

# cluster kernel-service commands

**ONTAP 9.9.1 commands** 

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# cluster kernel-service commands

# cluster kernel-service show

Display cluster service state in the kernel

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

# Description

The `cluster kernel-service show` command displays the following information from the master node for each node in the cluster:

- Node name
- The quorum status of that node
- The availability status of that node
- The operational status of that node

# **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.

#### [-master-node {<nodename>|local}] - Node (privilege: advanced)

The node in the cluster where the information be being reported from. If this parameter is not specified, the command displays information about all nodes in the cluster.

#### [-cluster-node <text>] - Cluster Node (privilege: advanced)

The node in the cluster that the information listed is regarding. If this parameter is specified, the command displays information only about the nodes with the specified state value.

#### [-status-quorum {out-of-quorum|in-quorum}] - Quorum Status (privilege: advanced)

The quorum status of the node specified by -cluster-node. If this parameter is specified, the command displays information only about the nodes with the specified state value.

#### [-status-avail {false|true|unknown}] - Availability Status (privilege: advanced)

The availability status of the node specified by -cluster-node. If this parameter is specified, the command displays information only about the nodes with the specified state value.

# [-status-oper {unknown|operational|not-operational}] - Operational Status (privilege: advanced)

The operational status of the node specified by -cluster-node. If this parameter is specified, the

command displays information only about the nodes with the specified state value.

## **Examples**

The following example displays information about all nodes in the cluster:

```
cluster1::*> cluster kernel-service show
             Cluster Quorum
Master
                                       Availability
Operational
Node
             Node
                             Status Status Status
_____ _____
_____
cluster1-01 cluster1-01 in-quorum true
operational
              cluster1-02 in-quorum true
operational
2 entries were displayed.
cluster1::*> cluster kernel-service show -instance
Master Node: cluster1-01
     Cluster Node: cluster1-01
    Quorum Status: in-quorum
Availability Status: true
Operational Status: operational
Master Node: cluster1-01
     Cluster Node: cluster1-02
     Quorum Status: in-quorum
Availability Status: true
Operational Status: operational
2 entries were displayed.
```

# cluster kernel-service config modify

Modify cluster service state in the kernel

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

## Description

The cluster kernel-service config modify used to manage the cluster kernel-service subsystem for a node.

### **Parameters**

```
-node {<nodename>|local} - Node (privilege: advanced)
```

The node in the cluster where the configuration is being modified.

#### [-kcs-enable-takeover {true|false}] - Initiated Takeover Enabled (privilege: advanced)

This indicates whether the kernel service subsystem for this node will initiate a takeover of any node determined to be *out* of *quorum* if allowed by the HA subsystem.

## **Examples**

```
cluster1::*> cluster kernel-service config modify -node cluster1-01 -kcs
-enable-core false
```

# cluster kernel-service config show

Display cluster service state in the kernel

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

# **Description**

The cluster kernel-service config show is used to display the configuration of the cluster kernel service subystem for one or more nodes.

## **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 (privilege: advanced)

The node in the cluster where the information be being reported from. If this parameter is not specified, the command displays information about all nodes in the cluster.

#### [-clam-master-id <integer>] - CLAM Master Node ID (privilege: advanced)

The node ID of the master node for the cluster. If this parameter is specified, the command displays information only about the nodes with the specified state value.

#### [-kcs-enable-takeover {true|false}] - Initiated Takeover Enabled (privilege: advanced)

Indicates if the distributed kernel service subystem will initiate a takeover of any node determined to be *out of quorum* if the HA subsystem allows it. If this parameter is specified, the command displays information only about the nodes with the specified state value.

#### [-kcs-enabled {true|false}] - KCS Enabled (privilege: advanced)

The state of the kernel service subsystem on the specified node. If this parameter is specified, the command displays information only about the nodes with the specified state value.

#### [-quorum-epoch <integer>] - Quorum Epoch (privilege: advanced)

The number of quorum changes for this node.

## **Examples**

```
cluster1::*> cluster kernel-service config show
Node
                       Failover Core Master
                                                       FSM
                Enabled Enabled Enabled Node
                                                       State
_____
cluster1-01 true false false cluster1-01 Master:
Waiting for heartbeat timeout
               true false false cluster1-01 Non-Master:
cluster1-02
Waiting for backoff timeout
2 entries were displayed.
cluster1::*> cluster kernel-service config show -instance
Node: cluster1-01
                    Master Node: cluster1-01
                 Master Node ID: 1000
                       Enabled: true
       Initiated Takeover Enabled: false
Initiated Core on Takeover Enabled: false
               Current FSM State: Master: Waiting for heartbeat timeout
                Running Version: 1
                  Quorum Epoch: 115
                 Voting Status: false
                 CHAAQ Enabled: true
Node: cluster1-02
                    Master Node: cluster1-01
                 Master Node ID: 1000
                       Enabled: true
       Initiated Takeover Enabled: false
Initiated Core on Takeover Enabled: false
               Current FSM State: Non-Master: Waiting for backoff
timeout
                Running Version: 1
                   Quorum Epoch: 115
                  Voting Status: false
                  CHAAQ Enabled: true
2 entries were displayed.
```

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