



# Retrieve capacity pool licenses

ONTAP 9.13.1 REST API reference

NetApp  
August 29, 2024

# Table of Contents

- Retrieve capacity pool licenses ..... 1
  - Cluster licensing capacity-pools endpoint overview ..... 1
  - Retrieve capacity pools ..... 5
  - Retrieve capacity pool information ..... 10

# 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
<code>nodes.node.uuid</code>	string	query	False	Filter by <code>nodes.node.uuid</code>
<code>nodes.node.name</code>	string	query	False	Filter by <code>nodes.node.name</code>
<code>nodes.used_size</code>	integer	query	False	Filter by <code>nodes.used_size</code>
<code>license_manager.uuid</code>	string	query	False	Filter by <code>license_manager.uuid</code>
<code>serial_number</code>	string	query	False	Filter by <code>serial_number</code>
<code>fields</code>	array[string]	query	False	Specify the fields to return.
<code>max_records</code>	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. <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: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

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



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

self\_link

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

license\_manager

License manager instance where this capacity pool license in installed.

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

\_links

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

node\_reference

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

nodes

Information on a node from the capacity licensing perspective.

Name	Type	Description
node	<a href="#">node_reference</a>	

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	<a href="#">self_link</a>	
license_manager	<a href="#">license_manager</a>	License manager instance where this capacity pool license is installed.
nodes	array[ <a href="#">nodes</a> ]	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[ <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 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.
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
license_manager.uuid	string	query	False	Filter by license_manager.uuid
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

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

Name	Type	Description
license_manager	license_manager	License manager instance where this capacity pool license is 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	<a href="#">href</a>	

license\_manager

License manager instance where this capacity pool license in installed.

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

\_links

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

node\_reference

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

nodes

Information on a node from the capacity licensing perspective.

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

## Copyright information

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

## Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.