LoadCore

Keysight Cluster Operating System (KCOS)

KEYSIGHT TECHNOLOGIES

CLI Reference Guide

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KCOS CLI Overview

Keysight Cluster Operating System (KCOS) is the base operating system for a number of Keysight hardware platforms and web-based applications. Based on Linux, it is a purpose-built platform that provides essential services, including host management, user access control, software upgrades, cluster orchestration, among others. It provides a command line interface (CLI) and a command shell to enable user control of the various services.

This document provides reference information for the KCOS CLI commands.

The KCOS CLI Shell

- Upon initial log in, you are working in the KCOS framework, which defaults to the bash shell. While in this shell, you need to start each of the KCOS CLI commands with the "kcos" keyword; for example, *kcos networking ip set*
- You can use the optional KCOS shell to limit your command set to only the KCOS commands. While working in the KCOS shell, you do not use the "kcos" keyword. For example, you would simply enter *networking ip set*.

Shell auto-completion

The KCOS Shell provides an auto-completion capability:

1. Type a partial command (*snapshot* for example).
2. Press the **Tab** key twice to display the full list of available matching commands.
3. Use the **Tab** key to advance to the specific command that you wish to execute.
4. Press **Enter** to select the command.
5. Type any additional flags and arguments for the command.
6. Press **Enter** to issue the command.

Root access prohibited

While working in the KCOS framework, you can use any Linux command except for *sudo*: KCOS does not support root access on any Keysight hardware on which it is running.

KCOS syntax description

The KCOS CLI commands are described using the following command syntax:

- The words that comprise the command name are shown without any brackets or braces.
- Required arguments are shown in <angle brackets>.
- Optional arguments are shown in [square brackets].
- Mutually-exclusive items are shown in {braces}, with the items separated by vertical bars (pipe symbols).
- Arguments that can repeat are shown with a trailing ellipses (…).

KCOS shell authentication

To start a KCOS CLI session, you must first authenticate yourself using your user credentials. KCOS supports a single sign-on (SSO) methodology, wherein your application administrator configures the user IDs and passwords that you use for accessing the application and the KCOS CLI shell: the same user credentials are used for both. To start a KCOS CLI session:

1. Use the `ssh` command to open an SSH connection to the remote device. For example:
   ```
   ssh username@kcos_system_host
   ```
2. When prompted, enter your password.

KCOS verifies your sign-on credentials, starts the CLI session, and presents the CLI prompt. For example:

```
(kcos)-APS-M1-TW21160109:~$
```

CLI command summary

The following table lists the available KCOS CLI commands.

Command	Description
kcos help	Display a list of the available commands.
kcos date-time commands:	
kcos date-time date set	Set the system date and time for the node.
kcos date-time date show	Display the system date, time, and timezone configure on the node.
kcos date-time ntp-servers delete	Delete the complete list of NTP servers from the node.
kcos date-time ntp-servers set	Set the list of NTP servers for the node.
kcos date-time ntp-servers show	Display the list of known NTP servers and their status (enabled or disabled).
kcos date-time ntp disable	Disable the NTP settings.
kcos date-time ntp enable	Enable the NTP settings on the node.
kcos date-time time-zone set	Set the UTC timezone for the node.
kcos date-time time-zone show	Display the UTC timezone configured for the node.
kcos date-time time set	Set system time for the node.
kcos date-time time show	Display the current date, time, and timezone.
kcos deployment commands:	
kcos deployment available-updates	List the packages that are available for online installation.
kcos deployment offline-install	Install, upgrade, or downgrade software components from the provided package(s).
kcos deployment online-	Install, upgrade, or downgrade software components from the

Command	Description
install	Keysight online repository.
kcos deployment packages show	Display the list of installed packages.
kcos deployment progress show	Display progress information for a pending install operation.
kcos exit commands:	
kcos exit	Exit from the current KCOS Shell, returning to the default Linux shell.
kcos licensing commands:	
kcos licensing counted-feature-stats show	Display counted feature stats for licenses
kcos licensing hostid show	Display the HostID of the license server
kcos licensing licenses activate	Activate one or more licenses
kcos licensing licenses deactivate	Deactivate one or more licenses
kcos licensing licenses show	Display the list of installed licenses
kcos licensing offline-license import	Import an offline license
kcos licensing offline-request generate	Generate an offline request file
kcos licensing sync	Synchronize the license server with Keysight Software Manager (KSM)
kcos logs commands:	
kcos logs application	Display the log for an application.
kcos logs diagnostics collect	Collect chassis logs for all available components or for selected components and/or subcomponents.
kcos networking commands:	
kcos networking dns-servers add	Add one or more DNS servers for the node.
kcos networking dns-	Delete the complete list of DNS servers from the node.

Command	Description
servers delete	
kcos networking dns-servers show	Display the list of DNS servers configured on the node.
kcos networking hostname set	Configure the hostname and (optionally) the domain name for the node.
kcos networking hostname show	Display the node's hostname.
kcos networking ip set	Set the IPv4 or IPv6 address (static or DHCP-assigned) for an interface on the node.
kcos networking ip show	Display the IP addresses of the network interfaces.
kcos shell command:	
kcos shell	Enter the KCOS shell in the command window.
kcos snapshot commands:	
kcos snapshot create	Create a new system snapshot of the node.
kcos snapshot delete	Delete an existing system snapshot.
kcos snapshot restore	Restore the system from a system snapshot.
kcos snapshot show	Display a list of the available system snapshots.
kcos system commands:	
kcos system poweroff	Shutdown and power-off the system.
kcos system reboot	Reboot the system.
kcos system welcome-screen show	Display the welcome message/banner.

kcos date-time commands

The `date-time` CLI commands enable management of date-time controls and settings on your system. With these commands you can show and set the system date and time, manage the NTP servers that your system will use, and set the time zone for your system.

kcos date-time date set

Use the kcos date-time date set command to set the UTC (Coordinated Universal Time) system date and—optionally—the time for the node on which KCOS is running.

Syntax

```
kcos date-time date set <YYYY-MM-DD> [<hh:mm:ss>] [flags]
```

Flags

-h, --help	Display help for the command

Arguments

YYYY-MM-DD	The date.
hh:mm:ss	The time (using 24-hour notation).

Examples

```
kcos date-time date set 2020-09-24
kcos date-time date set 2020-11-04 22:01:30
```

See also

```
kcos date-time date show
kcos date-time time-zone set
```

Notes

Use "kcos date-time time set" to set the time only.

kcos date-time date show

Use the **kcos date-time date show** command to display the date, time, and timezone for the node on which KCOS is running.

Syntax

```
kcos date-time date show [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos date-time date show
kcos date-time date show --help
```

See also

```
kcos date-time date set
kcos date-time time-zone set
```

kcos date-time ntp-servers delete

Use the **kcos date-time ntp-servers delete** command to delete the complete list of NTP servers from the node.

Syntax

```
kcos date-time ntp-servers delete [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos date-time ntp-servers delete
kcos date-time ntp-servers delete --help
```

See also

```
kcos date-time ntp-servers set
kcos date-time ntp-servers show
```

kcos date-time ntp-servers set

Use the **kcos date-time ntp-servers set** command to set the list of NTP servers for the node.

Syntax

```
kcos date-time ntp-servers set <NTP server addresses> [flags]
```

Flags

-h, --help	Display help for the command

Arguments

NTP server addresses	A space-separated list of one or more NTP server IP addresses.

Examples

```
kcos date-time ntp-servers set 192.168.7.12
kcos date-time ntp-servers set 10.38.140.12 192.168.22.10
```

See also

```
kcos date-time ntp-servers delete
kcos date-time ntp-servers show
```

kcos date-time ntp-servers show

Use the **kcos date-time ntp-servers show** command to display the list of known NTP servers and their status (enabled or disabled).

Syntax

```
kcos date-time ntp-servers show [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos date-time ntp-servers show
kcos date-time ntp-servers show --help
```

See also

```
kcos date-time ntp-servers set
kcos date-time ntp-servers delete
```

kcos date-time ntp disable

Use the **kcos date-time ntp disable** command to disable the NTP settings.

Syntax

```
kcos date-time ntp disable [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos date-time ntp disable
kcos date-time ntp disable --help
```

See also

```
kcos date-time ntp enable
kcos date-time ntp-servers
```

kcos date-time ntp enable

Use the **kcos date-time ntp enable** command to enable the NTP settings on the node.

Syntax

```
kcos date-time ntp enable [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos date-time ntp enable
kcos date-time ntp enable --help
```

See also

```
kcos date-time ntp disable
kcos date-time ntp-servers
```

kcos date-time time-zone set

Use the **kcos date-time time-zone set** command to set the UTC timezone for the node.

Syntax

```
kcos date-time time-zone set <time-zone> [flags]
```

Flags

-h, --help	Display help for the command

Arguments

time-zone	A text string designating the time zone.

Examples

```
kcos date-time time-zone set UTC
kcos date-time time-zone set Asia/Seoul
kcos date-time time-zone set Europe/Bucharest
```

See also

```
kcos date-time time-zone show
kcos date-time date set
kcos date-time date show
```

kcos date-time time-zone show

Use the **kcos date-time time-zone show** command to display the UTC timezone configured for the node.

Syntax

```
kcos date-time time-zone show [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos date-time time-zone show
```

See also

```
kcos date-time time-zone set
kcos date-time time show
kcos date-time date show
```

kcos date-time time set

Use the **kcos date-time time set** command to set system time for the node on which KCOS is running.

Syntax

```
kcos date-time time set <hh:mm:ss> [flags]
```

Flags

-h, --help	Display help for the command

Arguments

hh:mm:ss	The system time (using 24-hour notation).

Examples

```
kcos date-time time set 14:30
kcos date-time time set 01:30
```

See also

```
kcos date-time date set
kcos date-time date show
kcos date-time time-zone set
```

Notes

Use "kcos date-time date set" to set both the date and the time.

kcos date-time time show

Use the **kcos date-time time show** command to display the current date, time, and timezone.

Syntax

```
kcos date-time time show [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos date-time time show
```

See also

```
kcos date-time time-zone show
kcos date-time date set
kcos date-time date show
```

kcos deployment commands

The `deployment` CLI commands enable control over the installation, upgrading, and downgrading of software components on your system, as well as listing the software packages that are installed on your system and packages that are available for installation.

kcos deployment available-updates

Use the **kcos deployment available-updates** command to list the packages that are available for online installation.

Syntax

```
kcos deployment available-updates [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos deployment available-updates
```

See also

```
kcos deployment online-install
```

kcos deployment offline-install

Use the **kcos deployment offline-install** command to install/upgrade/downgrade software components from package(s) that you have obtained from the support portal. Offline installation is required for products that may operate in an isolated environment with no Internet access.

Syntax

```
kcos deployment offline-install <offline package … > [flags]
```

Flags

-h, --help	Display help for the command.
-r --reboot	If any software component requires it, automatically trigger a system reboot once the deploy operation is complete.

Arguments

offline package	A space-separated list of offline packages (one or more) to install.

Examples

```
kcos deployment offline-install aps-kcos/9.17.39 --reboot
kcos deployment offline-install aps-kcos/9.17.39 aps-bps/9.17.13 -r
kcos deployment offline-install aps-bps/9.17.13
kcos deployment offline-install "abc xyz"
```

See also

```
kcos deployment packages show
kcos deployment online-install
```

Notes

- The offline-packages (tar files) are available for download from your product's support portal.
- Once downloaded, transfer the package to the system where the offline deploy operation will be executed. You will then use the package name and path as the argument in the command.
- KCOS will ignore the command if it specifies a package that is already installed.

kcos deployment online-install

Use the **kcos deployment online-install** command to install/upgrade/downgrade software components from the Keysight online repository. The command requires a space-separated list of online packages (one or more) to install.

Syntax

```
kcos deployment online-install <package-name[/version] … > [flags]
```

Flags

-h, --help	Display help for the command.
-r, --reboot	If any software component requires it, automatically trigger a system reboot once the deploy operation is complete.

Arguments

package-name	The name of the package to install.
/version	An optional version number for the package.

Examples

```
kcos deployment online-install aps-kcos/9.17.39 aps-bps/9.17.13
kcos deployment online-install aps-kcos/9.17.39 --reboot
kcos deployment online-install "abc xyz"
```

See also

```
kcos deployment available-updates
kcos deployment packages show
kcos deployment offline-install
```

Notes

- Use the `kcos deployment available-updates` command to get a list of online packages that are available for deployment.
- If the package name and version number string includes spaces, then enclose it in double-quotes.
- KCOS will ignore the command if it specifies a package that is already installed.

kcos deployment packages show

Use the **kcos deployment packages show** command to display the list of installed packages (package name and version number).

Syntax

```
kcos deployment packages show [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos deployment packages show
```

See also

```
kcos deployment available-updates
kcos deployment offline-install
kcos deployment online-install
```

kcos deployment progress show

Use the **kcos deployment progress show** command to show progress information for a pending install operation. The command continually displays the status until the operation completes, unless you use the --once flag.

Syntax

```
kcos deployment progress show [flags]
```

Flags

-h, --help	Display help for the command
-o, --once	Display the status once, and then exit (as opposed to continually displaying it until the operation completes).

Arguments

None.

Examples

```
kcos deployment progress show
kcos deployment progress show --once
```

See also

```
kcos deployment packages show
kcos deployment offline-install
```

kcos exit

Use the **kcos exit** command to exit from the current KCOS Shell, returning to the default Linux shell.

Syntax

```
exit [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
exit --help
exit
```

See also

```
kcos shell
```

kcos licensing commands

The `licensing` CLI commands enable management of the software licensing for the node on which KCOS is running.

kcos licensing counted-feature-stats show

Use the **kcos licensing counted-feature-stats show** command to display the counted-feature statistics.

Syntax

```
kcos licensing counted-feature-stats show [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos licensing counted-feature-stats show --help
```

See also

```
kcos licensing hostid show
kcos licensing licenses show
```

kcos licensing hostid show

Use the **kcos licensing hostid show** command to display the HostID of the license server.

Syntax

```
kcos licensing hostid show [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos licensing hostid show --help
```

See also

```
kcos licensing counted-feature-stats show
kcos licensing licenses show
```

kcos licensing licenses activate

Use the **kcos licensing licenses activate** command to activate one or more licenses.

Syntax

```
kcos licensing licenses activate <{--fulfillments | -f} <name …> |
     [--help | -h]
```

Flags

-h, --help	Display help for the command

Arguments

-f, --fulfillment name	The name of the Fulfillment to activate. The format is **code_1:qty code_2:qty**, where each *code_n* value is an activation code that uniquely identifies the license and *qty* is the number of licenses to activate.

Examples

```
kcos licensing licenses activate -f codeA:10 codeB:7
```

See also

```
kcos licensing licenses show
kcos licensing licenses deactivate
```

kcos licensing licenses deactivate

Use the **kcos licensing licenses deactivate** command to deactivate one or more licenses.

Syntax

```
kcos licensing licenses deactivate <{--fulfillments | -f} <name …> |
     [--help | -h]
```

Flags

-h, --help	Display help for the command

Arguments

-f, --fulfillments name	The Fulfillments to deactivate. The format is **code_1:qty code_2:qty**.

Examples

```
kcos licensing licenses deactivate -f codeA:4 codeB:10
```

See also

```
kcos licensing licenses show
kcos licensing licenses deactivate
```

kcos licensing licenses show

Use the **kcos licensing licenses show** command to display the list of installed licenses.

Syntax

```
kcos licensing licenses show [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos licensing licenses show --help
```

See also

```
kcos licensing licenses activate
kcos licensing licenses deactivate
```

kcos licensing offline-license import

Use the **kcos licensing offline-license import** command to import an offline license.

Syntax

```
kcos licensing offline-license import <offline_license_path>
     [--help | -h]
```

Flags

-h, --help	Display help for the command

Arguments

offline_license_path	The location of the offline license.

Examples

```
kcos licensing offline-license import /home/user1/OfflineLicense1.bin
```

See also

```
kcos licensing offline-request generate
kcos licensing licenses show
```

Notes

The KCOS shell provides a `/home/[user]/` directory to which users can upload files:

```
kcos licensing offline-license import /home/<user>/<offline_license_name>.bin
```

kcos licensing offline-request generate

Use the **kcos licensing offline-request generate** command to generate an offline request file that can be used on the Keysight offline licensing portal.

Syntax

```
kcos licensing offline-request generate [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos licensing offline-request generate
```

See also

```
kcos licensing offline-request import
```

kcos licensing sync

Use the **kcos licensing sync** command to synchronize the license server with Keysight Software Manager (KSM).

Syntax

```
kcos licensing sync [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos licensing sync
```

See also

```
kcos licensing licenses show
```

kcos logs commands

The **logs** CLI commands provide the tools for collecting diagnostics logs for a system and also for displaying the log for an application that is running on the system.

kcos logs application

Use the **kcos logs application** command to display the last 100 lines of the log for an application or a BMC.

Syntax

```
kcos logs application [flags]
```

Flags

-a, --application app-name	The name of the application for which you are retrieving the log. The *app-name* can be either a software application name (such as *bps*) or the name of a BMC (such as *kcos-sol-bmc-00-18-a0-ae-4a-45*).
-c, --container container-name	The name of the container in which the application is running. The container name is required only if the pod has more than one container. Note that BMC pods have only one container.
-h, --help	Display help for the command.

Arguments

None.

Examples

```
kcos logs application -a BPS
kcos logs application -a BPS -c container4
kcos logs application -a kcos-sol-bmc-00-18-a0-ae-4a-45
kcos logs application -h
```

See also

`kcos logs diagnostics collect`

Notes

If you enter `kcos logs application` without a flag, KCOS will list the available applications and BMCs.

kcos logs diagnostics collect

Use the **kcos logs diagnostics collect** command to collect chassis logs for all available components or for selected components and/or subcomponents.

Syntax

```
kcos logs diagnostics collect <<flags> [string array]>
```

Flags

-a, --all	Collect logs for all available components.
-c, --components stringArray	Collect logs for the components specified by [stringArray], where [stringArray] is a single component name.
-g, --get-components	Get the list of available components.
-h, --help	Display help for the command.
-o, --option stringArray	Option for the selected subcomponent. The -o flag always requires the -v flag.
-s, --subcomponents stringArray	Collect logs for the subcomponents specified by [stringArray], where [stringArray] is a single subcomponent name.
-v, --value stringArray	Value for the selection option.

Arguments

string array	A list of one or more component names (if the **-c** flag is used) or subcomponent names (if the **-s** flag is used).

Examples

```
kcos logs diagnostics collect --all
kcos logs diagnostics collect --get-components
kcos logs diagnostics collect -c kcos-system-diagnostics -s clusterinfo
-s elasticdump
kcos logs diagnostics collect -c kcos-system-diagnostics -s clusterinfo
-s elasticdump -o index-name -v <index value>
```

See also

```
kcos logs application
kcos system welcome-screen show
kcos snapshot show
```

Notes

- Each component must be specified with `-c` and each subcomponent with `-s`
- Using component options works for only one subcomponent at a time.

- Once the log collection is complete, KCOS will show the path to the zip file.
- You can use the SFTP client from any machine to connect to the KCOS framework shell and download the zip file.
- Once you download the archive:
  a. Unzip the *logs-yyyy-mm-dd-hh-min-sec.zip*.file.
  b. Unzip the kcos-system-diagnostics and the agent-diagnostics zip files.
  c. Access the log files from the folders that were contained in the zip files.

kcos networking commands

Using the `networking` CLI commands, you can add, delete, and show the DNS servers for the node on which KCOS is running; and configure the hostname and domain name for the node.

kcos networking dns-servers add

Use the **kcos networking dns-servers add** command to add one or more DNS servers for the node on which KCOS is running.

Syntax

```
kcos networking dns-servers add <DNS server address … > [flags]
```

Flags

-h, --help	Display help for the command

Arguments

DNS server address	A space-separated list of one or more DNS server IP addresses.

Examples

```
kcos networking dns-servers add 192.168.12.2
kcos networking dns-servers add 10.38.140.2 192.168.12.10
```

See also

```
kcos networking dns-servers delete
kcos networking dns-servers show
```

Notes

The order in which you enter the DNS server addresses determines their priority. The first server listed has highest priority, with each additional server having a lesser priority.

kcos networking dns-servers delete

Use the **kcos networking dns-servers delete** command to delete the complete list of DNS servers from the node.

Syntax

```
kcos networking dns-servers delete [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos networking dns-servers delete
```

See also

```
kcos networking dns-servers add
kcos networking dns-servers show
```

kcos networking dns-servers show

Use the **kcos networking dns-servers show** command to display the list of DNS servers configured on the node. The output displays the DNS servers in order of priority, with the highest priority server listed first .

Syntax

```
kcos networking dns-servers show [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos networking dns-servers show
```

See also

```
kcos networking dns-servers add
kcos networking dns-servers delete
```

kcos networking hostname set

Use the **kcos networking hostname set** command to configure the hostname—and optionally the domain name—for the node on which KCOS is running.

Syntax

```
kcos networking hostname set <hostname[.<domain name>]> [flags]
```

Flags

-h, --help	Display help for the command

Arguments

hostname	The hostname to assign to the node. The hostname may be a simple name or an FQDN. The semantics are identical to /etc/hostname.
domain name	The domain name to assign to the node. This argument is optional.

Examples

```
kcos networking hostname set kcosMaster27
kcos networking hostname set north14.xyz.is.keysight.com
```

See also

```
kcos networking hostname show
```

Notes

The hostname must observe the following requirements:

- may contain letters and digits
- may contain only the following special characters: hyphen and dot ("-", ".")
- an alpha character must follow each dot
- cannot start with a digit, hyphen, or dot
- cannot end with hyphen (if it ends with a dot, the dot will be removed)
- cannot have more than 63 characters

kcos networking hostname show

Use the **kcos networking hostname show** command to display the node's hostname.

Syntax

```
kcos networking hostname show [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos show hostname
```

See also

```
kcos networking hostname set
```

kcos networking ip set

Use the **kcos networking ip set** command to set the IPv4 or IPv6 address for an interface on the node on which KCOS is running. You can designate the address as either DHCP-assigned or static IP.

Syntax

```
kcos networking ip set <<interface>
     <{dhcp|dhcpv4|dhcpv6} | IP-address [subnet]>> [flags]
```

Flags

-h, --help	Display help for the command

Arguments

interface	The name of the interface on which the IP address is being set.
dhcp|dhcpv4|dhcpv6	Designates the address as DHCP-assigned: • Specify "dhcpv4" or "dhcpv6" to enable DHCP only on IPv4 or IPv6. • Specify "dhcp" to enable DHCP on both IPv4 and IPv6.
IP/subnet	The static IPv4 or IPv6 address and (optionally) the subnet.
gateway	The address of the gateway.

Examples

```
kcos networking ip set mgmt0 dhcp
kcos networking ip set mgmt0 dhcpv6
kcos networking ip set mgmt1 10.200.1.20/24
kcos networking ip set mgmt1 10.200.1.20/24 10.200.1.1
```

See also

```
kcos networking ip show
```

kcos networking ip show

Use the **kcos networking ip show** command to show the following information for each network interface: interface name, IP addresses (IPv4 and/or IPv6), MAC address, state, and gateways (if any).

Syntax

```
kcos networking ip show [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos networking ip show
kcos networking ip show --help
```

See also

```
kcos networking ip set
```

kcos shell

Use the **kcos shell** command to enter the KCOS shell in the command window. While working in the shell, the prompt changes to **kcos>** and you directly enter KCOS commands without preceding them with "kcos". The KCOS shell recognizes only KCOS commands.

Syntax

```
kcos shell [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos shell --help
kcos shell
```

See also

```
kcos exit
```

Notes

Exiting the KCOS Shell returns you to the default Bash shell.

kcos snapshot commands

The `snapshot` CLI commands enable the creation and management of system snapshots on the node in which KCOS is running.

kcos snapshot create

Use the **kcos snapshot create** command to create a new system snapshot of the node on which KCOS is running. The snapshot-create operation requires a reboot.

Syntax

```
kcos snapshot create <snapshot-label> [flags]
```

Flags

-h, --help	Display help for the command.
-y, --yes	Confirm reboot. The reboot is needed to quiesce the system, and thereby ensure that it is in a consistent state before the snapshot it taken.

Arguments

snapshot-label	A label to assign to this snapshot.

Examples

```
kcos snapshot create label20210928 --yes
kcos snapshot create 20211204 -y
```

See also

```
kcos snapshot delete
kcos snapshot restore
kcos snapshot show
```

kcos snapshot delete

Use the **kcos snapshot delete** command to delete an existing system snapshot.

Syntax

```
kcos snapshot delete <snapshot-name> [flags]
```

Flags

-h, --help	Display help for the command

Arguments

snapshot-name	The name of the snapshot to be deleted.

Examples

```
kcos snapshot delete snapshotDec19
kcos snapshot delete shapshotJan20
```

See also

```
kcos snapshot create
kcos snapshot restore
kcos snapshot show
```

kcos snapshot restore

Use the **kcos snapshot restore** command to restore the system from a specific system snapshot. The snapshot-restore operation requires a reboot.

Syntax

```
kcos snapshot restore <snapshot-name> [flags]
```

Flags

-h, --help	Display help for the command.
-y, --yes	Confirm reboot. The reboot is needed to restart the system using the restored snapshot.

Arguments

snapshot-name	The name of the snapshot to restore.

Examples

```
kcos snapshot restore snapshotDec19 --yes
kcos snapshot restore snapshotFeb20 -y
```

See also

```
kcos snapshot delete
kcos snapshot create
kcos snapshot show
```

kcos snapshot show

Use the **kcos snapshot show** command to display a list of the existing system snapshots.

Syntax

```
kcos snapshot show [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos snapshot show
kcos snapshot show -h
```

See also

```
kcos snapshot delete
kcos snapshot create
kcos snapshot restore
```

kcos system commands

The `system` CLI commands enable system-level control of the node on which KCOS is running, including powering off the node, rebooting the node, and displaying system-level information.

kcos system poweroff

Use the **kcos system poweroff** command to start a shutdown and power-off the system.

Syntax

```
kcos system poweroff [flags]
```

Flags

-h, --help	Display help for the command
-y, --yes	Confirm the power-down operation

Arguments

None.

Examples

```
kcos system poweroff --yes
```

See also

```
kcos system reboot
```

kcos system reboot

Use the **kcos system reboot** command to reboot the system.

Syntax

```
kcos system reboot [flags]
```

Flags

-h, --help	Display help for the command
-y, --yes	Confirm the reboot operation

Arguments

None.

Examples

```
kcos system reboot --yes
```

See also

```
kcos system poweroff
```

kcos system welcome-screen show

Use the **kcos system welcome-screen show** command to display the welcome message/banner for the admin user. The displayed information includes the node's IP address and the names of the installed packages.

Syntax

```
kcos system welcome-screen show [flags]
```

Flags

-h, --help	Display help for the command

Arguments

None.

Examples

```
kcos system welcome-screen show
```

See also

```
kcos networking ip show
```

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This information is subject to change without notice.

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