

system license commands

ONTAP 9.7 commands

NetApp February 11, 2024

This PDF was generated from https://docs.netapp.com/us-en/ontap-cli-97/system-license-add.html on February 11, 2024. Always check docs.netapp.com for the latest.

Table of Contents

system license commands	
system license add	
system license clean-up	
system license delete	
system license show-aggregates	4
system license show-status	6
system license show	
system license update-leases	
system license capacity show	
system license entitlement-risk show	
system license license-manager check	
system license license-manager modify	
system license license-manager show	
system license status show	

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

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 -----CIFS License has expired Serial number: 4067154888 Owner: none Reason Package Cloud License has expired Serial number: 1-81-0000000000000004067154999 Owner: none Reason Package 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 Reason Package Cloud Feature would be impaired upon removal Serial number: 4067154779 Owner: node2

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 1-81-0000000000000000000123456 from the cluster:

```
cluster1::> system license delete -serial-number 1-81-
0000000000000000000123456 -package CIFS
```

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 <code>-fields</code> <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:

_	d Physica					
Node	Aggreg	gate	Size	Size	Lease Expiration	Status
						· -
node1			0-	0.55		-
	root1		0В	2GB	-	lease-
not-req	uired					
	root2	(mirror)	0B	2GB	-	lease-
not-req	uired					
	aggr1		20GB	20GB	6/21/2018 18:10:0	00 lease-
up-to-d	late					
	aggr2	(mirror)	10GB	10GB	6/21/2018 20:00:0	0 lease-
up-to-d	late					
node2						
	root.1	(mirror)	0в	2GB	_	lease-
not-req		, /				
109	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						
-	(mirror)	0B	2GB	_		lease-
not-required	,	-				
aggr3		15GB	ΩB	6/21/2018	20.00.00	
aggregate-delete	. A	1000	0.5	0,21,2010	20.00.00	
	(mirror)	15GB	15CP	6/21/2018	12.00.00	lease-
expired	(IIIIII I OI)	TOGD	1000	0/21/2010	12.00.00	Tease-
	(m; nnon)	1 E C D	1 F CD	6/21/2010	21.00.00	10000
	(mirror)	15GB	IDGB	6/21/2018	21:00:00	rease-
up-to-date		1 5 0 5	4 - ~-	6 /01 /001	01 00 00	7
aggr6		15GB	15GB	6/21/2018	21:00:00	plex-
deleted						
aggr7		15GB	14GB	6/21/2018	21:00:00	
aggregate-licens	se-size-decreased					
aggr8	(mirror)	0B	14GB	_		lease-
missing						
node4						
root3	(mirror)	0B	2GB	_		lease-
not-required						
root4		0B	2GB	-		lease-
not-required						
=	(mirror)	15GB	0B	6/21/2018	20:00:00	
aggregate-delete						
aggr4		15GB	15GB	6/21/2018	12:00:00	lease-
expired		_ 3 0 2	2002	, , _ 0 1 0		
aggr5		15GB	15CP	6/21/2018	21 • 00 • 00	lease-
up-to-date		1000	1000	0/21/2010	21.00.00	16036
-	(mirror)	15CD	ΛD	6/21/2010	21.00.00	nlow
	(mirror)	15GB	UB	6/21/2018	21:00:00	brex-
deleted		1	1 1	6 /01 /001	01 00 00	
	(mirror)	15GB	14GB	6/21/2018	21:00:00	
	se-size-decreased					
aggr8		0B	14GB	-		lease-
missing						

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 <code>-fields</code> <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:

Status	License		Detailed Status
partiall	 y-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 t	o 25TB.		
not-inst	alled		
	NFS	_	-
	iSCSI	_	-
	SnapMirror	_	-
	FlexClone	_	-
	SnapVault	_	-
	SnapLock	_	-
	SnapManagerSuite	_	-
	SnapProtectApps	_	-
	V_StorageAttach	_	-
	Insight_Balance	_	-
	OCShift	_	-
	TPM	-	-
	VE	-	-
	DP_Optimized	-	-
not-appl	icable		
	Cloud	-	-
	Select	_	-

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}] - 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
               Type Description Expiration
Package
              site Cluster Base License -
Base
NFS
              site NFS License
       site iSCSI License
iSCSI
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 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 <code>-fields</code> <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: 1-81-000000000001234567890123456
                     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
                Capacity Capacity Expiration
Package
_______
                     - 10.40TB 4/11/2016 00:00:00
Select
          node3
Serial Number: 1-81-000000000000000000123456789
                      Max Current
Package
                 Capacity Capacity Expiration
__________
                       - 10.40TB 4/11/2016 00:00:00
Select
Node: node4
Serial Number: 1-81-000000000001234567890123456
                     Max Current
           Capacity Capacity Expiration
Package
___________
                     2TB 15.81GB 4/11/2016 00:00:00
Select
```

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.

$\label{lem:code} $$ \{acquire-license \mid adjust-capacity \mid verify-entitlement \mid verify-system-health \mid 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.

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 1-81-000000000000000004073806282 has used CIFS feature in

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 <code>-fields</code> <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 (privilege: advanced)

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

[-status <text>] - Status (privilege: advanced)

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 node1
Node: node1
LM status: License Manager (1.2.3.4:5678) is accessible.
cluster1::*> system license license-manager check
Node
                 Status
node1
                 License Manager (1.2.3.4:5678) is accessible.
                 License Manager (1.2.3.4:5678) is accessible.
node2
2 entries were displayed.
cluster1::*> system license license-manager check -node node1
Node: node1
LM status: License Manager (1.2.3.4:5678) is inaccessible
(license expired).
cluster1::*> system license license-manager check
Node
                Status
                 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 (privilege: advanced)

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}] - 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:

Pagkago	Tigongod Mothad	Expiration	Status Dotails
-	Licensed Method	-	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 Enterpri			
	none	_	_
Insight_Balance	none	_	_
OCShift		_	_
	subscr	12/15/2015 00:00:00	Subscription
expires on given (12, 13, 2313 33.30.00	

Related Links

• system license show-status

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