



Overview of the Cisco EPNM Command-Line Interface

This chapter provides an overview of how to access the Cisco Evolved Programmable Network Manager (EPNM) command-line interface (CLI), the different command modes, and the commands that are available in each mode.

You can configure and monitor the Cisco EPNM through the web interface. You can also use CLI to perform the configuration and monitoring tasks described in this guide.

- [Accessing the Cisco EPNM Command Environment, on page 2](#)
- [User Accounts and Modes in Cisco EPNM CLI, on page 3](#)
- [Command Modes in the Cisco EPNM CLI, on page 4](#)

Accessing the Cisco EPNM Command Environment

You can access the Cisco EPN Manager CLI through a secure shell (SSH) client or the console port using one of the following machines:

- Windows PC running Windows 7 and later
- Apple Computer running Mac OS X 10.4 and later
- PC running Linux

User Accounts and Modes in Cisco EPNM CLI

The below mentioned types of accounts are available on the Cisco EPNM CLI:

- Admin (administrator)
- Network Admin
- Security Admin
- User

When you power on the Cisco EPNM appliance for the first time, you are prompted to run the setup utility to configure the appliances. During this setup process, an administrator user account, also known as an Admin account, is created. After you enter the initial configuration information, the appliance automatically reboots and prompts you to enter the username and the password that you specified for the Admin account. You must use this Admin account to log in to the Cisco EPNM CLI for the first time.

An Admin can create and manage user accounts (which have limited privileges and access to the Cisco EPNM server). An Admin account also provides the functionality that is needed to use the EPNM CLI.

To create more users (with admin, security-admin, network-admin, and user privileges) with SSH access to the Cisco EPNM CLI, you must enter the **username** command in configuration mode (see [Command Modes in the Cisco EPNM CLI](#)).



Note A user with an admin role can be assigned for user admin role alone and not with any other user role type mentioned above, once the installation is completed.

Logging in to the Cisco EPNM server places you in user mode or admin (EXEC) mode, which always requires a username and password for authentication.

You can tell which mode you are in by looking at the prompt. A right angle bracket (>) appears at the end of user mode prompt; a pound sign (#) appears at the end of admin mode prompt, regardless of the submode.

Command Modes in the Cisco EPNM CLI

This section describes the command modes supported in Cisco EPNM.

EXEC Commands

EXEC commands primarily include system-level commands such as **show** and **reload** (for example, application installation, application start and stop, copy files and installations, restore backups, and display information).

- [Table 1: Summary of EXEC Commands](#) describes the EXEC commands
- [Table 2: Summary of show Commands](#) describes the show commands in EXEC mode

For detailed information on EXEC commands, see [Understanding Command Modes](#).

EXEC or System-Level Commands

[Table 1: Summary of EXEC Commands](#) describes EXEC mode commands.

Table 1: Summary of EXEC Commands

	Description
application install	Installs a specific application bundle.
application remove	Uninstalls a specific application bundle.
application reset-config	Resets the application configuration to factory defaults.
application start	Starts or enables a specific application.
application stop	Stops or disables a specific application.
application upgrade	Upgrades a specific application bundle.
backup	Performs a backup and places the backup in a repository.
backup-logs	Performs a backup of all the logs on the Cisco EPNM to a remote location.
backupui	Performs a backup of the system
banner	Sets messages while logging in to CLI (pre-login).
change password	Changes the current CLI user password
clock	Sets the system clock on the Cisco EPNM server.
configure	Enters configuration mode.
copy	Copies any file from a source to a destination.

	Description
debug	Displays any errors or events for various command situations; for example, backup and restore, configuration, copy, resource locking, file transfer, and user management.
delete	Deletes a file in the Cisco EPNM server.
dir	Lists the files in the Cisco EPNM server.
exit	Disconnects the encrypted session with a remote system. Exits from the current command mode to the previous command mode.
export	Exports data for CW migration.
forceout	Forces the logout of all the sessions of a specific Cisco EPNM server system user.
halt	Disables or shuts down the Cisco EPNM server.
mkdir	Creates a new directory.
ncs	NCS related commands such as start, stop, ha, and so on.
nslookup	Queries the IPv4 address or hostname of a remote system.
patch	Installs System or Application patch.
ping	Determines the IPv4 network connectivity to a remote system.
ping6	Determines the IPv6 network connectivity to a remote system.
reload	Reboots the Cisco EPN Manager server.
restore	Restores a previous backup.
rmdir	Removes an existing directory.
rsakey	Displays a configured RSA key or sets a new RSA public key for user authentication.
sam	SAM top level command.
shell	Executes the root shell.
shell disable	Disables the shell user from restoring admin shell access.
show	Provides information about the Cisco EPNM server.
ssh	Starts an encrypted session with a remote system.
ssh delete	Deletes the ssh fingerprint for a specific host.
tech	Provides Cisco Technical Assistance Center (TAC) commands.
telnet	Establishes a Telnet connection to a remote system.

	Description
terminal length	Sets terminal line parameters.
terminal session-timeout	Sets the inactivity timeout for all terminal sessions.
terminal session-welcome	Sets the welcome message on the system for all terminal sessions.
terminal terminal-type	Specifies the type of terminal connected to the current line of the current session.
traceroute	Traces the route of a remote IP address.
undebg	Disables the output (display of errors or events) of the debug command for various command situations; for example, backup and restore, configuration, copy, resource locking, file transfer, and user management.
write erase	Erases the startup configuration that forces to run the setup utility and prompt the network configuration, copies the running configuration to the startup configuration, and displays the running configuration on the console.
write memory	Writes running configuration for a startup configuration.
write terminal	Writes running configuration to a console.

show Commands

The **show** commands are used to display the Cisco EPNM settings and are among the most useful commands. See the table [show Commands, on page 6](#) for a summary of the **show** commands. The **show** commands must be followed by a keyword; for example, **show application status**. Some **show** commands require an argument or variable after the keyword to function; for example, **show application version**.

Table 2: Summary of show Commands

	Description
application (requires keyword)	Displays information about the installed application; for example, status information or version information.
backup (requires keyword)	Displays information about the backup.
banner (requires keyword)	Sets up messages when logging in to CLI.
cdp (requires keyword)	Displays information about the enabled Cisco Discovery Protocol interfaces.
clock	Displays the day, date, time, time zone, and year of the system clock.
cpu	Displays CPU information.
disks	Displays file-system information of the disks.

	Description
icmp-status	Displays the Internet Control Message Protocol (ICMP) echo response configuration information.
interface	Displays statistics for all the interfaces that are configured on the Cisco EPNM.
inventory	Displays information about the hardware inventory, including the Cisco EPNM appliance model and serial number.
ip route	Displays the IP route details of the application.
logging	Displays the Cisco EPNM server logging information.
logins (cli - only keyword)	Displays the login history of the Cisco EPNM server.
memory	Displays memory usage by all running processes.
netstat	Displays the netstat and firewall information.
ntp	Displays the status of the Network Time Protocol (NTP) servers.
ports	Displays all the processes listening on the active ports.
process	Displays information about the active processes of the Cisco EPNM server.
repository (requires keyword)	Displays the file contents of a specific repository.
restore (requires keyword)	Displays the restore history in the Cisco EPNM.
running-config	Displays the contents of the configuration file that currently runs in the Cisco EPNM.
security-status	Displays whether the services/ports are enabled or disabled
startup-config	Displays the contents of the startup configuration in the Cisco EPNM.
tech-support file (requires keyword)	Displays system and configuration information that you can provide to the TAC when you report a problem.
terminal	Displays information about the terminal configuration parameter settings for the current terminal line.
timezone	Displays the current time zone in the Cisco EPNM.
timezones	Displays all the time zones available for use in the Cisco EPNM.
udi	Displays information about the unique device identifier (UDI) of the Cisco EPNM.
uptime	Displays how long the system you are logged in to has been up and running.
users	Displays information about the system users.

	Description
version	Displays information about the currently loaded software version, along with hardware and device information.

Configuration Commands

Configuration commands include **interface** and **repository**. To access configuration mode, run the **configure** command in EXEC mode.

Some of the configuration commands require that you enter the configuration submode to complete the configuration.

[Table 3: Summary of Configuration Commands](#) describes the configuration commands.

Table 3: Summary of Configuration Commands

	Description
aaa authentication	Logs in to EPNM server remotely.
backup-staging-url	Specifies a Network File System (NFS) temporary space or staging area for the remote directory for backup and restore operations.
cdp holdtime	Specifies the amount of time the receiving device should hold a Cisco Discovery Protocol packet from the server before discarding it.
cdp run	Enables Cisco Discovery Protocol.
cdp timer	Specifies how often the EPNM server sends Cisco Discovery Protocol updates.
clock timezone	Sets the time zone for display purposes.
do	Executes an EXEC-level command from configuration mode or any configuration submode. Note To initiate, the do command precedes the EXEC command.
end	Returns to EXEC mode.
exit	Exits configuration mode.
hostname	Sets the hostname of the system.
icmp	Configures the ICMP echo requests.
interface	Configures an interface type and enters interface configuration mode.
ip access-list	Configures Access Control Lists (ACL).
ip default-gateway	Defines or sets a default gateway with an IP address.
ip domain-name	Defines a default domain name that a EPNM server uses to complete hostnames.
ip name-server	Sets the Domain Name System (DNS) servers for use during a DNS query.

	Description
ip route	Configures the IP routes.
kron occurrence	Schedule one or more Command Scheduler commands to run at a specific date and time or a recurring level.
kron policy-list	Specifies a name for a Command Scheduler policy.
logging	Enables the system to forward logs to a remote system.
logging loglevel	Configures the log level for the logging command.
logging security	Security configuration for the logging command.
logging sync-logs	Configures and enables continuous logs to sync into a repository.
no	Disables or removes the function associated with the command.
ntp	Synchronizes the software clock through the NTP server for the system.
password-policy	Enables and configures the password policy.
repository	Enters repository submode.
service	Specifies the type of service to manage.
snmp-server community	Sets up the community access string to permit access to the Simple Network Management Protocol (SNMP).
snmp-server contact	Configures the SNMP contact the Management Information Base (MIB) value on the system.
snmp-server host	Sends SNMP traps to a remote system.
snmp-server location	Configures the SNMP location MIB value on the system.
username	Adds a user to the system with a password and a privilege level.

For detailed information on configuration mode and submode commands, see [Understanding Command Modes](#).

