User Levels/Modes

Level	Mode	User View	Some Available Commands
1	User EXEC	Switch>	**enable** **ping** **show (basic only)**
2	Privileged EXEC	Switch#	**config** **User EXEC commands**
3	Global Config.	Switch**(config)#**	**hostname** **enable secret** **interface/router/line**
4a	Interface Config.	Switch**(config-if)#**	**shut/no shut** **switchport mode** **switchport access vlan**
4b	Router Config.	Switch**(config-router)#**	**version** **network**
4c	Line Config.	Switch**(config-line)#**	**login** **password**

Changing User Mode

Command	Abbreviated Command	Change in Mode
>enable	**>en**	Moves from User Exec to Privileged EXEC User is prompted for a password
#config terminal	**#config t**	Moves from Privileged EXEC to Global Config
(config)# interface [*type/number*]	**(config)# int [*type/number*]**	Moves to Interface Config
(config)# vlan *[#]*	**(config)# vl *[#]***	Moves to VLAN Config
exit		Exits current mode and moves back to previous mode

Remember to enter the appropriate mode while configuring/working. Some commands will only work in specific modes.

Getting Started - Global Configuration

Command	Purpose
hostname *name*	Configure hostname on device
int vlan [*#*] **ip address[*address*][*subnet mask*]**	Configure IP address on management VLAN
vlan [*#*] **name *[name/ip address]***	Configures vlan with specified name
ip default-gateway *address*	Configure default gateway
banner motd *#insert message#*	Configure banner message of the day
enable secret *[secret]*	Enables specified secret on device

Some of the commands used during the base config. Others are in the Google Doc.

Important Show (sh) Commands

Command	What it Shows

Sponsored by **CrosswordCheats.com**
Learn to solve cryptic crosswords!
http://crosswordcheats.com

Important Show (sh) Commands (cont)

sh boot	Boot path-list
sh cdp neighbors	Cisco Discovery Protocol neighbors
sh int [*type/number*]	Network statistics of specified interface (status, input errors, etc.)
sh int status	Names/statuses/VLANs/etc. of all interfaces
sh run int [*type/number*]	Running config on specified interface (switchport mode, switchport access vlan, etc.)
sh running-config (sh run)	Current switch configuration
sh history	Switch session command history
sh lldp neighbors	Link Layer Discovery Protocol neighbors
sh logging	Switch log (changes in int statuses)
sh power-inline	Switch inline power (Available/Used/Remaining)
sh spanning-tree **sh spanning-tree vlan #**	Spanning tree topology (Desg/Root) 2nd command: STP of specific vlan
sh switch	Switch stack information
sh version	Hardware and software statuses
sh vlan	VLANs/names/statuses/ports

Interface Types and Configuration

Components	Application/Purpose
Type(s) FastEthernet (fa) GigabitEthernet (gi) FiveGigabitEthernet (fi) TenGigabitEthernet (te)	**Type changes with sw model**: 3550/60 - fa 3750, 2960, 9200, 930024UN - gi 930048UN - fi
Stack Member Number 1-8 (Ex: **1**/0/1)	**Identifies int. switch stack position**
Module Number 0-1 (Ex: 1/**1**/1)	**Identifies module number** 0 = switch port 1 = uplink port
Port Number Ex: 1/0/**1** - 1/0/**48** 1/1/**1** - 1/1/**4**	**Identifies int. number on switch** 1-48 = switch ports 1-4 = uplink ports

Config Commands for Interfaces

Command	Purpose
switchport access vlan #	Assigns interface to the specified VLAN
switchport mode [*mode*] Access Trunk	Changes an interface's mode
switchport voice vlan #	Assigns interface to the specified voice VLAN

Sponsored by **CrosswordCheats.com**
Learn to solve cryptic crosswords!
http://crosswordcheats.com

Config Commands for Interfaces (cont)

ip dhcp snooping trust	Enables the DHCP snooping security feature. **Needed on trunk ports.***

***ip dhcp snooping trust** will make the port trusted and DHCP server messages/traffic can flow through that interface. Messages will be dropped otherwise.

Helpful Shortcuts on the Keyboard

Shortcut	Purpose
Ctrl-Z	Goes back to Privileged EXEC Mode (Switch#)
Tab	Autofills the rest of the command
Up Arrow	Types the last command entered
Right Click	Pastes what is currently copied in the clipboard

Commands for when you don't want to type everything in Cisco CLI.

Commands for Wiping a Switch

Command	Purpose
delete vlan.dat	Deletes VLAN Database from switch
write erase	Erases configuration files
reload	Prompts the switch to reboot

These commands can be performed in Privileged EXEC Mode. After executing the reload command, do not save the system configuration, as seen below:
System configuration has been modified. Save? [yes/no]: n

By **JKJK36**
cheatography.com/jkjk36/

Published 17th May, 2022.
Last updated 17th May, 2022.

Sponsored by **CrosswordCheats.com**
Learn to solve cryptic crosswords!
http://crosswordcheats.com