CLI Modes

Operational Mode:

Used to view information and logs. Can input operation commands to restart, load configurations, shutdowns and more.

Configuration Mode:

Used to view and modify the firewall configuration.

> To switch between Operational and configuration mode:

`configure`

```
username@hostname> configure
Entering configuration mode
[edit]
username@hostname#
```

> To exit configuration mode:

`quit`

```
username@hostname# quit
Exiting configuration mode
username@hostname>
```

Scripting Mode

This mode you can copy and paste commands from a text file directly into the CLI.

```
username@hostname> set cli scripting-mode on
```

> To exit scripting mode

```
set cli scripting-mode off
```

Basic Commands

Find Commands

`find command` : displays the entire command hierarchy.

`find command keyword <keyword>` : searches for commands that contain username in the command syntax.

Help Commands

`?` : you can get help on the specific command syntax by using the built-in CLI help. To get help, enter a `?` at any level of the hierarchy.

```
username@hostname# set deviceconfig system dns-setting ?
> dns-proxy-object Dns proxy object to use for resolving fqdns
> servers Primary and secondary dns servers
<Enter> Finish input
```

Set Terminal Output

`set cli config-output-format` : to change out put to JSON, XML, SET or Default.

User Accounts

`show mgt-config users` : Displays all current users

`set mgt-config users <admin> password` : Changes that users password

- [From the CLI can I update other admin account passwords?](#)
  `delete mgt-config users <admin>` : Delete that users account
- [How to Delete an Admin Account From the Firewall Command Line](#)
  `set mgt-config users <name> password` : Create a new account
  `set mgt-config users <name> permissions role-based <role profile>` : Give a user a role (Like Admin)
- [How to Create Management Users, Assign Roles, and Change Password from the PAN-OS CLI](#)

Admin Accounts

Admin Timeout

`set cli timeout` : to change how long an administrative session can remain idle.

Network Commands

Ping Command

Ping a device on the local network

```
run ping host <IP>
```

```
username@hostname# run ping host 10.1.1.2
PING 10.1.1.2 (10.1.1.2) 56(84) bytes of data
```

```
...
username@hostname#
```

Show Ethernet Interface Chart

```
show network interface ethernet
```

```
username@hostname>
configure
Entering configuration mode
[edit]
username@hostname# show network interface ethernet
ethernet {
        ethernet1/1 {
                virtual-wire;
        }
        ethernet1/2 {
                virtual-wire;
        }
        ethernet1/3 {
                layer2 {
                        units {
                                ethernet1/3.1;
                        }
                }
        }
        ethernet1/4;
}
[edit]
username@hostname#
```

Firewall Rules

[How to View, Create and Delete Security Policies on the CLI](#)

Create a New Security Policy

```
set rulebase security rules <name> from <source zone> to <destination zone> destination
<ip> application <application> service <any/application-default/service name> action
<allow/deny>
```

> Example: `# set rulebase security rules Generic-Security from Outside-L3 to Inside-L3 destination 63.63.63.63 application web-browsing service application-default action allow (press enter)`

Show current Security Policy

```
show running security-policy
```

Create a Firewall Rule

```
set rulebase security rules <Rule Name> from <Source Zone> to <Destination Zone> source any
destination any application any service any action allow
```