Sun Cluster Commands

Sun Microsystems, Juergen Schleich

Action	Command Line
Sun Cluster Information	
Cluster status	*SC32: cluster [status | show] [-v]* *SC3x: scstat [-v] / scconf -pvv*
Installed Cluster version	*SC3x: scinstall -pv or* *cat /etc/cluster/release*
Cluster name	*SC32: cluster list* *SC3x: scconf -p | grep "Cluster name"*
Cluster (did) devices for all nodes	*SC32: cldev list -v* *SC3x: scdidadm -L*
Cluster (did) devices on one node	*SC32: cldev list -n [host] -v* *SC3x: scdidadm -l*
Further commands Cluster (did) devices	*SC32: cldev status [-v]* *SC32: cldev show [-v]*
Cluster network	*SC32: clintr status / clintr show* *SC3x: scstat -W / scconf -p*
Status disk path monitoring	*SC32: cldev status* *SC32: clnode show | grep path_failure* *SC3x: scdpm -p all:all*
Interactive menu	*SC32: clsetup* *SC3x: scsetup*
Device Group Operations	
Switch a Device Group	*SC32: cldg switch -n [host] [devicegroup]* *SC3x: scswitch -z -D [devicegroup] -h [host]*
Check localonly flag	*SC32: cldg show dsk/d[N]* *SC3x: scconf -pvv | grep dsk/d[N]*
Remove node from nodelist	*SC32:cldg remove-node -n [host] dsk/d[N]* *SC3x: scconf -r -D name=dsk/d[N],nodelist=[host]*
Set localonly / autogen flag	*SC32:cldg set -p localonly=true -p autogen=true dsk/d[N]* *SC3x: scconf -c -D name=dsk/d[N],localonly=true*
Cluster device groups	*SC32: cldg status [-v]* *SC32: cldg show* *SC3x: scstat -D [vv]*
Reconfigure global devices	*SC32: cldev populate* *SC3x: scgdevs*
Clear global devices	*SC32: cldev clear* *SC3x: scdidadm -C*

Action	Command Line
Resource & Resource Group Operations	
Status/List Resource and Resource Group	*SC32: clrg [list | status | show] -v* *SC32: clrs [list | status | show] -v* *SC32: clrs list-props [[-t nfs] | -g [rg]] -v* *SC3x: scrgadm -pvv or scconf -pv*
Switch a Resource Group	*SC32: clrg switch* *SC3x: scswitch -z -g [rg] -h [host]*
Quisce a Resource Gbroup	*SC32: clrg quiesce [rg] [-k]* *SC3x: scswitch -Q -g [rg] [-k]*
Suspend a Resource Group	*SC32: clrg suspend [rg] [-k]* *SC3x: scswitch -s -g [rg] [-k]*
Resume a Resource Group	*SC32: clrg resume [rg]* *SC3x: scswitch -r -g [rg]*
Manage/Unmanage Resource Group	*SC32: clrg [manage | unmanage] [rg]* *SC3x: scswitch [-u | -o] -g [rg]*
Enable/Disable Resource(with/without monitor)	*SC32: clrs [enable | disable] [rs]* *SC32: clrs [monitor | unmonitor] [rs]* *SC3x: scswitch [-e | -n] [-M] -j [resource]*
Online/Offline Resource Group	*SC32: clrg [online | offline] [rg]* *SC3x: scswitch -F -g [rg] (-u is offline)*
Online Resource Group with all Resources	*SC32: clrg online -emM [rg]* *SC3x: scswitch -Z -g [rg]*
Clear STOP_FAILED flag	*SC32: clrs clear -f STOP_FAILED -n [hostlist] [resource]* *SC3x: scswitch -c -j [resource] -h [hostlist] -f STOP_FAILED*
Clear Start_failed flag	*SC32: clrg restart -n [hostlist] [rg]* *SC3x: scswitch -R -h [hostlist] -g [rg]*
Register Resource Type	*SC32: clrt register [resource type]* *SC3x: scrgadm -a -t [resource type]*
Create Resource Group	*SC32: clrg create -n [hostlist] -p [property] [rg]* *SC3x: scrgadm -a -g [rg] -h [hostlist] -y [property]*
Create Resource	*SC32: clrs create -g [rg] -t -t [resource type] -p [property] [rs]* *SC3x: scrgadm -a -j [resource] -g [rg] -t [resource type]* *-y [property] -x [ext_property]*
Remove Resource Group	*SC32: clrg delete [-F] [rg]* *SC3x: scrgadm -r -g [rg]*
Remove Resource	*SC32: clrs delete [-F] -g [rg] [rs]* *SC3x: scrgadm -r -j [resource]*

Set Resource and Resource Group properties		
Set/Change Resource Group property, e.g: RG_dependency & RG_affinities	*SC32: clrg set -n [hostlist] -p RG_dependencies=[rglist] [rg]* *SC32: clrg set -n [hostlist] -p RG_affinities=[++rglist] [rg]*	*SC3x: scrgadm -c -g [rg] -h [hostlist] -y RG_dependencies=[rglist]* *SC3x: scrgadm -c -g [rg] -h [hostlist] -y RG_affinities=[--rglist]*
Set/Change Resource property	*SC32: clrs set -p Resource_dependencies=[rslist] [rs]*	*SC3x: scrgadm -c -j [resource] -y Resource_dependencies=[rslist] -x [ext_property]*

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Action	Command Line	Action	Command Line	Action	Command Line
Quorum Operations		**Boot Operations**		**Rebuild Sun Cluster configuration – only SC3.2 onwards**	
Status quorum device	*SC32: clq [list|status|show] -v* *SC3x: scstat -q*	Boot a node	*boot*	Export Cluster configuration	*cluster export > clusterconfig.xml*
Add quorum device	*SC32: clq add [diddevice]* *SC3x: scconf -a -q globaldev=[diddevice]*	Boot NONE cluster	*boot -x*	Delete all Resources and Groups	*clrg delete -F +*
Remove quorum device	*SC32: clq remove [diddevice]* *SC3x: scconf -r -q globaldev=[diddevice]*	Stop a node	*init 0 or shutdown*	Recreate Resource Groups	*clrg create -i clusterconfig.xml*
		Stop the cluster	*scshutdown*	Recreate Resources	*clrs create -i clusterconfig.xml*
				Switch all online	*clrg online +*

Example to create NFS Resource Group	
Register Reosource Type	*SC32: clrt register SUNW.nfs* *SC3x: scrgadm -a -t SUNW.nfs*
Create Resource Group	*SC32: clrg create -n host1,host2 -p Pathprefix=/global/nfs1 nfs1-rg* *SC3x: scrgadm -a -g nfs1-rg -h host1,host2 -y Pathprefix=/global/nfs1*
Create logical host Resource	*SC32: clrslh create -g nfs1-rg -h logical_host -N ipmp0@host1,ipmp0@host2 logical_host-rs* *SC3x: scrgadm -a -L -j logical_host-rs -g nfs1-rg -l logical_host -n ipmp0@host0,ipmp0@host1*
Optional: Create Storage Resource	*SC32: clrt register SUNW.HAStoragePlus* *SC3x: scrgadm -a -t SUNW.HAStoragePlus* *vi /etc/vfstab* *for failover filesystem: /dev/md/nfsset/dsk/d10 /dev/md/nfsset/rdsk/d10 /global/nfs1 ufs 2 no logging* *for global filesystem: /dev/md/nfsset/dsk/d10 /dev/md/nfsset/rdsk/d10 /global/nfs1 ufs 2 no global, logging* *SC32: clrs create -g nfs1-rg -t SUNW.HAStoragePlus -p FilesystemMountPoints=/global/nfs1 -p AffinityOn=True nfs1-hastp-rs* *SC3x: scrgadm -a -j nfs1-hastp-rs -g nfs1-rg -t SUNW.HAStoragePlus -x FilesystemMountPoints=/global/nfs1 -x AffinityOn=True* *for zfs: SC32 only: clrs create -g nfs1-rg -t SUNW.HAStoragePlus -p Zpools=nfs1zpool -p AffinityOn=True nfs1-hastp-rs*
Switch Resource Group online	*SC32: clrg online -M nfs1-rg* *SC3x: scswitch -Z -g nfs1-rg*
Create NFS Resource	*mkdir /global/nfs1/SUNW.nfs; mkdir /global/nfs1/data* *vi /global/nfs1/SUNW.nfs/dfstab.nfs1-server-rs (add 'share -F nfs -o rw /global/nfs1/data)* *SC32: clrs create -g nfs1-rg -t SUNW.nfs [-p Resource_dependencies=nfs1-hastp-rs] nfs1-server-rs* *SC3x: scrgadm -a -j nfs1-server-rs -g nfs1-rg -t SUNW.nfs [-y Resource_dependencies=nfs1-hastp-rs]*
Set property for NFS Resource	*SC32: clrs set -p Failover_mode=SOFT nfs1-server-rs* *SC3x: scrgadm -c -j nfs1-server-rs -y Failover_mode=SOFT*