

### 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
<code>show version</code>	IOS version, memory capacity, etc.
<code>show mac address-table</code>	MAC address table
<code>show ip route</code>	routing table
<code>show interface g0/0</code>	status, MAC, IP, etc. for Gigabit Ethernet 0/0

### "Show" Commands (cont)

`show ip interface brief` name, IP, status, etc. (all interfaces)

### Other Commands

Command	From Mode	Function
<code>sdm pre dual def</code>	global config	used if switch won't take IPv6 address

### General Commands

Short Command	Complete Command	Function
<code>en</code>	<code>enable</code>	user EXEC mode
<code>conf t</code>	<code>config terminal</code>	privileged EXEC mode
<code>int</code>	<code>interface</code>	configure interface
<code>li</code>	<code>line</code>	configure line
<code>sh run</code>	<code>show runnin g-c onfig</code>	show configuration
<code>cop r s</code>	<code>copy runnin g-c onfig startu p-c onfig</code>	save configuration
<code>no ip dom lo</code>	<code>no ip domain-lookup</code>	disable domain lookup



### General Commands (cont)

<code>era star [Tab]</code>	<code>erase startu p-c onfig</code>	<b>MUST use after labs to reset router configs!</b>
<code>del vlan.dat</code>	<code>delete vlan.dat</code>	<b>MUST use after labs to reset router configs!</b>

### Initial Configuration (Switches and Routers)

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

### Initial Configuration (Switches and Routers) (cont)

`banner motd #Text Here#` global config sets motd banner

### Router-Specific Configuration Commands

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

