

# cluster kernel-service commands

**ONTAP 9.7 commands** 

NetApp February 11, 2024

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

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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 <code>-cluster-node</code> . 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 <code>-cluster-node</code> . 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 <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)

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
                       Failover Core Master
                                                       FSM
                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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