

## Oracle Solaris Cluster Cheat Sheet

```
# /usr/cluster/bin/cluster list-cmds -v
```

Command	Short name	Description
claccess	claccess	Manage Oracle Solaris Cluster access policies
cldevice	cldev	Manage Oracle Solaris Cluster devices
cldevicegroup	cldg	Manage Oracle Solaris Cluster device groups
clinterconnect	clintr	Manage Oracle Solaris Cluster interconnects
clnasdevice	clnas	Manage access to NAS device for Oracle Solaris Cluster
clnode	clnode	Manage Oracle Solaris Cluster nodes
clpstring	clps	Manage Oracle Solaris Cluster private strings
clquorum	clq	Manage Oracle Solaris Cluster quorums
clreslogicalhostname	clrslh	Manage Oracle Solaris Cluster resources for logical host names
clresource	clrs	Manage resources for Oracle Solaris Cluster data services
clresourcegroup	clrg	Manage resource groups for Oracle Solaris Cluster data services
clresourcectype	clrt	Manage resource types for Oracle Solaris Cluster data services
clressharedaddress	clrssa	Manage Oracle Solaris Cluster resources for shared addresses
clsetup	clsetup	Configure Oracle Solaris Cluster interactively
clsnmpshost	clsnmpshost	Administer Oracle Solaris Cluster SNMP hosts
clsnmpmib	clmib	Administer Oracle Solaris Cluster SNMP MIB
clsnmpuser	clsnmpuser	Administer Oracle Solaris Cluster SNMP users
cltelemetryattribute	clta	Manage telemetry attributes monitoring
cluster	cluster	Manage Oracle Solaris Cluster global configuration and status
clzonecluster	clzc	Manage zone clusters

### STATUS

General Overview	# cluster status [-t type]
Cluster Members	# clnode status
Resource Groups	# clrg status [-n node]
Resource	# clrs status [-g rg]
Disk Groups	# cldg status
Devices	# cldev status [-s status <fail ok unknown unmonitored>]
Interconnect	# clintr status
IPMP Groups	# clnode status -m
Cluster Quorum	# clq status

### MANAGE

RG start	# clrg online -n <node> <rg-name>
RG failover	# clrg switch -n <node> <rg-name>
RG stop	# clrg offline <rg-name>
RG recovery stop	# clrg suspend <rg-name>
RG recovery start	# clrg resume <rg-name>
Resource stop	# clrs disable <res-name>
Resource start	# clrs enable <res-name>
RS-Monitor stop	# clrs unmonitor <res-name>
RS-Monitor start	# clrs monitor <res-name>

### CONFIGURATION

Cluster config	# cluster show
RG config	# clrg show [-v]
RS config	# clrs show [-v]

### Setup Examples

Create a a group	# clrg create -n node0,node1 <group-name>
Create the failover network address	# clrslh create -g <group-name> -h <hostname> \ -N ipmp@node0,ipmp@node1 <res-name>
Create the failover ZFS file system	# clrs create -g <group-name> -t SUNW.HAStoragePlus -p \ Zpools=<zpool> -p AffinityOn=True <res-name>
Create an Oracle database resource	# clresource create -g <group-name> \ -t SUNW.oracle_server -p ORACLE_HOME=<dir> \ -p Alert_log_file=/<dir>/message-log \ -p ORACLE_SID=<oraid> -p Connect_string=<user/pwd> \ -p Dataguard role=STANDBY -p Standby mode=PHYSICAL <res-name>

## Administration

```
# clsetup
*** Main Menu ***

Please select from one of the following options:

1) Quorum
2) Resource groups
3) Data Services
4) Cluster interconnect
5) Device groups and volumes
6) Private hostnames
7) New nodes
8) Zone Cluster
9) Other cluster tasks

?) Help with menu options
q) Quit
```

ZoneCluster	# clzonecluster [<configure> <status> <boot> <halt> <show>]
Add new disk to DID	On all nodes: # cldev refresh On one node: # cldev populate
Remove disk from DID	On all nodes: # cldev clear On one node: # cldev populate
Clear STOP_FAILED	# clr clear -f STOP_FAILED <res-name>
Shutdown the cluster	# cluster shutdown
All RGs off a node	# clnode evacuate <node>
Rebalance RGs	# clrg remaster +
Boot in NonCluster	SPARC OBP {0} boot -x X86 grub Select (b)oot or (i)nterpreter: b -x
Add a new Quorum LUN	# clq add <did-device>
Add a Quorum Server	# clq add -t quorumserver \ -p qshost=<IP>,port=<port> <servername>
Remove a Quorum	# clq remove <device>
Administrate ResourceTypes	# pkg install ha-cluster/data-service/oracle-database # clrt register SUNW.oracle_server # clrt list # clrt unregister SUNW.oracle_server
Remove Reservations	# /usr/cluster/lib/sc/scsi -c inkeys -d /dev/rdisk/<disk>s2 # /usr/cluster/lib/sc/scsi -c scrub -d /dev/rdisk/<disk>s2
Amnesia Reference Doc : Doc ID 1018806.1	{0} boot -sx [...] # cat /etc/cluster/nodeid # vi /etc/cluster/ccr/global/infrastructure  <i>Change the quorum_vote to 1 for the node that is up (node-1, nodeid = 1).</i> <b>cluster.nodes.1.name node-1</b> <b>cluster.nodes.1.state enabled</b> <b>cluster.nodes.1.properties.quorum_vote 1</b>  <i>For all other nodes and any Quorum Device, set the votecount to zero</i> <b>cluster.nodes.#.properties.quorum_vote 0</b>  <i>Quorum Device(s)</i> <b>cluster.quorum_devices.#.properties.votecount 0</b>  <i>Regenerate the checksum of the infrastructure file</i> # /usr/cluster/lib/sc/ccradm recover -o infrastructure # reboot

Solaris Cluster on My Oracle Support (Doc ID 1368370.1)  
The Most Common Solaris Cluster Problems/Issues/Failure Resolution Path  
Information Center: Solaris Cluster 3.x and 4.x (DOC ID 1479997.2)