Retrieve capacity pool licenses

REST API reference

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Table of Contents

Retrieve capacity pool licenses . . . 1
- Cluster licensing capacity-pools endpoint overview . . . 1
  - Overview . . . 1
  - Examples . . . 1
- Retrieve capacity pools . . . 5
  - Learn more . . . 5
  - Related ONTAP commands . . . 5
  - Parameters . . . 5
  - Response . . . 6
  - Error . . . 8
  - Definitions . . . 8
- Retrieve capacity pool information . . . 10
  - Learn more . . . 11
  - Related ONTAP commands . . . 11
  - Parameters . . . 11
  - Response . . . 11
  - Error . . . 13
  - Definitions . . . 13

Retrieve capacity pool licenses

Cluster licensing capacity-pools endpoint overview

Overview

Capacity pool licenses are installed on and managed by the license manager. Each ONTAP node that is using the capacity pools licensing model is associated with a capacity pool license from which capacity is leased for data aggregates.

This API is used to retrieve information about associations between ONTAP nodes in the cluster and capacity pool licenses. It also reports how much capacity each node is consuming from the capacity pool.

Examples

Retrieving a collection of capacity pools associated with the cluster

This example retrieves a collection that contains two capacity pool licenses, each of which is associated with an HA pair of nodes in a four-node cluster.

```
# API
curl -X GET "https://<mgmt-ip>/api/cluster/licensing/capacity-pools"

# Response
200 OK

# JSON Body
{
"records":[
  {
    "serial_number":"390000100",
    "license_manager": {
      "uuid": "4ea7a442-86d1-11e0-ae1c-112233445566",
      "_links": {
        "self": {
          "href": "/api/cluster/licensing/license-managers/4ea7a442-86d1-
11e0-ae1c-112233445566"
        }
      }
    },
    "nodes":[
      {
        "node":{
          "name":"node-1",
          "uuid":"4ea7a442-86d1-11e0-ae1c-123478563411"
```

```
        },
        "used_size":1099511627776,
        "_links":{
          "self":{
            "href": "/api/cluster/nodes/4ea7a442-86d1-11e0-ae1c-
123478563411"
          }
        }
      },
      {
        "node":{
          "name":"node-2",
          "uuid":"4ea7a442-86d1-11e0-ae1c-123478563412"
        },
        "used_size":1099511627776,
        "_links":{
          "self":{
            "href": "/api/cluster/nodes/4ea7a442-86d1-11e0-ae1c-
123478563412"
          }
        }
      }
    ],
    "_links":{
      "self":{
        "href":"/api/cluster/licensing/capacity-pools/390000100"
      }
    }
  },
  {
    "serial_number":"390000101",
    "license_manager": {
      "uuid": "4ea7a442-86d1-11e0-ae1c-112233445566",
      "_links": {
        "self": {
          "href": "/api/cluster/licensing/license-managers/4ea7a442-86d1-
11e0-ae1c-112233445566"
        }
      }
    },
    "nodes":[
      {
        "node":{
          "name":"node-3",
          "uuid":"4ea7a442-86d1-11e0-ae1c-123478563413"
        },
```

```
        "used_size":2199023255552,
        "_links":{
          "self":{
            "href": "/api/cluster/nodes/4ea7a442-86d1-11e0-ae1c-
123478563413"
          }
        }
      },
      {
        "node":{
          "name":"node-4",
          "uuid":"4ea7a442-86d1-11e0-ae1c-123478563414"
        },
        "used_size":2199023255552,
        "_links":{
          "self":{
            "href": "/api/cluster/nodes/4ea7a442-86d1-11e0-ae1c-
123478563414"
          }
        }
      }
    ],
    "_links":{
      "self":{
        "href":"/api/cluster/licensing/capacity-pools/390000101"
      }
    }
  }
],
"num_records":2,
"_links":{
  "self":{
    "href":"/api/cluster/licensing/capacity-pools"
  }
}
}
```


Retrieving information about nodes associated with a specific capacity pool license

This example retrieves information about the nodes that are associated with a capacity pool license of the serial number 390000100.

```
# API
curl -X GET "https://<mgmt-ip>/api/cluster/licensing/capacity-
pools/390000100"
```

```
# Response
200 OK

# JSON Body
{
"serial_number":"390000100",
"license_manager": {
  "uuid": "4ea7a442-86d1-11e0-ae1c-112233445566",
  "_links": {
    "self": {
      "href": "/api/cluster/licensing/license-managers/4ea7a442-86d1-11e0-
ae1c-112233445566"
     }
  }
},
"nodes":[
  {
    "node":{
      "name":"node-1",
      "uuid":"4ea7a442-86d1-11e0-ae1c-123478563411"
    },
    "used_size":1099511627776,
    "_links":{
      "self":{
        "href": "/api/cluster/nodes/4ea7a442-86d1-11e0-ae1c-123478563411"
      }
    }
  },
  {
    "node":{
      "name":"node-2",
      "uuid":"4ea7a442-86d1-11e0-ae1c-123478563412"
    },
    "used_size":1099511627776,
    "_links":{
      "self":{
        "href": "/api/cluster/nodes/4ea7a442-86d1-11e0-ae1c-123478563412"
      }
    }
  }
],
"_links":{
  "self":{
    "href":"/api/cluster/licensing/capacity-pools/390000100"
  }
}
```

```
}
```

Retrieve capacity pools

GET `/cluster/licensing/capacity-pools`

Introduced In: 9.8

Retrieves a collection of capacity pools.

Learn more

- DOC /cluster/licensing/capacity-pools

Related ONTAP commands

- `system license show-status`
- `system license show`

Parameters

Name	Type	In	Required	Description
serial_number	string	query	False	Filter by serial_number
license_manager.uuid	string	query	False	Filter by license_manager.uuid
nodes.node.uuid	string	query	False	Filter by nodes.node.uuid
nodes.node.name	string	query	False	Filter by nodes.node.name
nodes.used_size	integer	query	False	Filter by nodes.used_size
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • 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. • Default value: 1 • Max value: 120 • 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	collection_links	
num_records	integer	Number of records
records	array[records]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "license_manager": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "uuid": "4ea7a442-86d1-11e0-ae1c-112233445566"
      },
      "nodes": [
        {
          "node": {
            "_links": {
              "self": {
                "href": "/api/resourcelink"
              }
            },
            "name": "node1",
            "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
          },
          "used_size": 0
        }
      ],
      "serial_number": "390000100"
    }
  ]
}
```

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	

collection_links

Name	Type	Description
next	href	
self	href	

self_link

Name	Type	Description
self	href	

license_manager

License manager instance where this capacity pool license in installed.

Name	Type	Description
_links	self_link	
uuid	string	

_links

Name	Type	Description
self	href	

node_reference

Name	Type	Description
_links	_links	
name	string	
uuid	string	

nodes

Information on a node from the capacity licensing perspective.

Name	Type	Description
node	node_reference	

Name	Type	Description
used_size	integer	Capacity, in bytes, that is currently used by the node.

records

Information on a capacity pool license and how it is associated with the cluster.

Name	Type	Description
_links	self_link	
license_manager	license_manager	License manager instance where this capacity pool license in installed.
nodes	array[nodes]	Nodes in the cluster associated with this capacity pool.
serial_number	string	Serial number of the capacity pool license.

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.

Retrieve capacity pool information

GET `/cluster/licensing/capacity-pools/{serial_number}`

Introduced In: 9.8

Retrieves information about the capacity pool.

Learn more

- DOC /cluster/licensing/capacity-pools

Related ONTAP commands

- `system license show-status`
- `system license show`

Parameters

Name	Type	In	Required	Description
serial_number	string	path	True	Serial number of the capacity pool license.
license_manager.uuid	string	query	False	Filter by license_manager.uuid
nodes.node.uuid	string	query	False	Filter by nodes.node.uuid
nodes.node.name	string	query	False	Filter by nodes.node.name
nodes.used_size	integer	query	False	Filter by nodes.used_size
fields	array[string]	query	False	Specify the fields to return.

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	self_link	

Name	Type	Description
license_manager	license_manager	License manager instance where this capacity pool license in installed.
nodes	array[nodes]	Nodes in the cluster associated with this capacity pool.
serial_number	string	Serial number of the capacity pool license.

Example response


```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "license_manager": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "4ea7a442-86d1-11e0-ae1c-112233445566"
  },
  "nodes": [
    {
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "used_size": 0
    }
  ],
  "serial_number": "390000100"
}
```

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	

self_link

Name	Type	Description
self	href	

license_manager

License manager instance where this capacity pool license in installed.

Name	Type	Description
_links	self_link	
uuid	string	

_links

Name	Type	Description
self	href	

node_reference

Name	Type	Description
_links	_links	
name	string	
uuid	string	

nodes

Information on a node from the capacity licensing perspective.

Name	Type	Description
node	node_reference	
used_size	integer	Capacity, in bytes, that is currently used by the node.

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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