

Configuring a Switch

Two types of switches.

1. Unmanageable switches

- These switches are just plug and play.
- No configurations and verifications can be done.
- There is no console port.

2. Manageable switches

- These switches are also plug and play. (without do any changes we can use it also)
- It has console port and CLI access
- We can verify and modify configurations and can implement and test some advance switching technologies (VLAN, trunking)
- Can get a optimization result

CLI - command line interface

- Generally, has two modes of operation

– User Exec Mode – allows limited number of Monitoring commands. This is the default mode that comes after login. > prompt

– Privileged Exec Mode – Allows access to all device commands, could be password protected separately. #prompt

– In Privileged Exec mode there are two configuration modes

- Global configuration mode - which could be used to configure globally affected settings and configurations. Type configure terminal command in privileged exec mode then prompt changes to (config)#

- Interface configuration mode – could be used to configure interface specific commands. You have to use interface <interface name> to go to interface configuration mode. This has to be issued from global configuration mode.

Command Syntax

Cisco IOS CLI Command Syntax	
Switch from user EXEC to privileged EXEC mode	switch> enable
If a password has been set for privileged EXEC mode you will be prompted to enter it now.	Password: password
The # prompt signifies privileged EXEC mode.	switch#
Switch from privileged EXEC to user EXEC mode	switch# disable
The > prompt signifies user EXEC mode.	switch>

The Command Line Interface Modes

Cisco IOS CLI Command Syntax	
Switch from privileged EXEC mode to global configuration mode	switch# configure terminal
The (config)# prompt signifies that the switch is in global configuration mode.	switch(config)#
Switch from global configuration mode to interface configuration mode for fast ethernet interface 0/1.	switch(config)# interface fastethernet 0/1
The (config-if)# prompt signifies that the switch is in the interface configuration mode.	switch(config-if)#
Switch from interface configuration mode to global configuration mode.	switch(config-if)# exit
The (config)# prompt signifies that the switch is in global configuration mode.	switch(config)#
Switch from global configuration mode to privileged EXEC mode.	switch(config)# exit
The # prompt signifies that the switch is in privileged EXEC mode.	switch#