

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 [ <i>type/number</i> ]	(config)# int [ <i>type/number</i> ]	Moves to Interface Config
(config)# vlan [ <i>#</i> ]	(config)# vl [ <i>#</i> ]	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 <i>name</i>	Configure hostname on device
int vlan [ <i>#</i> ] ip address[ <i>address</i> ][ <i>subnet mask</i> ]	Configure IP address on management VLAN
vlan [ <i>#</i> ] name [ <i>name/ip address</i> ]	Configures vlan with specified name
ip default-gateway <i>address</i>	Configure default gateway
banner motd # <i>insert message</i> #	Configure banner message of the day
enable secret [ <i>secret</i> ]	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



### Important Show (sh) Commands (cont)

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

### Interface Types and Configuration

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

### Config Commands for Interfaces

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



### 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
<b>delete vlan.dat</b>	Deletes VLAN Database from switch
<b>write erase</b>	Erases configuration files
<b>reload</b>	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**



