



cluster kernel-service commands

ONTAP 9.6 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
Master          Cluster          Quorum          Availability
Operational
Node            Node            Status          Status          Status
-----
cluster1-01     cluster1-01     in-quorum       true
operational
cluster1-02     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 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 (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 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 (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
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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