

Oracle Hardware Management Pack 2.3 Command Quick Reference

This document is a quick reference for Oracle Hardware Management Pack command line interface (CLI) commands. Unless otherwise specified, listed subcommands and options are specific to each command. For more information, view the man pages or refer to the *Oracle Server CLI Tools User's Guide*.

To determine if a command is supported for your system, refer to the support matrices:

<http://www.oracle.com/goto/ohmp>

Note - Most commands require root or administrator permissions.

Common Command Options

These options are common to most commands.

Short Option	Long Option	Description
-?	--help	Displays help information.
-V	--version	Displays the tool version.
-q	--quiet	Suppresses informational message output and returns only error codes.
-y	--yes	Automatically confirms an operation. Does not prompt user for manual confirmation during command execution.

biosconfig Command Syntax

View and configure BIOS information for servers that only support Legacy BIOS.

Task	CLI Command
Get the version of this tool.	<code>biosconfig -get_version [filename.xml]</code>
Get the boot devices list.	<code>biosconfig -get_boot_order [filename.xml]</code>
Set the boot devices list.	<code>biosconfig -set_boot_order [filename.xml]</code>
Get setup configuration from CMOS.	<code>biosconfig -get_bios_settings [filename.xml]</code>
Set CMOS configuration.	<code>biosconfig -set_bios_settings [filename.xml]</code>
Get 256 bytes CMOS setup data from BIOS.	<code>biosconfig -get_CMOS_dump [filename.xml]</code>
Set 256 bytes of CMOS setup data to BIOS.	<code>biosconfig -set_CMOS_dump [filename.xml]</code>

firmware-check Command Syntax

Check that your system firmware (including Oracle ILOM) is at the minimum required version for updates and security. By default, this command runs in the background at system boot and logs any required actions in syslog. This command was added in Oracle Hardware Management Pack 2.3.6.

Task	CLI Command
Check the system firmware version against installed metadata to ensure that system firmware is at the required minimum level.	<code>firmware-check</code>
Display the currently installed system firmware version.	<code>firmware-check -r</code>
Silently perform a firmware check and log any required actions in syslog.	<code>firmware-check -s -q</code>
Check the age of the installed metadata used by <code>firmware-check</code> when checking system firmware.	<code>firmware-check -a</code>

fwupdate Automatic Mode Command Syntax

Utilize a metadata XML file that comes with the patch download package to update component firmware. Recommended update method.

Task	CLI Command
List component information based on available metadata. To list updatable targets that support metadata, use the <code>list supported-targets</code> command. To find the <i>devicename</i> for a target, use the <code>list all</code> command.	<code>fwupdate list target --xml=filename.xml [--device_name=devicename][--output_xml=filename][--verbose]</code>
Check the system firmware version (including Oracle ILOM) against installed metadata to ensure that system firmware is at the required minimum version. Note - This command was added in Oracle Hardware Management Pack 2.3.6. The <code>sp_bios</code> target is for x86 systems and <code>sysfw</code> is for SPARC.	<code>fwupdate check sp_bios sysfw</code>
Update a component or components based on available metadata and command-line directives.	<code>fwupdate update target --xml=filename.xml [--dry-run][--output=filename][--silent-reboot][--silent-no-reboot]</code>
Update a service processor based on available metadata and command-line directives over a network.	<code>fwupdate update target --xml=filename.xml --remote-hostname=remote_sp_ip --remote-username=username [--dry-run][--output=filename][--silent-reboot][--silent-no-reboot]</code>

fwupdate Manual Mode Command Syntax

Use a component-specific image file that comes with the patch download package to update component firmware. For advanced users or when no metadata XML file is available.

Task	CLI Command
List component information. To list updatable image targets, use the <code>list supported-images</code> command. To find the <i>devicename</i> for a target, use the <code>list all</code> command.	<code>fwupdate list target [--device_name=devicename][--output=filename][--verbose]</code>
Update a single component based on command-line directives.	<code>fwupdate update target --filename=fw_image_file --device_name devicename [--dry-run][--output=filename][--reset][--silent-reboot][--silent-no-reboot]</code>
Reset individual components.	<code>fwupdate reset target --device_name devicename</code>
Update a service processor using an image file based on command-line directives over a network. Note - As of Oracle Hardware Management Pack 2.3.6, the <code>sp-bios-firmware</code> image target is for x86 systems and <code>sysfw-firmware</code> is for SPARC.	<code>fwupdate update sp-bios-firmware sysfw-firmware --filename=fw_image_file --device_name devicename --remote-hostname=remote_sp_ip --remote-username=username [--dry-run][--output=filename][--reset][--silent-reboot][--silent-no-reboot]</code>

hwmgmtcli Command Syntax

View system information including event logs.

Task	CLI Command
List subsystem information (for <i>subsystem</i> , all will list all subsystems).	<code>hwmgmtcli list subsystem [--details]</code>
View open problems	<code>hwmgmtcli list open_problems</code>
Export subsystem information to an XML file.	<code>hwmgmtcli export all --filename filename.xml</code>

ilomconfig Command Syntax

View system information and configure the Oracle Integrated Lights Out Manager (ILOM) service processor.

Task	CLI Command
Export the Oracle ILOM configuration to an XML file.	<code>ilomconfig export config --xmlfile=filename.xml [-y]</code>
Import an Oracle ILOM configuration from an XML configuration file.	<code>ilomconfig import config --xmlfile=filename.xml [-y]</code>
Show a system summary.	<code>ilomconfig list system-summary</code>
List users.	<code>ilomconfig list user [username][--xmlfile=filename.xml]</code>
List SNMP communities.	<code>ilomconfig list snmp-community [communityname][--xmlfile=filename.xml]</code>
List IPv4 network settings.	<code>ilomconfig list network [--xmlfile=filename.xml]</code>
List IPv6 network settings.	<code>ilomconfig list network-ipv6 [--xmlfile=filename.xml]</code>
List service processor identification information.	<code>ilomconfig list identification [--xmlfile=filename.xml]</code>
List DNS information.	<code>ilomconfig list dns [--xmlfile=filename.xml]</code>
List clock information.	<code>ilomconfig list clock [--xmlfile=filename.xml]</code>

Task	CLI Command
Create users.	<code>ilomconfig create user <i>username</i> [--role=<i>role</i>][--xmlfile=<i>filename.xml</i>]</code>
Delete users.	<code>ilomconfig delete user <i>username</i> [--xmlfile=<i>filename.xml</i>]</code>
Create SNMP communities.	<code>ilomconfig create snmp-community <i>communityname</i> [--permission=ro rw][--xmlfile=<i>filename.xml</i>]</code>
Modify users.	<code>ilomconfig modify user <i>username</i> [-p][--role=<i>role</i>][--xmlfile=<i>filename.xml</i>]</code>
Modify IPv4 network settings.	<code>ilomconfig modify network [--ipdiscovery=static dhcp][--ipaddress=<i>ipaddress</i>][--netmask=<i>netmask</i>][--gateway=<i>gateway</i>][--state=enabled disabled][--mgmtport=<i>port</i>][--xmlfile=<i>filename.xml</i>]</code>
Modify IPv6 network settings.	<code>ilomconfig modify network-ipv6 [--static-ipaddress=<i>IPv6_address</i>] [--autoconfig=disabled stateless dhcpv6_stateful dhcpv6_stateless] [--state=enabled disabled][--xmlfile=<i>filename.xml</i>]</code>
Modify system identification information.	<code>ilomconfig modify identification [--hostname=<i>hostname</i>][--system-contact=<i>system_contact</i>][--system-location=<i>system_location</i>][--system-identifier=<i>system_identifier</i>][--xmlfile=<i>filename.xml</i>]</code>
Modify DNS information.	<code>ilomconfig modify dns [--nameservers=<i>name_server_list</i>][--autodns=enabled disabled][--retries=<i>retries</i>][--searchpath=<i>search_path_list</i>][--timeout=<i>timeout</i>][--xmlfile=<i>filename.xml</i>]</code>
Reset Oracle ILOM settings to factory defaults.	<code>ilomconfig reset config</code>
List the Host-to-ILOM interconnect settings.	<code>ilomconfig list interconnect</code>
Enable Host-to-ILOM interconnect.	<code>ilomconfig enable interconnect [--ipaddress=<i>ip_address</i>][--netmask=<i>netmask</i>][--hostipaddress=<i>host_ip_address</i>]</code>
Disable Host-to-ILOM interconnect.	<code>ilomconfig disable interconnect</code>
Modify Host-to-ILOM interconnect.	<code>ilomconfig modify interconnect [--ipaddress=<i>ip_address</i>][--netmask=<i>netmask</i>][--hostipaddress=<i>host_ip_address</i>]</code>
Set up a credential cache on the host. Note - As of Oracle Hardware Management Pack 2.3.3, this feature has been disabled. Refer to the <i>Release Notes</i> for more information.	<code>ilomconfig create credential --username=<i>username</i></code>
Delete a credential cache on the host.	<code>ilomconfig delete credential --username=<i>username</i></code>
List ILOM watchdog settings.	<code>ilomconfig list ilomwatchdog</code>
Enable ILOM watchdog.	<code>ilomconfig enable ilomwatchdog</code>
Disable ILOM watchdog.	<code>ilomconfig disable ilomwatchdog</code>
Modify ILOM watchdog settings.	<code>ilomconfig modify ilomwatchdog [--timer-action=<i>action</i>][--number-sp-reset=<i>num_sp_reset</i>][--query-interval=<i>query_interval</i>]</code>
Reset ILOM watchdog settings to factory defaults.	<code>ilomconfig reset ilomwatchdog-config</code>

Task	CLI Command
List host watchdog settings.	<code>ilomconfig list hostwatchdog</code>
Enable host watchdog settings.	<code>ilomconfig enable hostwatchdog</code>
Disable host watchdog settings.	<code>ilomconfig disable hostwatchdog</code>
Modify host watchdog settings.	<code>ilomconfig modify hostwatchdog [--timer-action=<i>action</i>][--timer-value=<i>timer_value</i>][--reset-period=<i>query_interval</i>]</code>
Reset host watchdog settings to factory defaults.	<code>ilomconfig reset hostwatchdog-config</code>
Configure Oracle ILOM over a network.	<code>ilomconfig <i>subcommand target</i> --xmlfile=<i>filename.xml</i> <i>options</i> --remote-hostname=<i>remote_sp_ip</i> --remote_username=<i>username</i></code>

itpconfig Command Syntax

Forward Oracle ILOM SNMP traps to a host. Only used with the hardware management agent (hwmgmt).

Task	CLI Command
List Host-to-ILOM Interconnect settings.	<code>itpconfig list interconnect</code>
Enable Host-to-ILOM Interconnect.	<code>itpconfig enable interconnect [--ipaddress=<i>ip_address</i>][--netmask=<i>netmask</i>][--hostipaddress=<i>host_ip_address</i>]</code>
Modify Host-to-ILOM Interconnect settings.	<code>itpconfig modify interconnect [--ipaddress=<i>ip_address</i>][--netmask=<i>netmask</i>][--hostipaddress=<i>host_ip_address</i>]</code>
Disable Host-to-ILOM Interconnect.	<code>itpconfig disable interconnect</code>
List Oracle ILOM trap forwarding proxy settings.	<code>itpconfig list trapforwarding</code>
Enable Oracle ILOM trap forwarding proxy.	<code>itpconfig enable trapforwarding [--ipaddress=<i>ip_address</i>][--port=<i>port</i>][--community=<i>community</i>]</code>
Modify Oracle ILOM trap forwarding proxy settings.	<code>itpconfig modify trapforwarding [--ipaddress=<i>ip_address</i>][--port=<i>port</i>][--community=<i>community</i>]</code>
Disable trap forwarding.	<code>itpconfig disable trapforwarding</code>

nvmeadm Command Syntax

View and configure NVMe storage. This command was added in Oracle Hardware Management Pack 2.3.1.

Task	CLI Command
List controller information.	<code>nvmeadm list [--verbose][<i>controllername</i>]</code>
List namespace information.	<code>nvmeadm namespace [--namespace <i>namespace</i>][--verbose] [<i>controllername</i>]</code>
List SMART/health information.	<code>nvmeadm getlog --health [<i>controllername</i>]</code>
List error information.	<code>nvmeadm getlog --error <i>error_log_number</i> [<i>controllername</i>]</code>
Generate error logs.	<code>nvmeadm getlog --vendor_specific <i>/dest_path</i> [<i>controllername</i>]</code>

Task	CLI Command
This command generates nlog and eventlog files for Intel NVMe devices, and generates crash dump and memory dump files for Samsung NVMe devices.	
Save vendor information to a file.	<code>nvmeadm list --vendor_specific /dest_path [controllername]</code>
List features of an NVMe controller.	<code>nvmeadm getfeature [controllername]</code>
Format NVMe media.	<code>nvmeadm format --format --all --metadatasize <i>metadatasize</i> --blocksize <i>blocksize</i> [controllername]</code>
List supported LBA formats (block and metadata sizes).	<code>nvmeadm format --list [controllername]</code>
Erase NVMe media.	<code>nvmeadm erase --all [controllername]</code>
Export the NVMe SSD configuration to a file.	<code>nvmeadm export --filename <i>filename.xml</i> [controllername]</code>
Import the NVMe SSD configuration (block and metadata size only) from a file.	<code>nvmeadm import --filename <i>filename.xml</i> [controllername]</code>

raidconfig Command Syntax

View and configure RAID storage (hardware RAID controllers only). Before using `raidconfig` to create volumes (which will overwrite any existing data), use operating system tools to take an inventory of attached disks, their enumeration, and whether they contain data that you want to preserve.

Task	CLI Command
List information on controllers, RAID volumes and disks. Available targets: <code>all</code> , <code>controller</code> , <code>disk</code> , <code>raid</code> . To find a controller, disk, or raid volume name, use the <code>list all</code> command.	<code>raidconfig list target [--controller=controller]-disks=<i>disks</i> [--raid=<i>raid_volume</i>] [--verbose]</code>
Enable or disable JBOD mode on one or more disks connected to a RAID controller. Enabling JBOD mode on a controller sets JBOD mode on all its disks by default. Disks can then have JBOD mode enabled/disabled individually. Note - Only supported on Oracle Storage 12 Gb SAS RAID PCIe HBA, Internal (7110116, 7110117). Do not enable or disable JBOD mode on disks that contain the OS.	<code>raidconfig modify controller -c <i>controller</i> --jbod enabled disabled</code> <code>raidconfig modify disk -d <i>disk</i> --jbod enabled disabled</code>
Create a RAID volume.	<code>raidconfig create raid [--level <i>raid_level</i>] [--stripe-size <i>stripe_size</i>] [--subarrays <i>size</i>] [--name <i>volumename</i>] [--subdisk-size <i>sizes</i>] -d <i>disks</i></code>
Delete a RAID volume.	<code>raidconfig delete raid [--raid=<i>raid_volume</i>] [--all]</code>
Add a specified disk.	<code>raidconfig add disk --disks=<i>disks</i> --raid=<i>raid_volume</i></code>
Remove a specified disk.	<code>raidconfig remove disk --disks=<i>disks</i> --raid=<i>raid_volume</i></code>
Add a specified spare.	<code>raidconfig add spare --disks=<i>disks</i> [--raid=<i>raid_volume</i>]</code>
Remove a specified spare.	<code>raidconfig remove spare --disks=<i>disks</i> [--raid=<i>raid_volume</i>]</code>
Modify a RAID volume.	<code>raidconfig modify raid --raid=<i>raid_volume</i> [--name <i>volumename</i>] [--bios-boot-target=true] [--read-cache enabled disabled] [--write-cache enabled disabled enabled_protect]</code>

Task	CLI Command
Modify a RAID controller.	<code>raidconfig modify controller --controller=controller [--disable-auto-rebuild=true false]</code>
Start a maintenance task.	<code>raidconfig start task --task=taskname [--disks=disks --raid=raid_volume][--src-disk disk][--dst-disk disk]</code>
Stop a maintenance task.	<code>raidconfig stop task --task=taskname [--disks=disks --raid=raid_volume][--src-disk disk][--dst-disk disk]</code>
Restore the RAID configuration.	<code>raidconfig restore config --controller=controller_id</code>
Clear the RAID configuration.	<code>raidconfig clear config --controller=controller_id</code>
Export RAID inventory data to an XML file.	<code>raidconfig export inventory filename.xml</code>
Export a RAID configuration to an XML file.	<code>raidconfig export config filename.xml</code>
Configure RAID volumes from a configuration file.	<code>raidconfig import config filename.xml</code>
Create RAID volumes with partial disks.	<code>raidconfig create raid --disks=disks --subdisk-size=sizes</code>

ubiosconfig Command Syntax

View and configure BIOS information on servers that support UEFI.

Task	CLI Command
Display status of import or export changes to UEFI BIOS settings at the next server boot.	<code>ubiosconfig list status</code>
Export a server's UEFI BIOS settings to an XML file.	<code>ubiosconfig export all --xml_file filename.xml [--force]</code>
Import UEFI BIOS settings stored in an XML file to the server at next boot.	<code>ubiosconfig import all --xml_file filename.xml [--force]</code>
Cancel any pending changes to UEFI BIOS settings.	<code>ubiosconfig cancel config</code>
Reset the UEFI BIOS settings to factory default at the next server boot.	<code>ubiosconfig reset config</code>
Cancel the pending reset action.	<code>ubiosconfig reset cancel</code>
Configure UEFI BIOS information over a network.	<code>ubiosconfig subcommand type options --remote_hostname=remote_sp_ip -- remote_username=remote_username</code>

zoningcli Command Syntax

`zoningcli` can configure the disks in a Oracle SPARC T3-1 server with a 16-disk backplane into two separate 8-disk zones.

Task	CLI Command
List current zoning information.	<code>zoningcli list expander</code>
Enable zoning.	<code>zoningcli enable zoning</code>
Disable zoning.	<code>zoningcli disable zoning</code>

Task	CLI Command
Set the expander to the default zoning configuration.	<code>zoningcli config zoning</code>

Product Documentation Library

Late-breaking information and known issues for this product are included in the documentation library at <http://www.oracle.com/goto/ohmp/docs>.

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