

# Firepower Management Center Command Line Reference

This reference explains the command line interface (CLI) for the Firepower Management Center.

**Note** For Classic devices (7000 and 8000 Series, ASA FirePOWER, NGIPSv), see Classic Device Command Line Reference.

**Note** For Firepower Threat Defense, see the Cisco Firepower Threat Defense Command Reference.


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# About the Firepower Management Center CLI

The Firepower Management Center CLI is available only when a user with the `admin` user role has enabled it:

- By default the CLI is not enabled, and users who log into the Firepower Management Center using CLI/shell accounts have direct access to the Linux shell.
- When the CLI is enabled, users who log in the Firepower Management Center using shell/CLI accounts have access to the CLI and must use the `expert` command to access the Linux shell.

**Caution** We strongly recommend that you do not access the Linux shell unless directed by Cisco TAC or explicit instructions in the Firepower user documentation.

**Caution** Users with Linux shell access can obtain root privileges, which can present a security risk. For system security reasons, we strongly recommend:

- If you establish external authentication, make sure that you restrict the list of users with Linux shell access appropriately.
- Do not establish Linux shell users in addition to the pre-defined `admin` user.

When the CLI is enabled, you can use the commands described in this appendix to view and troubleshoot your Firepower Management Center, as well as perform limited configuration operations.

# Firepower Management Center CLI Modes

The CLI encompasses four modes. The default mode, CLI Management, includes commands for navigating within the CLI itself. The remaining modes contain commands addressing three different areas of Firepower Management Center functionality; the commands within these modes begin with the mode name: `system`, `show`, or `configure`.

When you enter a mode, the CLI prompt changes to reflect the current mode. For example, to display version information about system components, you can enter the full command at the standard CLI prompt:

```
> show version
```

If you have previously entered `show` mode, you can enter the command without the `show` keyword at the show mode CLI prompt:

```
show> version
```

# Enabling the Firepower Management Center CLI

| Smart License | Classic License | Supported Devices | Supported Domains | Access |
|---|---|---|---|---|
| N/A | Any | FMC | Any | `admin` |

Once the Firepower Management Center CLI is enabled, the initial access to the appliance for users logging in to the management interface will be via the CLI; the Linux shell will be accessible only via the `expert` command.

**Note** If the administrator has disabled access to the device shell with the `system lockdown` command, the **Enable CLI Access** checkbox is checked and grayed out.

**Procedure**

**Step 1** Choose **System** > **Configuration**.

**Step 2** Click **Console Configuration**.

**Step 3** To enable or disable the Firepower Management Center CLI check or uncheck the **Enable CLI Access** checkbox.

**Step 4** Click **Save**.

# Firepower Management Center CLI Management Commands

The CLI management commands provide the ability to interact with the CLI. These commands do not affect the operation of the device.

## exit

Moves the CLI context up to the next highest CLI context level. Issuing this command from the default mode logs the user out of the current CLI session.

### Syntax

```
exit
```

### Example

```
system> exit
>
```

## expert

Invokes the Linux shell.

### Syntax

```
expert
```

### Example

```
> expert
```

## ? (question mark)

Displays context-sensitive help for CLI commands and parameters. Use the question mark (`?`) command as follows:

- To display help for the commands that are available within the current CLI context, enter a question mark (`?`) at the command prompt.
- To display a list of the available commands that start with a particular character set, enter the abbreviated command immediately followed by a question mark (`?`).

- To display help for a command's legal arguments, enter a question mark (?) in place of an argument at the command prompt.

Note that the question mark (?) is not echoed back to the console.

#### Syntax

```
?
abbreviated_command ?
command [arguments] ?
```

#### Example

```
> ?
```

# Firepower Management Center CLI Show Commands

Show commands provide information about the state of the appliance. These commands do not change the operational mode of the appliance and running them has minimal impact on system operation.

## version

Displays the product version and build.

#### Syntax

```
show version
```

#### Example

```
> show version
```

# Firepower Management Center CLI Configuration Commands

The configuration commands enable the user to configure and manage the system. These commands affect system operation.

## password

Allows the current CLI/shell user to change their password.

**Caution** For system security reasons, we strongly recommend that you do not establish Linux shell users in addition to the pre-defined **admin** on any appliance.

**Note** The `password` command is not supported in export mode. To reset password of an admin user on a secure firewall system, see Learn more. If you use `password` command in expert mode to reset admin password, we recommend you to reconfigure the password using `configure user admin password` command. After you reconfigure the password, switch to expert mode and ensure that the password hash for admin user is same in /opt/cisco/config/db/sam.config and /etc/shadow files.

After issuing the command, the CLI prompts the user for their current (or old) password, then prompts the user to enter the new password twice.

### Syntax

```
configure password
```

### Example

```
> configure password
Changing password for admin.
(current) UNIX password:
New UNIX password:
Retype new UNIX password:
passwd: password updated successfully
```

# Firepower Management Center CLI System Commands

The system commands enable the user to manage system-wide files and access control settings.

## generate-troubleshoot

Generates troubleshooting data for analysis by Cisco.

### Syntax

`system generate-troubleshoot` *option1 optionN*

Where options are one or more of the following, space-separated:

- `ALL`: Run all of the following options.
- `SNT`: Snort Performance and Configuration
- `PER`: Hardware Performance and Logs

- `SYS`: System Configuration, Policy, and Logs
- `DES`: Detection Configuration, Policy, and Logs
- `NET`: Interface and Network Related Data
- `VDB`: Discover, Awareness, VDB Data, and Logs
- `UPG`: Upgrade Data and Logs
- `DBO`: All Database Data
- `LOG`: All Log Data
- `NMP`: Network Map Information

### Example

```
> system generate-troubleshoot VDB NMP
starting /usr/local/sf/bin/sf_troubleshoot.pl…
Please, be patient. This may take several minutes.
The troubleshoot options codes specified are VDB,NMP.
Getting filenames from [usr/local/sf/etc/db_updates/index]
Getting filenames from [usr/local/sf/etc/db_updates/base-6.2.3]
Troubleshooting information successfully created at
/var/common/results-06-14-2018—222027.tar.gz
```

# lockdown

Removes the `expert` command and access to the Linux shell on the device.



**Caution** This command is irreversible without a hotfix from Support. Use with care.

### Syntax

```
system lockdown
```

### Example

```
> system lockdown
```

# reboot

Reboots the appliance.

### Syntax

```
system reboot
```

### Example

```
> system reboot
```

## restart

Restarts the appliance application.

### Syntax

```
system restart
```

### Example

```
> system restart
```

## shutdown

Shuts down the appliance.

### Syntax

```
system shutdown
```

### Example

```
> system shutdown
```

# History for the Firepower Management Center CLI

| Feature | Version | Details |
|---|---|---|
| Ability to enable and disable CLI access for the FMC | 6.3 | New/Modified screens:<br>New check box available to administrators in FMC web interface: **Enable CLI Access** on the **System** > **Configuration** > **Console Configuration** page.<br>• Checked: Logging into the FMC using SSH accesses the CLI.<br>• Unchecked: Logging into FMC using SSH accesses the Linux shell. This is the default state for fresh Version 6.3 installations as well as upgrades to Version 6.3 from a previous release.<br>Supported platforms: FMC |
| FMC CLI | 6.3 | Feature introduced.<br>Initally supports the following commands:<br>• `exit`<br>• `expert`<br>• `?`<br>• `show version`<br>• `configure password`<br>• `system generate-troubleshoot`<br>• `system lockdown`<br>• `system reboot`<br>• `system restart`<br>• `system shutdown`<br>Supported platforms: FMC |