio	number	Data reduction ratio (logical_used / used)
savings	integer	Space saved by storage efficiencies (logical_used - used)

efficiency\_without\_snapshots

Storage efficiency that does not include the savings provided by snapshots.

Name	Type	Description
logical_used	integer	Logical used
ratio	number	Data reduction ratio (logical_used / used)
savings	integer	Space saved by storage efficiencies (logical_used - used)

efficiency\_without\_snapshots\_flexclones

Storage efficiency that does not include the savings provided by snapshots and FlexClone volumes.

Name	Type	Description
logical_used	integer	Logical used
ratio	number	Data reduction ratio (logical_used / used)
savings	integer	Space saved by storage efficiencies (logical_used - used)

medias

Name	Type	Description
available	integer	Available space across the cluster based on media type.
efficiency	<a href="#">efficiency</a>	Storage efficiency.
efficiency_without_snapshots	<a href="#">efficiency_without_snapshots</a>	Storage efficiency that does not include the savings provided by snapshots.
efficiency_without_snapshots_flex_clones	<a href="#">efficiency_without_snapshots_flex_clones</a>	Storage efficiency that does not include the savings provided by snapshots and FlexClone volumes.
physical_used	integer	Total physical used space across the cluster based on media type.
size	integer	Total space across the cluster based on media type.
type	string	The type of media being used.
used	integer	Used space across the cluster based on media type.

#### block\_storage

Configuration information for the locally attached portion of the storage across the cluster. When a cloud store is also used by the storage, this is referred to as the performance tier.

Name	Type	Description
available	integer	Available space across the cluster.
inactive_data	integer	Inactive data across the cluster.
medias	array[ <a href="#">medias</a> ]	Configuration information based on type of media. For example, SSD media type information includes the sum of all the SSD storage across the cluster.
physical_used	integer	Total physical used space across the cluster.

Name	Type	Description
size	integer	Total space across the cluster.
used	integer	Used space (includes volume reserves) across the cluster.

cloud\_storage

Configuration information for the cloud storage portion of all the aggregates across the cluster. This is referred to as the capacity tier.

Name	Type	Description
used	integer	Total space used in cloud.

href

Name	Type	Description
href	string	

\_links

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

metric

Cluster capacity numbers, such as total size, used size, and available size.

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

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

Name	Type	Description
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.



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