



cluster kernel-service commands

ONTAP 9.7 commands

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Table of Contents

- cluster kernel-service commands 1
- cluster kernel-service show 1
- cluster kernel-service config modify 2
- cluster kernel-service config show 3

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

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

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

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

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

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
Master          Cluster          Quorum          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

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

`[-kcs-enable-takeover {true|false}] - Initiated Takeover Enabled`

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 subsystem 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`

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`

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`

Indicates if the distributed kernel service subsystem 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`

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

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
cluster1-02      true    false   false   cluster1-01   Non-Master:
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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