

Modes		
Level	Mode	Prompt
1	User EXEC	Device>
2	Privileged EXEC	Device#
3	Global Config	Device(config)#
4a	Interface Config	Device(config-if)#
4b	Line Config	Device(config-line)

Keyboard Shortcuts	
Up Arrow	Automatically re-types last command
Ctrl+Shift+6	Oh crap, stop! (Cancels whatever it's currently doing)
Ctrl+C	Exits config mode
Ctrl+Z	Applies current command & returns to priv. EXEC mode
Ctrl+U	Erases anything on current prompt line
Tab	Completes abbreviated command

"Show" Commands	
Command	Information Displayed
show version	IOS version, memory capacity, etc.
show mac address-table	MAC address table
show ip route	routing table
show interface g0/0	status, MAC, IP, etc. for Gigabit Ethernet 0/0
show ip interface brief	name, IP, status, etc. (all interfaces)

Other Commands		
Command	From Mode	Function
sdm pre dual def	global config	used if switch won't take IPv6 address

General Commands		
Short Command	Complete Command	Function
en	enable	user EXEC > priv. EXEC
conf t	config terminal	priv. EXEC > global config
int	interface	global config > interface config
li	line	global config > line config
sh run	show running-config	shows current config
cop r s	copy running-config startup-config	saves current config
no ip dom lo	no ip domain-lookup	keeps router from trying to read bad cmds as host names
era star [Tab]	erase startup-config	MUST use after labs to reset router configs!
del vlan.dat	delete vlan.dat	MUST use after labs to reset router configs!



Initial Configuration (Switches and Routers)

Command	From Mode	What It Does
hostname xyz	global config	sets hostname to xyz
enable secret xyz	global config	sets encrypted password for priv. EXEC to xyz
service password-encrypt	global config	encrypts all passwords
line console 0	global config	enters line config mode for console
line vty 0 15	global config	enters line config mode for 16 vty lines
password xyz	line config	sets line password to xyz
login	line config	enables users to login
int vlan 1	global config	enters interface config mode for vlan1
ip address [IP] [subnet]	interface config	sets IP address
no shut	interface config	turns on interface
banner motd #Text Here#	global config	sets motd banner

Router-Specific Configuration Commands

Command	From Mode	Function
interface g0/1	global config	enters interface config for Gigabit Ethernet 0/1
ip address IP/prefix	interface config	sets interface's IPv4 address
no shut	interface config	turns on the interface
description description text	interface config	used to document info about the interface
ipv6 address IP/prefix	interface config	sets interface's IPv6 address
ipv6 address IP/prefix link-local	interface config	sets interface's IPv6 link-local address
ipv6 unicast-routing	global config	enables IPv6 routing



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