



# **system license commands**

## **ONTAP 9.12.1 commands**

NetApp  
December 14, 2022

# Table of Contents

- system license commands ..... 1
  - system license add ..... 1
  - system license clean-up ..... 1
  - system license delete ..... 3
  - system license show-aggregates ..... 4
  - system license show-serial-numbers ..... 7
  - system license show-status ..... 9
  - system license show ..... 11
  - system license update-leases ..... 12
  - system license capacity show ..... 13
  - system license entitlement-risk show ..... 15
  - system license license-manager check ..... 18
  - system license license-manager modify ..... 19
  - system license license-manager show ..... 20
  - system license status show ..... 20

# system license commands

## system license add

Add one or more licenses

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

This command adds a license to a cluster. To add a license you must specify a valid license key, which you can obtain from your sales representative.

### Parameters

**-license-code <License Code V2>, ... - License Code V2**

This parameter specifies the key of the license that is to be added to the cluster. The parameter accepts a list of 28 digit upper-case alphanumeric character keys.

### Examples

The following example adds a list of licenses with the keys AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA and BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB to the cluster

```
cluster1::> system license add -license-code AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA,  
BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
```

## system license clean-up

Remove unnecessary licenses

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

This command manages licenses in the cluster that have no effect, and so can be removed. Licenses that have expired or are not affiliated with any controller in the cluster are deleted by this command. Licenses that cannot be deleted are displayed with reasons for the non-deletion.

### Parameters

**[-unused <true>] - Remove unused licenses**

If you use this parameter, the command removes licenses in the cluster that are not affiliated with any controller in the cluster.

**[-expired <true>] - Remove expired licenses**

If you use this parameter, the command removes licenses in the cluster that have expired.

### **[-n, -simulate <true>] - Simulate Only**

If you use this parameter, the command will not remove the licenses. Instead it will display the licenses that will be removed if this parameter was not provided.

### **Examples**

The following example simulates and displays the licenses that can be cleaned up:

```
cluster-1::> system license clean-up -expired -unused
```

The following licenses were safely deleted:

```
Serial number: 1-80-000011
```

```
Owner: cdancluster-1
```

```
Package                                Reason
```

```
-----  
-----  
CIFS                                    License has expired
```

```
Serial number: 4067154888
```

```
Owner: none
```

```
Package                                Reason
```

```
-----  
-----  
Cloud                                  License has expired
```

```
Serial number: 1-81-00000000000000004067154999
```

```
Owner: none
```

```
Package                                Reason
```

```
-----  
-----  
iSCSI                                  License unused by any node in the cluster
```

The following licenses are either expired or unused but cannot be safely deleted:

```
Serial number: 4067154778
```

```
Owner: node1
```

```
Package                                Reason
```

```
-----  
-----  
Cloud                                  Feature would be impaired upon removal
```

```
Serial number: 4067154779
```

```
Owner: node2
```

```
Package                                Reason
```

```
-----  
-----  
Cloud                                  System generated license
```

## system license delete

Delete a license

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description

This command deletes a license from a cluster.

## Parameters

### **-serial-number <text> - Serial Number**

This parameter specifies the serial number of the license that is to be deleted from the cluster. If this parameter is not provided, the default value is the serial number of the cluster.

### **-package <Licensable Package> - Package**

This parameter specifies the name of the package that is to be deleted from the cluster.

## Examples

The following example deletes a license named CIFS and serial number 1-81-000000000000000000123456 from the cluster:

```
cluster1::> system license delete -serial-number 1-81-  
000000000000000000123456 -package CIFS
```

The following example deletes from the cluster all of the licenses under the installed-license Core Bundle for serial number 123456789:

```
cluster1::> system license delete { -serial-number 123456789 -installed  
-license "Core Bundle" }
```

## system license show-aggregates

Display status of aggregates leases and license used.

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description

This command displays the status of all ONTAP aggregates.

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node**

If you use this parameter, the command displays information only about aggregates that match the given node.

**[-aggr-name <text>] - Aggregate Name**

If you use this parameter, the command displays information only about aggregate that match the given aggregate.

**[-aggr-size {<integer>[KB|MB|GB|TB|PB] }] - Aggregate Size**

If you use this parameter, the command displays information only about aggregates that match the given physical size of an aggregate.

**[-licensed-size {<integer>[KB|MB|GB|TB|PB] }] - Licensed Size**

If you use this parameter, the command displays information only about aggregates that match the given licensed-size.

**[-expiration <MM/DD/YYYY HH:MM:SS>] - Lease Expiration**

If you use this parameter, the command displays information only about aggregates that match the given lease expiration.

**[-status <AggrLicStatus>] - Aggregate Status**

If you use this parameter, the command displays information only about aggregates that match the given status.

**[-compliant {true|false}] - Is Aggregate Compliant**

If you use this parameter, the command displays information only about aggregates that match the given state of compliance.

**[-aggr-uuid <UUID>] - Aggregate UUID**

If you use this parameter, the command displays information only about aggregate that match the given aggregate uuid.

## Examples

The following example displays the license status of the cluster:

```

cluster1::> system license show-aggregates
Licensed Physical
Node      Aggregate                Size      Size Lease Expiration  Status
-----
node1
      root1                0B        2GB -                lease-
not-required
      root2 (mirror)       0B        2GB -                lease-
not-required
      aggr1                20GB     20GB 6/21/2018 18:10:00 lease-
up-to-date

```

```

        aggr2 (mirror)          10GB      10GB 6/21/2018 20:00:00 lease-
up-to-date
node2
        root1 (mirror)         0B        2GB -                lease-
not-required
        root2                   0B        2GB -                lease-
not-required
        aggr1 (mirror)         20GB      20GB 6/21/2018 18:10:00 lease-
up-to-date
        aggr2                   10GB      10GB 6/21/2018 20:00:00 lease-
up-to-date
node3
        root3                   0B        2GB -                lease-
not-required
        root4 (mirror)         0B        2GB -                lease-
not-required
        aggr3                   15GB      0B 6/21/2018 20:00:00
aggregate-deleted
        aggr4 (mirror)         15GB      15GB 6/21/2018 12:00:00 lease-
expired
        aggr5 (mirror)         15GB      15GB 6/21/2018 21:00:00 lease-
up-to-date
        aggr6                   15GB      15GB 6/21/2018 21:00:00 plex-
deleted
        aggr7                   15GB      14GB 6/21/2018 21:00:00
aggregate-license-size-decreased
        aggr8 (mirror)         0B        14GB -                lease-
missing
node4
        root3 (mirror)         0B        2GB -                lease-
not-required
        root4                   0B        2GB -                lease-
not-required
        aggr3 (mirror)         15GB      0B 6/21/2018 20:00:00
aggregate-deleted
        aggr4                   15GB      15GB 6/21/2018 12:00:00 lease-
expired
        aggr5                   15GB      15GB 6/21/2018 21:00:00 lease-
up-to-date
        aggr6 (mirror)         15GB      0B 6/21/2018 21:00:00 plex-
deleted
        aggr7 (mirror)         15GB      14GB 6/21/2018 21:00:00
aggregate-license-size-decreased
        aggr8                   0B        14GB -                lease-
missing

```



# system license show-serial-numbers

## Display History of Serial Numbers

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description

This command displays the history of changes to the support and node serial numbers. The node serial number and the support serial number of an ONTAP system are generally the same and do not change over time. However, when capacity pools licensing is used, the support serial number is that of the capacity pool license serial number and the node serial number is generated by the license manager. Also, when a cluster is upgraded or converted from capacity tiers licensing to capacity pools licensing, its support serial numbers as well as its node serial numbers change.

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-seqnum <Sequence Number>] - Sequence number**

Event sequence number

**[-node {<nodename>|local}] - Node**

Selects the node names that match this parameter value.

**[-date <MM/DD/YYYY HH:MM:SS>] - Date**

Selects the dates of serial number changes that match this parameter value.

**[-reason <text>] - Reason for change**

Reasons for serial number changes.

**[-support-serial-number <text>] - Support Serial Number**

Selects the support serial numbers that match this parameter value.

**[-node-serial-number <text>] - Node Serial Number**

Selects the node serial number that match this parameter value.

## Examples

The following example displays the serial number change history of a four node capacity pools cluster. Its two HA pairs were originally assigned to capacity pools 390000101 and 390000102, and then both were reassigned to another capacity pool 390000103:

```
cluster1::> system license show-serial-numbers
```

```
Change Date: 06/06/2019
```

```
Reason: Reassignments of capacity pools
```

| Node  | Support Serial | Node Serial          |
|-------|----------------|----------------------|
| node1 | 390000103      | 99939000010100000001 |
| node2 | 390000103      | 99939000010100000002 |
| node3 | 390000103      | 99939000010200000003 |
| node4 | 390000103      | 99939000010200000004 |

```
Change Date: 03/01/2019
```

```
Reason: Initial installation
```

| Node  | Support Serial | Node Serial          |
|-------|----------------|----------------------|
| node1 | 390000101      | 99939000010100000001 |
| node2 | 390000101      | 99939000010100000002 |
| node3 | 390000102      | 99939000010200000003 |
| node4 | 390000102      | 99939000010200000004 |

The following example displays the history of a four node cluster converted from capacity tiers licensing to capacity pools licensing:

```
cluster1::> system license show-serial-numbers
```

```
Change Date: 06/06/2019
```

```
Reason: Conversions from capacity tiers to pools
```

| Node  | Support Serial | Node Serial          |
|-------|----------------|----------------------|
| node1 | 390000103      | 99939000010300000011 |
| node2 | 390000103      | 99939000010300000012 |
| node3 | 390000103      | 99939000010300000013 |
| node4 | 390000103      | 99939000010300000014 |

```
Change Date: 03/01/2019
```

```
Reason: Initial installation
```

| Node  | Support Serial | Node Serial |
|-------|----------------|-------------|
| node1 | 310000101      | 310000101   |
| node2 | 310000102      | 310000102   |
| node3 | 310000103      | 310000103   |
| node4 | 310000104      | 310000104   |

The following example displays the history of an evaluation cluster that was upgraded to capacity pools licensing:

```
cluster1::> system license show-serial-numbers
```

```
Change Date: 06/06/2019
```

```
Reason: Conversions from capacity tiers evaluation to pools
```

| Node  | Support Serial | Node Serial          |
|-------|----------------|----------------------|
| node1 | 390000103      | 99939000010300000011 |
| node2 | 390000103      | 99939000010300000012 |
| node3 | 390000103      | 99939000010300000013 |
| node4 | 390000103      | 99939000010300000014 |

```
Change Date: 03/01/2019
```

```
Reason: Initial installation
```

| Node  | Support Serial | Node Serial          |
|-------|----------------|----------------------|
| node1 | evaluation     | 99887766554433221101 |
| node2 | evaluation     | 99887766554433221102 |
| node3 | evaluation     | 99887766554433221103 |
| node4 | evaluation     | 99887766554433221104 |

## system license show-status

Display license status

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

This command displays the status of all Data ONTAP licenses.

### Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>`, ... parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-status {not-compliant|eval|partially-installed|valid|not-installed|not-applicable|not-known}] - Current State**

If you use this parameter, the command displays information only about licenses that match the given status.

**[-license <Licensable Package>] - License**

If you use this parameter, the command displays information only about licenses that match the given

license.

### **[-scope {site|cluster|node|pool}] - License Scope**

If you use this parameter, the command displays information only about licenses that match the given scope.

### **[-detailed-status <text>,...] - Detailed Status**

If you use this parameter, the command displays information only about licenses that match the given detailed-status.

## **Examples**

The following example displays the license status of the cluster:

```
cluster1::> system license show-status
Status      License                Scope      Detailed Status
-----
partially-installed
              CIFS                node      License missing on: Node2-
Cluster1.
              SnapRestore    node      License missing on: Node2-
Cluster1.
valid
              FCP                node      -
              FabricPool      cluster   The system is using 1TB, and can
use up to 25TB.
not-installed
              NFS                -        -
              iSCSI            -        -
              SnapMirror       -        -
              FlexClone       -        -
              SnapVault       -        -
              SnapLock        -        -
              SnapManagerSuite -        -
              SnapProtectApps -        -
              V_StorageAttach -        -
              Insight_Balance -        -
              OCShift         -        -
              TPM             -        -
              VE              -        -
              DP_Optimized    -        -
not-applicable
              Cloud           -        -
              Select          -        -
20 entries were displayed.
```

# system license show

Display licenses

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description

The `system license show` command displays the information about licenses in the system.

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>`, ... parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-serial-number <text>] - Serial Number**

If you use this parameter, the command displays information only about the licenses that matches the serial number you specify.

**[-package <Licensable Package>] - Package**

If you use this parameter, the command displays information only about the specified package.

**[-owner <text>] - Owner**

If you use this parameter, the command displays information only about the packages that matches the owner name you specify.

**[-expiration <MM/DD/YYYY HH:MM:SS>] - Expiration**

If you use this parameter, the command displays information only about the licenses that have the expiration date you specify.

**[-description <text>] - Description**

If you use this parameter, the command displays information only about the licenses that matches the description you specify.

**[-type {license|site|demo|subscr|capacity|capacity-per-term|enabled}] - Type**

If you use this parameter, the command displays information only about the licenses that have the license type you specify.

**[-customer-id <text>] - Customer ID**

If you use this parameter, the command displays information only about the licenses that have the customer-id you specify.

**[-installed-license <text>] - Installed License Name**

If you use this parameter, the command displays information only about the licenses that match the installed license you specify.

### **[-host-id <text>] - Host Id**

If you use this parameter, the command displays information only about the license that have the host id you specify.

### **[-capacity {<integer>[KB|MB|GB|TB|PB]}] - License Capacity**

If you use this parameter, the command displays information only about the licenses that match the capacity you specify.

## **Examples**

The following example displays information about all licensed packages in the cluster:

```
cluster1::> system license show

Serial Number: 1-81-0000000000000001122334455
Owner: node2
Installed License: Legacy Key
Capacity: -
Package          Type      Description          Expiration
-----
NFS              license  NFS License        -
CIFS             license  CIFS License        -
iSCSI           license  iSCSI License        -
SnapRestore     license  SnapRestore License -
FlexClone       license  FlexClone License   -
S3              license  S3 License          -

Serial Number: 123456789
Owner: node1
Installed License: Core Bundle
Capacity: 10TB
Package          Type      Description          Expiration
-----
NFS              capacity NFS License        -
CIFS             capacity CIFS License        -
iSCSI           capacity iSCSI License        -
SnapRestore     capacity SnapRestore License -
FlexClone       capacity FlexClone License -
S3              capacity S3 License          -
12 entries were displayed.
```

## **system license update-leases**

Begin lease reconciliation

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description

The `system license update-leases` command attempts to update (that is, renew) any capacity pool leases that have expired.

## Parameters

### `[-node {<nodename>|local}]` - Nodes to Attempt Renewal

This optional parameter directs the system to update leases for only the specified nodes.

### `[-force {true|false}]` - Force Renewal of Valid Leases

This optional parameter, if set with a value of "true", directs the system to update all leases for a node, not just those that have expired.

## Examples

The following example updates all leases on a node:

```
cluster1::*> system license update-leases -node node1 -force true
Number of Leases Updated: 3
Number of Leases Not Updated: 0 (error), 0 (already up-to-date)
```

## system license capacity show

(DEPRECATED)-Show license capacity status

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description



This command is deprecated and may be removed in a future release of Data ONTAP. Use the "[system license show-status](#)" command.

The `system license capacity show` command displays the information about the licenses in the system that are specifically related to storage capacity limits.

## Parameters

### `{ [-fields <fieldname>,...]`

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

### `[-instance ]`

If you specify the `-instance` parameter, the command displays detailed information about all fields.

### `[-serial-number <Node Serial Number>]` - Serial Number

If you use this parameter, the command displays information only about the capacity-related licenses that matches the serial number you specify.

**[-package <Licensable Package>] - Package**

If you use this parameter, the command displays information only about the package you specify.

**[-owner <text>] - Owner**

If you use this parameter, the command displays information only about the capacity-related licenses that have the owner you specify.

**[-max-capacity {<integer>[KB|MB|GB|TB|PB]}] - Maximum Capacity**

If you use this parameter, the command displays information only about the capacity-related licenses that have the maximum amount of attached storage capacity you specify.

**[-current-capacity {<integer>[KB|MB|GB|TB|PB]}] - Current Capacity**

If you use this parameter, the command displays information only about the capacity-related licenses that apply to the node with the current attached capacity you specify.

**[-expiration <MM/DD/YYYY HH:MM:SS>] - Expiration Date**

If you use this parameter, the command displays information only about the capacity-related licenses that have the expiration date you specify.

**[-reported-state {evaluation|warning|missing|enforcement|installed}] - Reported State**

If you use this parameter, the command displays information only about the capacity-related licenses that have the reported state you specify.

**[-node {<nodename>|local}] - Node Name**

If you use this parameter, the command displays information only about the capacity-related licenses that apply to the node you specify.

## Examples

The following example displays information about all capacity-related licensed packages in the cluster, for a hypothetical cluster of four nodes:

Note that for some nodes below, the maximum capacity is displayed as "-" (meaning "unlimited"). This happens when there is no capacity license for the node - the node is operating with a limited-time temporary capacity license.



```

cluster1::> system license capacity show

Node:          node1
Serial Number: 1-81-0000000000001234567890123456
                Max  Current
Package          Capacity Capacity Expiration
-----
Select          2TB    15.81GB 4/11/2016 00:00:00
Node:          node2
Serial Number: 1-81-00000000000000000000123456788
                Max  Current
Package          Capacity Capacity Expiration
-----
Select          -    10.40TB 4/11/2016 00:00:00
Node:          node3
Serial Number: 1-81-00000000000000000000123456789
                Max  Current
Package          Capacity Capacity Expiration
-----
Select          -    10.40TB 4/11/2016 00:00:00
Node:          node4
Serial Number: 1-81-0000000000001234567890123456
                Max  Current
Package          Capacity Capacity Expiration
-----
Select          2TB    15.81GB 4/11/2016 00:00:00

```

## Related Links

- [system license show-status](#)

## system license entitlement-risk show

Display Cluster License Entitlement Risk

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

This command displays information about license entitlement risk of the cluster for each license package. The command displays license package name, entitlement risk, corrective action to reduce the entitlement risk for each package, and the names and serial numbers for the nodes that do not have a node-locked license for a given package. If command is used with the "-detail" parameter, the output displays the names and serial numbers for all nodes in the cluster instead of only the nodes missing a node-locked license. It also displays whether each node has a license and if the features corresponding to the package are used in the past week.

License entitlement risk does not apply to base license. If a node has a site or a valid demo license for the

given package, the entitlement risk will be shown as "medium" and the nodes missing a node-locked license will be displayed. The corrective action, if the cluster has a site license for the given package is, "Verify all controllers are entitled". If the entitlement risk is high, the corrective action is "Acquire node-locked license". For the low entitlement risk and if the cluster is unlicensed for a given package, the corrective action is "None". If the license entitlement risk cannot be computed because of infrastructure issues, the entitlement risk is shown as "unknown" and the corrective action is displayed as "Verify system health". For more information regarding license entitlement risk, see + <http://mysupport.netapp.com/licensing/ontapentitlementriskstatus>

## Parameters

**{ [-fields <fieldname>,...]**

With this parameter, you can specify which fields should be displayed by the command. License package names and node serial numbers are always displayed.

**| [-detail ]**

If you use this parameter, the command displays the license package name, entitlement risk, corrective action, all nodes' names, their serial numbers, whether a node-locked license is present and whether a given license package has been in use in the past week for each node in the cluster.

**| [-instance ] }**

If this parameter is used, the command displays values for all fields for each license package and each node in the cluster individually.

**[-package <Licensable Package>] - Package Name**

If you use this parameter, the command displays information only for the specified license package.

**[-serial-number <text>] - Node Serial Number**

If you use this parameter, the command displays information only for the node with the specified serial number. The displayed entitlement risk and corrective action apply to the entire cluster.

**[-node-name <text>] - Node Name**

If you use this parameter, the command displays information only for the node with the specified name. The displayed entitlement risk and corrective action apply to the entire cluster.

**[-risk {high|medium|low|unlicensed|unknown}] - Entitlement Risk**

If you use this parameter, the command displays information only for the license packages that have the specified license entitlement risk.

**[-action <text>] - Corrective Action**

If you use this parameter, the command displays information only for the license packages which need the specified corrective action to reduce entitlement risk.

**[-is-licensed {true|false}] - Is Node-Locked License Present**

If you use this parameter, the command displays information only for the license packages for which at least one node in the cluster has a node-locked license. It also displays the nodes in the cluster which do not have a node-locked license.

**[-in-use {true|false}] - Usage Status**

If you use this parameter, the command displays information only for the license packages with corresponding features in use.

**[`-missing-serial-numbers <text>,...`] - Serial Numbers Missing a Node-Locked License**

If you use this parameter, the command displays the packages for which the node with the specified serial number does not have a node-locked license.

**[`-missing-node-names <text>,...`] - Node Names Missing a Node-Locked License**

If you use this parameter, the command displays all the packages for which the node with the specified name does not have a node-locked license.

**[`-action-code {acquire-license|adjust-capacity|verify-entitlement|verify-system-health|none}`] - Corrective Action Code**

If you use this parameter, the command displays information only for the license packages which need specified corrective action code to reduce entitlement risk. This parameter is same as the parameter "action".

## Examples

The following example displays the information for license package NFS. NFS is unlicensed in the cluster and no action is necessary to reduce the entitlement risk. The nodes, cluster1-01 and cluster-02, are missing a node-locked license. The serial numbers for both nodes are also displayed.

```
cluster1::> system license entitlement-risk show
Package          Entitlement Risk Corrective Action
-----
NFS              unlicensed      None
                Nodes Without a Node-Locked License
-----
cluster1-01     1-81-00000000000000004073806282
cluster1-02     1-81-00000000000000004073806283
```

The following example displays the information for license package CIFS. The cluster has high entitlement risk for CIFS. The command displays serial numbers for all nodes in the cluster. Both nodes are missing a node-locked CIFS license. Node with serial number 1-81-00000000000000004073806282 has used CIFS feature in the past week, and the node with serial number 1-81-00000000000000004073806283 has not used this feature in the past week.

```
cluster1::> system license entitlement-risk show -detail
Package          Entitlement Risk Corrective Action
-----
CIFS             high          Acquire a node-locked license
                Serial Numbers          Licensed Usage
                -----
                1-81-00000000000000004073806282 false      true
1-81-00000000000000004073806283 false      false
```

# system license license-manager check

Display license manager status

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

## Description

The `system license license-manager check` checks the connectivity status of a node to the License Manager that the node was configured to use. The status of a node might indicate that the License Manager is inaccessible. If so, the status message contains additional text in parentheses. The text options and descriptions are as follows:

- `license_expired` : The License Manager has a license, but it is expired.
- `network_error` : The node is unable to establish basic network connectivity.
- `no_valid_license` : The License Manager does not have a valid capacity pool license.

All other values indicate an internal error.

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node**

This parameter directs the system to display results for the License Manager configured for the specified node.

**[-status <text>] - Status**

This parameter directs the system to display results for the given status message.

## Examples

The following examples check the status of the configured License Manager, before and after its license has expired:

```

cluster1::*> system license license-manager check -node nodel
Node: nodel
LM status: License Manager (1.2.3.4:5678) is accessible.

cluster1::*> system license license-manager check

Node                Status
-----
nodel                License Manager (1.2.3.4:5678) is accessible.
node2                License Manager (1.2.3.4:5678) is accessible.
2 entries were displayed.
cluster1::*> system license license-manager check -node nodel
Node: nodel
LM status: License Manager (1.2.3.4:5678) is inaccessible
(license_expired).

cluster1::*> system license license-manager check

Node                Status
-----
nodel                License Manager (1.2.3.4:5678) is inaccessible
(license_expired).
node2                License Manager (1.2.3.4:5678) is inaccessible
(license_expired).
2 entries were displayed.

```

## system license license-manager modify

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

The `system license license-manager modify` command modifies the configuration information for the License Manager the system is using.

### Parameters

**[-host <text>] - License Manager Host**

Sets the specified host, which can either be a fully qualified domain name (FQDN) or an IP address.

### Examples

The following example modifies information about the License Manager configuration:

```
cluster1::*> system license license-manager modify -host
myhost.mycompany.com
```

## system license license-manager show

Display license manager information

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

The `system license license-manager show` command displays the information about the current License Manager configuration.

### Examples

The following example displays information about current License Manager configuration:

```
cluster1::*> system license license-manager show

License Manager Host: 1.2.3.4
```

## system license status show

(DEPRECATED)-Display license status

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description



This command is deprecated and may be removed in a future release of Data ONTAP. Use the `system license show-status` command.

This command displays the list of licensable packages in the system and their current licensing status.

### Parameters

`{ [-fields <fieldname>,...]`

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

`| [-instance ] }`

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-package <Licensable Package>] - Package Name**

If you use this parameter, the command displays information only about the specified package.

**[-method {none|license|site|demo|subscr|capacity|enabled}] - Licensed Method**

If you use this parameter, the command displays information only about the packages with the specified licensed method.

**[-expiration <MM/DD/YYYY HH:MM:SS>] - Expiration Date**

If you use this parameter, the command displays information only about the licenses that have the expiration date you specify.

**[-description <text>] - Description**

If you use this parameter, the command displays information only about the licenses that match the description you specify.

**[-status-details <text>] - Additional Information About Status**

This option displays additional information regarding the cluster-level license status for license methods.

## Examples

The following example displays the license status of the cluster:

```
cluster1::> system license status show
```

| Package             | Licensed Method | Expiration          | Status Details                        |
|---------------------|-----------------|---------------------|---------------------------------------|
| Base                | site            | -                   | -                                     |
| NFS                 | site            | -                   | -                                     |
| CIFS                | demo            | 12/7/2015 00:00:00  | Demo expires on<br>given date         |
| iSCSI               | none            | -                   | -                                     |
| FCP                 | none            | -                   | -                                     |
| SnapRestore         | none            | -                   | -                                     |
| SnapMirror          | none            | -                   | -                                     |
| FlexClone           | none            | -                   | -                                     |
| SnapVault           | none            | -                   | -                                     |
| SnapLock            | none            | -                   | -                                     |
| SnapManagerSuite    | none            | -                   | -                                     |
| SnapProtectApps     | none            | -                   | -                                     |
| V_StorageAttach     | none            | -                   | -                                     |
| SnapLock_Enterprise | none            | -                   | -                                     |
| Insight_Balance     | none            | -                   | -                                     |
| OCSHIFT             | none            | -                   | -                                     |
| Cloud               | subscr          | 12/15/2015 00:00:00 | Subscription<br>expires on given date |

17 entries were displayed.

## Related Links

- [system license show-status](#)



## Copyright information

Copyright © 2022 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.