NetApp

system license commands

ONTAP 9.3 commands

NetApp
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Table of Contents

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 AAAAAAAAAAAAAAAAAAAAAAAAAAAA and BBBBBBBBBBBBBBBBBBBBBBBBBBBB to the cluster

```
cluster1::> system license add -license-code AAAAAAAAAAAAAAAAAAAAAAAAAAAA,
BBBBBBBBBBBBBBBBBBBBBBBBBBBB
```

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.

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:

```
cluster1::> system license clean-up -n -unused -expired
Serial number: 1-80-000011
Owner: cluster1
Package                     Reason
------------------------
-------------------------------------------------------
SnapLock                    Demo License has expired
SnapProtectApps             Demo License has expired

Serial number: 1-81-0000000000000004062522917
Owner: none
Package                     Reason
------------------------
-------------------------------------------------------
NFS                         Serial number is not used by any node in the
cluster
CIFS                        Serial number is not used by any node in the
cluster
```

The following example deletes the expired licenses:

```
cluster1::> system license clean-up -expired
2 demo licenses deleted.
```

The following example deletes the unused licenses:

```
cluster1::> system license clean-up -unused
2 unused licenses deleted.
```

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 1-81-000000000000000000000123456 from the cluster:

```
cluster1::> system license delete -serial-number 1-81-
000000000000000000000123456 -package CIFS
```

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}]` - 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}] - 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}] - Type

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

[-legacy {yes|no}] - Legacy

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

Examples

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

```
cluster1::> system license show
Serial Number: 1-80-123456
Owner: cluster1
Package          Type    Description           Expiration
---------------- ------- --------------------- --------------------
Base             site    Cluster Base License  -
NFS              site    NFS License           -
iSCSI            site    iSCSI License         -

Serial Number: 1-81-0000000000000001122334455
Owner: node1
Package          Type    Description           Expiration
---------------- ------- --------------------- --------------------
NFS              license NFS License           -
SnapRestore      license SnapRestore License   -
5 entries were displayed.
```

system license capacity show

(DEPRECATED)-Show license capacity status

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

Description

(i)   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 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 <Node Serial Number>] - 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                    1-81-000000000000004073806282
          cluster1-02                    1-81-000000000000004073806283
```

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 1-81-000000000000004073806282 has used CIFS feature in the past week, and the node with serial number 1-81-000000000000004073806283 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
                    ------------------------------ -------- -----
                    1-81-000000000000004073806282 false    true
1-81-000000000000004073806283 false    false
```

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}] - 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
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
expires on given date
17 entries were displayed.
```

Related Links

- system license show-status