## ORACLE SOLARIS™ CLUSTER QUICK REFERENCE

This reference provides quick lookup support for the Oracle Solaris Cluster command-line interface. Many tasks require cluster preparation before you issue these commands. For information about cluster preparation, refer to the appropriate cluster administration manual.

### QUORUM ADMINISTRATION

<table>
<thead>
<tr>
<th>Task</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add a SCSI Quorum Device</td>
<td><code>clquorum add device</code></td>
</tr>
<tr>
<td>Add a NAS Quorum Device</td>
<td><code>clquorum add -t netapp_nas -p filer=NASdevicename, lun_id=IDnumdevice Nasdevicename</code></td>
</tr>
<tr>
<td>Add a Quorum Server</td>
<td><code>clquorum add -t quorumserver -p qghost=IPaddress, port=portnumber quorumservername</code></td>
</tr>
<tr>
<td>Remove a Quorum Device</td>
<td><code>clquorum remove device</code></td>
</tr>
</tbody>
</table>

### RESOURCE TYPE ADMINISTRATION

<table>
<thead>
<tr>
<th>Task</th>
<th>Command</th>
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<tbody>
<tr>
<td>Register a Resource Type</td>
<td><code>clresourcetype register type</code></td>
</tr>
<tr>
<td>Remove a Resource Type</td>
<td><code>clresourcetype unregister</code></td>
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</table>

### RESOURCE GROUP ADMINISTRATION

<table>
<thead>
<tr>
<th>Task</th>
<th>Command</th>
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<tbody>
<tr>
<td>Create a Failover Resource Group</td>
<td><code>clresourcegroup create -g group lh-resource</code></td>
</tr>
<tr>
<td>Create a Scalable Resource Group</td>
<td><code>clresourcegroup create -S group</code></td>
</tr>
<tr>
<td>Bring Online All Resource Groups</td>
<td><code>clresourcegroup online +</code></td>
</tr>
<tr>
<td>Delete a Resource Group</td>
<td><code>clresourcegroup delete group</code></td>
</tr>
<tr>
<td>Delete a Resource Group and All of Its Resources</td>
<td><code>clresourcegroup delete -F group</code></td>
</tr>
<tr>
<td>Switch the Current Primary Node of a Resource Group</td>
<td><code>clresourcegroup switch -n nodename group</code></td>
</tr>
<tr>
<td>Move a Resource Group Into the UNMANAGED State</td>
<td><code>clresourcegroup unmanage group</code></td>
</tr>
<tr>
<td>Suspend Automatic Recovery of a Resource Group</td>
<td><code>clresourcegroup suspend group</code></td>
</tr>
<tr>
<td>Resume Automatic Recovery of a Resource Group</td>
<td><code>clresourcegroup resume group</code></td>
</tr>
<tr>
<td>Change a Resource Group Property</td>
<td><code>clresourcegroup set -t type -p name=value</code></td>
</tr>
<tr>
<td>Add a Node To a Resource Group</td>
<td><code>clresourcegroup add-node -n nodename group</code></td>
</tr>
<tr>
<td>Remove a Node From a Resource Group</td>
<td><code>clresourcegroup remove-node -n nodename group</code></td>
</tr>
</tbody>
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### RESOURCE ADMINISTRATION

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<tr>
<td>Create a Logical Hostname Resource</td>
<td><code>clreslogicalhostname create -g group</code></td>
</tr>
<tr>
<td>Create a Shared Address Resource</td>
<td><code>clressharedaddress create -g group</code></td>
</tr>
<tr>
<td>Create a Resource</td>
<td><code>clresource create -g group -t type resource</code></td>
</tr>
<tr>
<td>Remove a Resource</td>
<td><code>clresource delete resource</code></td>
</tr>
<tr>
<td>Disable a Resource</td>
<td><code>clresource disable resource</code></td>
</tr>
<tr>
<td>Change a Single-Value Resource Property</td>
<td><code>clresource set -t type -p name=value +</code></td>
</tr>
<tr>
<td>Add a Value to a List of Property Values</td>
<td><code>clresource set -p name+=value resource</code></td>
</tr>
<tr>
<td>Clear the STOP_FAILED Error Flag on a Resource</td>
<td><code>clresource clear -f STOP_FAILED resource</code></td>
</tr>
</tbody>
</table>

### HAStorage Plus Resource

- `clresource create -t HAStoragePlus -g group -p FileSystemMountPoints=mount-point-list -p Affinityon=true rs-hasp`
DEVICE ADMINISTRATION

Add a VxVM Device Group

```
# cldevicegroup create -t vxvm -n node-list -p failback=true vxdevgrp
```

Remove a Device Group

```
# cldevicegroup delete devgrp
```

Switch a Device Group to a New Node

```
# cldevicegroup switch -n nodename devgrp
```

Bring Offline a Device Group

```
# cldevicegroup offline devgrp
```

Update Device IDs for the Cluster

```
# cldevice refresh diskname
```

MISCELLANEOUS ADMINISTRATION AND MONITORING

Add a Node to Cluster

```
From the node to be added, which has access:

(clnode add -c clusternime -n nodename -e endpoint1, endpoint2 \
-e endpoint3, endpoint4)

Remove a Node From the Cluster

```
From the node to be removed, which is in noncluster mode and has access:

(clnode remove)

Switch All Resource Groups and Device Groups Off of a Node

```
(clnode evacuate nodename)

Manage the Interconnect Interfaces

```
These commands disable a cable so that maintenance can be performed, then enable the same cable afterward.

(clinterconnect disable nodename:endpoint)
(clinterconnect enable nodename:endpoint)

Display the Status of All Cluster Components

```
(clnode show | grep nodename)

Display the Status of One Type of Cluster Component

```
(command status)

Display the Complete Cluster Configuration

```
(clnode show)

Display the Configuration of One Type of Cluster Component

```
(command show)

List One Type of Cluster Component

```
(command list)

Display Solaris Cluster Release and Version Information

```
(clnode show-rev -v)

Map Node ID to Node Name

```
(clnode show | grep nodename)

Enable Disk Attribute Monitoring on All Cluster Disks

```
(cltelemetryattribute enable -t disk rbyte.rate wbyte.rate \ read.rate write.rate)

Disable Disk Attribute Monitoring on All Cluster Disks

```
(cltelemetryattribute disable -t disk rbyte.rate wbyte.rate \ read.rate write.rate)

SHUTTING DOWN AND BOOTING A CLUSTER

Shut Down the Entire Cluster

```
# cluster shutdown
```

From one node:

```
# clnode evacuate
```

Shut Down a Single Node

```
# shutdown
```

Boot a Single Node

```
(ok> boot
Select (b)oot or (i)nterpreter: b)
```

(SPARC)

(x86)

Reboot a Node Into Noncluster Mode

```
(ok> boot -x
Select (b)oot or (i)nterpreter: b -x)
```

(SPARC)

(x86)