Summary of Cisco IOS commands

Action	Command
Enter global configuration mode.	**configure terminal**
	Example:
	Router> **enable**
	Router# **configure terminal**
	Router(config)#
Specify the router's name.	**hostname** *name*
	Example:
	Router(config)# **hostname Router1**
	Router1(config)#
Specify an encrypted password to prevent unauthorized access to privileged EXEC mode.	**enable secret** *password*
	Example:
	Router(config)# **enable secret cisco**
	Router(config)#
Specify a password to prevent unauthorized access to the console.	**password** *password*
	login
	Example:
	Router(config)# **line con 0**
	Router(config-line)# **password class**
	Router(config-line)# **login**
	Router(config-line)#
	Specify a password to prevent unauthorized Telnet access.
Router vty lines: 0 4	**password** *password*
	login
	Example:
	Router(config)# **line vty 0 4**
	Router(config-line)# **password class**
	Router(config-line)# **login**
	Router(config-line)#

Configure the MOTD banner.	**banner motd %**
	Example:
	Router(config)# **banner motd % banner text %**
	Router(config)#
	Configure an interface.
	Router: Interface is off by default
Switch: Interface is on by default	**interface type/port**
	Example:
	Router(config)# **interface fa0/0**
	Router(config-if)# **description** *description*
	Router(config-if)# **ip address** *address mask*
	Router(config-if)# **no shutdown**
	Router(config-if)#
Save the configuration to NVRAM.	**copy running-config startup-config**
	Example:
	Router# **copy running-config startup-config**
	Router#

CLI Hot Keys and Shortcut

CLI Line Editing

Shortcut	Description
Tab	Completes a partial command name entry.
Backspace	Erases the character to the left of the cursor.
Ctrl-D	Erases the character at the cursor.
Ctrl-K	Erases all characters from the cursor to the end of the command line.
Esc D	Erases all characters from the cursor to the end of the word.
Ctrl-U or Ctrl-X	Erases all characters from the cursor to the beginning of the command line.
Ctrl-W	Erases the word to the left of the cursor.
Ctrl-A	Moves the cursor to the beginning of the command line.
Left-arrow key or Ctrl-B	Moves the cursor one character to the left.
Esc F	Moves the cursor forward one word to the right.
Right-arrow key or Ctrl-F	Moves the cursor one character to the right.
Ctrl-E	Moves the cursor to the end of command line.
Up-arrow key or Ctrl-P	Recalls command in the history buffer, beginning with the most recent commands.
Ctrl-R, Ctrl-I, or Ctrl-L	Redisplays the system prompt and command line after a console message is received.

At the —More— Prompt

Shortcut	Description
Enter key	Displays the next line.
Spacebar	Displays the next screen.
Any other alphanumeric key	Returns to the EXEC prompt.

Break Keys

Shortcut	Description
Ctrl-C	When in any configuration mode, ends the configuration mode and returns to privileged EXEC mode. When in setup mode, aborts to the command prompt.
Ctrl-Z	When in any configuration mode, ends the configuration mode and returns to privileged EXEC mode.
Ctrl-Shift-6	All-purpose break sequence. Used to abort DNS lookups, traceroutes, pings.

router> ' user exec mode
router> enable   'privileged exec mode – now e can configure the router
router# configure terminal   'entering configuration of router
router (config)#hostname routerA

Ethernet Interface configuration

router (config)# interface fastethernet 0/0 'configure the ethernet port
router (config-if)# ip address 192.168.1.2 255.255.255.0
router (config-if)# no shutdown   ' turns the interface ON
router (config-if)#exit   ' back one level

Serial Interface configuration

router (config)# interface serial 0/0/0
router (config-if)# ip address 192.168.5.1 255.255.255.0
router (config-if)#clock rate ?   ' show valid clock rates
router (config-if)# clock rate 128000   ' bits per second on DCE only
router (config-if)# no shutdown
router (config-if)# exit

router (config)# exit
router # copy running-config startup-config

Static routes
ip route 0.0.0.0 0.0.0.0 10.10.10.6   'default route
ip route 172.16.0.0 255.255.0.0 10.10.10.5
ip route 172.31.24.0 255.255.0.0 192.168.254.254