

The purpose of this guide is to provide an overview of ICE ClusterWare™ commands that system administrators may use on a daily basis. For more information, commands, and examples, [see the ClusterWare documentation](#).

In general, commands make use of common CLI options like **-h**, **-v**, **-q**, **ls**, etc. “list” is a heavily used option for many **scylid-*** commands. The first example of **scylid-nodectl** below combines list with **-l** (or **-L**) for expanded node information.

Node and Attribute Control

<p>scylid-nodectl Create, query and modify nodes for the cluster.</p>	<p>scylid-nodectl list [-l -L]</p> <p>list Show a list of compute nodes.</p> <p>-l, --long Show a subset of all optional information for each node, e.g. basic hardware info, MAC, IP address.</p> <p>-L, --long-long Show all optional information for each node, e.g. all hardware info, MAC, IP address.</p> <p>scylid-nodectl status [-L] Shows the current status of a node. -L adds all optional information for each node, e.g. uptime, load average, free RAM.</p> <p>scylid-nodectl create mac=00:25:90:0C:D9:3C Add a new node beyond the end of the current list.</p>
<p>scylid-attribctl Create, query and modify attribute groups for the cluster.</p>	<p>scylid-attribctl create name=iScsiGroup Add a new attribute group.</p> <p>scylid-attribctl -i iScsiGroup set _boot_config=RebelBoot boot_style=iscsi Configure attributes to boot nodes using RebelBoot with iSCSI for root file system access.</p>

Boot Customization

<p>scylid-add-boot-config Tool for creating ClusterWare boot configurations.</p>	<p>scylid-add-boot-config --iso CentOS-7-x86_64-DVD-1908.iso --image \ CentOS-7.7-Image --boot-config CentOS-7.7-boot --batch</p> <p>Use the named ISO file in hands-off batch mode to build a repo and distro, both named CentOS-7-x86_64-1908, a boot image named CentOS-7.7-Image, and boot config named CentOS-7.7-boot.</p> <p>scylid-add-boot-config --make-defaults ...</p> <p>If there are no attribute groups on this system, then automatically build an attribute group referencing a new boot configuration referencing a new image.</p>
<p>scylid-bootctl Create, query and modify boot configurations for the cluster.</p>	<p>scylid-bootctl create name=Fed29Boot kernel=@/boot/vmlinuz-4.20.6-200.fc29.x86_64 \ initramfs=@cw-ramfs-4.20.6-200.fc29.x86_64</p> <p>Create a boot configuration with a premade kernel and initramfs.@ sign references a local file.</p>

Image Customization

<p>scyld-imgctl</p> <p>Create, query and modify images for compute nodes.</p>	<p>scyld-imgctl -i DefaultImage clone name=NewImage</p> <p>Clone the DefaultImage to a new NewImage.</p>
<p>scyld-modimg</p> <p>Tool for manipulating image contents.</p>	<p>scyld-modimg -i NewImage --chroot ...</p> <p>Downloads NewImage, and opens a root environment where changes can be tested on the new image.</p> <p>scyld-modimg --capture n8 --set-name CapturedN8image --upload</p> <p>Capture the image executing on node n8, give it the name "CapturedN8image," and upload it.</p>

Backup Cluster Info

<p>scyld-cluster-conf</p> <p>Load or save the cluster configuration file.</p>	<p>scyld-cluster-conf save /root/cluster-conf-bak</p> <p>Save a copy (backup) of the current network configuration and node list.</p> <p>scyld-cluster-conf load /root/cluster-conf-new</p> <p>Replace the existing node definitions with ones loaded from /root/cluster-conf-new.</p>
<p>scyld-sysinfo</p> <p>Capture the system state information. Often used for debugging.</p>	<p>scyld-sysinfo</p> <p>Capture the state of the current node into a gzip'ed tarball, executed as user root.</p>

Utilities

<p>scyld-adminctl</p> <p>Create, query and modify administrators for the cluster.</p>	<p>scyld-adminctl -i hsolo clone name=cbaca</p> <p>Copy the administrator properties for "hsolo" to a new administrator "cbaca"</p>
<p>scyld-clusterctl</p> <p>Tool for manipulating global cluster settings. Many additional tools exist within scyld-clusterctl for power users.</p>	<p>scyld-clusterctl pools create name=infiniband_nodes pattern=ib{} first_index=0</p> <p>scyld-nodectl -i n[64-127] update naming_pool=infiniband_nodes</p> <p>Create a node name group "infiniband_nodes" for nodes named "ibX", beginning with "ib0", and associate those names with nodes n64 to n127.</p>
<p>scyld-reports</p> <p>Manage and generate cluster reports.</p>	<p>scyld-reports unknown</p> <p>Display the full list of unknown nodes that have attempted to boot. Options exist to restrict query.</p>