HPE Performance Cluster Manager Command Reference

HPE Performance Cluster Manager Release 1.6
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The cm command lines perform functions that are similar to, but not always identical to, legacy commands from SGI Management Suite and the HPE Insight Cluster Management Utility. The legacy commands are obsolete and can produce unexpected results on systems that run the HPE Performance Cluster Manager.

HPE Performance Cluster Manager cm command	Description	SGI Management Suite	HPE Insight Cluster Management Utility
cm aiops cooldev [disable|enable|restart|start|status|stop]	Control AI monitoring of cooling devices (preview feature). Requires the cluster manager AIOps product to be installed.	NONE	NONE
cm chassis cmc firmware {show | update}	Show or update firmware of a CMC	NONE	NONE
cm controller {add | delete | set | show}	Add/show controllers, set controllers, delete controllers and associated nodes	NONE	NONE
cm cooldev {arcs|cdu|rdhx} {add|delete|show}	Add/delete/show CDU, ARCS cooling devices, or rear door heat exchanger	NONE	NONE
cm elk {gather | passwd}	Gather data from kafka to elasticsearch, change elk password	NONE	NONE
cm fru show	Display detailed FRU information for nodes	NONE	NONE
cm group archived del NAME…	Delete one or more archived groups	NONE	cmu_del_archived_custom_groups
cm group archived rename NAME NEW_NAME	Rename an archived group	NONE	cmu_rename_archived_custom_group
cm group archived show	Show archived groups	NONE	cmu_show_archived_custom_groups
cm group custom add [--pdsh-group] [--create] GROUP	Add a custom group and/or nodes to a custom group	NONE	cmu_add_custom_group cmu_change_custom_group
cm group custom del [--rename NEW_NAME] [--archive] [--minduration TIME] GROUP… [NODES]	Delete or archive custom groups, or delete nodes from a custom group	NONE	cmu_del_custom_group cmu_del_from_custom_group
cm group custom set --pdsh-groups	Set custom group settings	NONE	NONE
cm group custom show [--settings | NAME]	Show all custom groups, settings, or nodes of a specific group	NONE	cmu_show_custom_groups
cm group custom unset --pdsh-groups	Unset custom group settings	NONE	NONE
cm group network add [--pdsh-group] [--create] GROUP	Add a network group and/or nodes to a network group	NONE	cmu_add_network_group cmu_change_network_group
cm group network del GROUP… [NODES]	Delete network groups or nodes from a network group	NONE	cmu_del_network_group cmu_del_from_network_group
cm group network set --pdsh-groups	Set network group settings	NONE	NONE
cm group network show [--settings | NAME]	Show all network groups, settings, or nodes of a specific group	NONE	cmu_show_network_groups
cm group network unset --pdsh-groups	Unset network group settings	NONE	NONE
cm group system show [NAMES]	Show all system groups or nodes of specific groups	cnodes {--compute|--ice-compute|--leader|--ib-switch|--mgmt-switch|--switch-blade|--cmc|pdu}	NONE
cm health	Run functional and performance tests on nodes, manage alerts	NONE	NONE
cm image capture	Capture an image from a node	cinstallman --create-image --from-node	cmu_add_image_group --device {<device_name>|diskless} cmu_capture_image
cm image copy	Make a copy of an image.	cinstallman --create-image --clone	create a new image with cmu_add_image_group and manually copy the old image to the new image group.
cm image create	Create a new image that can be deployed	cinstallman --create-image	cmu_add_image_group --device autoinstall
cm image delete	Delete an image	cinstallman --del-image [--del-nodes]	cmu_del_image_group
cm image dnf [-h] -i NAME [--repos REPOLIST | --repo-group REPOGROUP] [--duk] …	Perform dnf operations on an image	cinstallman --dnf-image --image image [--repos REPOLIST | --repo-group REPOGROUP] [--duk] …	NONE

cm image recreate	Delete an image or associated miniroot and recreates it.	cinstallman --recreate {--update-miniroot|--create-image}	NONE
cm image refresh	Refresh an image	cinstallman {--refresh-image|--refresh-bt}	NONE
cm image revision commit	Commit an image into the version control system	cinstallman --comit --image [--msg]	NONE
cm image revision delete	Delete all stored revisions of an image, leaving just the working copy	cinstallman --del-revisions --image	NONE
cm image revision diff-contents	Show file content differences of an image and one of its revisions	cinstallman --idiff --image [--rev] [--diff-tool] [--file]	NONE
cm image revision diff-versions	Show which files differ between an image and one of its revisions	cinstallman --changed --image [--rev][--cmp-tool]	NONE
cm image revision diff	Show which files differ between two images or an image and the installed image on a node	cinstallman --diff --image [--node|--source][--file]	NONE
cm image revision history	Show revision history for an image	cinstallman --history --image [--rev]	NONE
cm image revision revert	Revert the working copy of image to a specific revision.	cinstallman --revert --image [--rev] [--duk]	NONE
cm image set	Set image properties	cadmin --image IMAGE --set* cinstallman --image IMAGE --set*	NONE
cm image show	Show image properties	cinstallman --show-images [--image IMAGE] cinstallman --show-nodes	cmu_show_image_groups
cm image unset	Un-set image properties	cadmin --image IMAGE --unset* cinstallman --image IMAGE --unset*	NONE
cm image update	Update an image or its related elements	cinstallman --image [--update-kernels|--commit-msg| --update-miniroot|--update-image] [--repos REPOS | --repo-group REPO_GROUP] [--duk]	NONE
cm image yum [-h] -i NAME [--repos REPOLIST | --repo-group REPOGROUP] [--duk] ...	Perform yum operations on an image	cinstallman --yum-image --image image [--repos REPOLIST | --repo-group REPOGROUP] [--duk] ...	NONE
cm image zypper -I NAME [--repos REPOLIST | --repo-group REPOGROUP] [--duk] ...	Perform zypper operations on an image	cinstallman --zypper-image --image NAME [--repos REPOLIST] [--repo-group REPOGROUP] [--duk] ...	NONE
cm monitoring alerta {disable|enable|restart|start|status|stop}	Alerta disable, enable, restart, start, status, stop	NONE	NONE
cm monitoring config port {set | show}	Sets/shows the port number of monitoring services	NONE	NONE
cm monitoring dashboard grafana set	Enable or disable Grafana dashboards	NONE	NONE
cm monitoring elk {disable|enable|restart|start|status|stop}	Elk disable, enable, restart, start, status, stop	NONE	NONE
cm monitoring ganglia {disable|enable|restart|start|status|stop}	Ganglia disable, enable, restart, start, status, stop	NONE	NONE
cm monitoring kafka {disable|enable|restart|start|status|stop}	Kafka disable, enable, restart, start, status, stop	NONE	NONE
cm monitoring nagios {disable|enable|restart|start|status|stop}	Nagios disable, enable, restart, start, status, stop	NONE	NONE
cm monitoring native disable NODES	Disable native HPCM monitoring either globally or per-node.	NONE	cmuserver.conf: CMU_MONITORING=off per-node disable not supported
cm monitoring native enable	Enable native HPCM monitoring either globally or per-node.	NONE	cmuserver.conf: CMU_MONITORING=on per-node enable not supported
cm monitoring native metrics add	Adds metric groups to HPCM native monitoring: AMS, NVIDIA, Moonshot	NONE	cmu_config_metrics -A cmu_config_nvidia cmu_config_metrics -M
cm monitoring native metrics dump	Dump archived monitoring data	NONE	cmu_monitoring_dump
cm monitoring native metrics remove	Remove metric groups from HPCM native monitoring: AMS, NVIDIA, Moonshot	NONE	cmu_config_metrics -A -r cmu_config_nvidia -r cmu_config_metrics -M -r
cm monitoring native metrics show	Displays the latest available NATIVE monitoring sensors and alerts for the specified nodes and groups	NONE	cmu_monstat
cm monitoring native restart	Restart native HPCM monitoring	NONE	cmu_restart_monitoring

cm monitoring native start	Start native HPCM monitoring	NONE	cmu_start_monitoring
cm monitoring native stop	Stop native HPCM monitoring	NONE	cmu_stop_monitoring
cm network	Add, delete, set, unset, and show network information	configure-cluster	NONE
cm node bios {reset | set | show}	Show, Set or Reset BIOS settings	NONE	conrep & GUI "Show BIOS Settings"
cm node console	Connect to the console of a node	console	cmu_console
cm node delete	Delete one or more nodes by name or by cluster definition file	cadmin --db-purge	cmu_del_node
cm node discover {add|disable|enable|mkconfig|status|subnet}	Uses DHCP and PXE to discover the MAC and other information of one or more servers and adds them into HPCM.	NONE	NONE
cm node dnf	Perform dnf operations on a node	NONE	NONE
cm node firmware {show | status | update}	Display firmware versions, BMC log entries, or update firmware components	csumtool	cmu_get_fw_versions & GUI "Update -> Update Firmware Inventory"
cm node nic	Add, delete, set, or show NICs	NONE	NONE
cm node provision	Provision an image to one or more nodes	cinstallman --assign-image cinstallman --next-boot cpower	cmu_clone cmu_autoinstall_node
cm node refresh netboot	Refresh the netboot configuration on one or more nodes	cinstallman --refresh-netboot	NONE
cm node refresh rpms	Ensure all specified rpms are installed on one or more nodes	cinstallman --refresh-node	NONE
cm node refresh secrets	Refresh the existing secrets on one or more nodes	NONE	/opt/cmu/tools/copy_ssh_keys.exp
cm node run	Run a command on one or more nodes and display output using cm_pager	NONE	cmu_dsh
cm node set	Set proprieties of one or more nodes, or global node properties	cadmin --node NODES --set* --enable* cinstallman --node NODES --set* --assign-image --kernel	cmu_mod_node
cm node show	Show node properties	cnodes cadmin --node NODES --show*	cmu_show_nodes
cm node slot	Copy one slot to a new slot	clone-slot	NONE
cm node template	Preallocate node attributes for automatically discovered nodes on HPE Cray EX clusters	NONE	NONE
cm node unset	Un-set properties of one or more nodes, or global node properties	cadmin --node NODES {--unset* | --disable*}	cmu_mod_node
cm node update config	Update node configuration settings	update-configs	NONE
cm node update rpms	Update the existing rpms on one or more nodes	cinstallman --update-node	NONE
cm node yum	Perform yum operations on a node	cinstallman --yum-node	NONE
cm node zypper	Perfrom zypper operations on a node	cinstallman --zypper-node	NONE
cm power	Issue power requests to nodes. Requests include: on/off/status/halt/shutdown/reboot/hard_reboot/reset/press/uid_on /uid_off	cpower	cmu_power
cm repo add [--custom REPO_NAME] PATH	Add a repository	crepo –add PATH [–custom REPO_NAME]	NONE
cm repo del NAME	Delete a repository	crepo –del NAME	NONE
cm repo group add NAME [--repos ...]	Add repositories to a group or create a repository group	crepo –add-group NAME [REPO_NAME…]	NONE
cm repo group del NAME [--repos ...]	Remove repositories from a group or delete a repository group	crepo –del-group NAME [REPO_NAME…]	NONE
cm repo group show ...	Show all repository groups or details on a specific group	crepo –show-group [REPO_NAME…]	NONE
cm repo reexport	Re-export all repositories with yume.	crepo --reexport	NONE
cm repo refresh NAME	Refresh repository metadata	crepo –refresh NAME	NONE
cm repo select NAME	Mark a repository as selected	crepo –select NAME	NONE
cm repo show [--distros | --source]	Show available repositories	crepo [--show-distro | --show-updateurls | --show]	NONE
cm repo unselect NAME	Mark a repository as not selected	crepo –unselect NAME	NONE
cm sim	Manage service infrastructure monitoring	NONE	NONE