

# How to Setup a Cisco Router (Lab\_A)

Step 1 – GLOBAL – Naming and Security		
Prompt	Command	Comment
router>	enable	
router#	configure terminal	
router(config)#	hostname <i>lab_a</i>	
router(config)#	enable secret <i>class</i>	
Step 2 – INTERFACE – Addressing Interfaces and Host Naming		
Prompt	Command	Comment
router(config)#	interface fastethernet 0/0 interface ethernet 0	For A Model 260X Router For A Model 250X Router
router(config-if)#	ip address <b>192.5.5.1 255.255.255.0</b>	IP Number Subnet Mask
router(config-if)#	no shutdown	
router(config-if)#	interface fastethernet 0/1 interface ethernet 1	For A Model 260X Router For A Model 250X Router
router(config-if)#	ip address <b>205.7.5.1 255.255.255.0</b>	IP Number Subnet Mask
router(config-if)#	no shutdown	
router(config-if)#	interface serial 0/0 interface serial 0	For A Model 260X Router For A Model 250X Router
router(config-if)#	ip address <b>201.100.11.1 255.255.255.0</b>	IP Number Subnet Mask
router(config-if)#	clock rate <b>56000</b>	
router(config-if)#	no shutdown	
router(config-if)#	exit	
router(config)#	ip host <i>lab_a</i> <b>192.5.5.1 205.7.5.1 201.100.11.1</b>	
router(config)#	ip host <i>lab_b</i> <b>219.17.100.1 199.6.13.1 201.100.11.2</b>	
router(config)#	ip host <i>lab_c</i> <b>223.8.151.1 204.204.7.1 199.6.13.2</b>	
router(config)#	ip host <i>lab_d</i> <b>210.93.105.1 204.204.7.2</b>	
router(config)#	ip host <i>lab_e</i> <b>210.93.105.2</b>	
Step 3 – ROUTING		
Prompt	Command	Comment
router(config)#	router rip	
router(config-router)#	network <b>192.5.5.0</b>	List only the directly connected
router(config-router)#	network <b>201.100.11.0</b>	networks
router(config-router)#	network <b>205.7.5.0</b>	
router(config-router)#	exit	
Step 4 – LINE		
Prompt	Command	Comment
router(config)#	line con 0	
router(config-line)#	login	
router(config-line)#	exec-timeout <b>480</b>	
router(config-line)#	password <i>cisco</i>	
router(config-line)#	line vty 0 4	
router(config-line)#	login	
router(config-line)#	exec-timeout <b>480</b>	
router(config-line)#	password <i>cisco</i>	
router(config-line)#	exit	
Step 5 – SAVE		
Prompt	Command	Comment
router(config)#	banner motd # <i>message#</i>	
router(config)#	service password-encryption	
router(config)#	exit	
router#	show running-config	
router#	copy running-config startup-config	
	press enter on confirm?	
router#	reload	
	press enter on confirm?	

# How to Setup a Cisco Router (Lab\_B)

## Step 1 – GLOBAL - Naming and Security

Prompt	Command	Comment
router>	enable	
router#	configure terminal	
router(config)#	hostname <b>lab_b</b>	
router(config)#	enable secret <b>class</b>	

## Step 2 – INTERFACE - Addressing Interfaces and Host Naming

Prompt	Command	Comment
router(config)#	interface fastethernet 0/0	For A Model 260X Router
	interface ethernet 0	For A Model 250X Router
router(config-if)#	ip address <b>219.17.100.1 255.255.255.0</b>	IP Number Subnet Mask
router(config-if)#	no shutdown	
router(config-if)#	interface serial 0/0	For A Model 260X Router
	interface serial 0	For A Model 250X Router
router(config-if)#	ip address <b>199.6.13.1 255.255.255.0</b>	IP Number Subnet Mask
router(config-if)#	clock rate <b>56000</b>	
router(config-if)#	no shutdown	
router(config-if)#	interface serial 0/1	For A Model 260X Router
	interface serial 1	For A Model 250X Router
router(config-if)#	ip address <b>201.100.11.2 255.255.255.0</b>	IP Number Subnet Mask
router(config-if)#	no shutdown	
router(config-if)#	exit	
router(config)#	ip host <b>lab_a 192.5.5.1 205.7.5.1 201.100.11.1</b>	
router(config)#	ip host <b>lab_b 219.17.100.1 199.6.13.1 201.100.11.2</b>	
router(config)#	ip host <b>lab_c 223.8.151.1 204.204.7.1 199.6.13.2</b>	
router(config)#	ip host <b>lab_d 210.93.105.1 204.204.7.2</b>	
router(config)#	ip host <b>lab_e 210.93.105.2</b>	

## Step 3 – ROUTING

Prompt	Command	Comment
router(config)#	router rip	
router(config-router)#	network <b>199.6.13.0</b>	
router(config-router)#	network <b>201.100.11.0</b>	
router(config-router)#	network <b>219.17.100.0</b>	
router(config-router)#	exit	

## Step 4 – LINE

Prompt	Command	Comment
router(config)#	line con 0	
router(config-line)#	login	
router(config-line)#	exec-timeout <b>480</b>	
router(config-line)#	password <b>cisco</b>	
router(config-line)#	line vty 0 4	
router(config-line)#	login	
router(config-line)#	exec-timeout <b>480</b>	
router(config-line)#	password <b>cisco</b>	
router(config-line)#	exit	

## Step 5 – SAVE

Prompt	Command	Comment
router(config)#	banner motd # <b>message#</b>	
router(config)#	service password-encryption	
router(config)#	exit	
router#	show running-config	
router#	copy running-config startup-config	
	press enter on confirm?	
router#	reload	
	press enter on confirm?	

# How to Setup a Cisco Router (Lab\_C)

## Step 1 – GLOBAL - Naming and Security

Prompt	Command	Comment
router>	enable	
router#	configure terminal	
router(config)#	hostname <i>lab_c</i>	
router(config)#	enable secret <i>class</i>	

## Step 2 – INTERFACE - Addressing Interfaces and Host Naming

Prompt	Command	Comment
router(config)#	interface fastethernet 0/0	For A Model 260X Router
	interface ethernet 0	For A Model 250X Router
router(config-if)#	ip address <b>223.8.151.1 255.255.255.00</b>	IP Number Subnet Mask
router(config-if)#	no shutdown	
router(config-if)#	interface serial 0/0	For A Model 260X Router
	interface serial 0	For A Model 250X Router
router(config-if)#	ip address <b>204.204.7.1 255.255.255.0</b>	IP Number Subnet Mask
router(config-if)#	clock rate <b>56000</b>	
router(config-if)#	no shutdown	
router(config-if)#	interface serial 0/1	For A Model 260X Router
	interface serial 1	For A Model 250X Router
router(config-if)#	ip address <b>199.6.13.2 255.255.255.0</b>	IP Number Subnet Mask
router(config-if)#	no shutdown	
router(config-if)#	exit	
router(config)#	ip host <i>lab_a</i> <b>192.5.5.1 205.7.5.1 201.100.11.1</b>	
router(config)#	ip host <i>lab_b</i> <b>219.17.100.1 199.6.13.1 201.100.11.2</b>	
router(config)#	ip host <i>lab_c</i> <b>223.8.151.1 204.204.7.1 199.6.13.2</b>	
router(config)#	ip host <i>lab_d</i> <b>210.93.105.1 204.204.7.2</b>	
router(config)#	ip host <i>lab_e</i> <b>210.93.105.2</b>	

## Step 3 – ROUTING

Prompt	Command	Comment
router(config)#	router rip	
router(config-router)#	network <b>199.6.13.0</b>	
router(config-router)#	network <b>204.204.7.0</b>	
router(config-router)#	network <b>223.8.151.0</b>	
router(config-router)#	exit	

## Step 4 – LINE

Prompt	Command	Comment
router(config)#	line con 0	
router(config-line)#	login	
router(config-line)#	exec-timeout <b>480</b>	
router(config-line)#	password <b>cisco</b>	
router(config-line)#	line vty 0 4	
router(config-line)#	login	
router(config-line)#	exec-timeout <b>480</b>	
router(config-line)#	password <b>cisco</b>	
router(config-line)#	exit	

## Step 5 – SAVE

Prompt	Command	Comment
router(config)#	banner motd # <i>message#</i>	
router(config)#	service password-encryption	
router(config)#	exit	
router#	show running-config	
router#	copy running-config startup-config	
	press enter on confirm?	
router#	reload	
	press enter on confirm?	

# How to Setup a Cisco Router (Lab\_D)

Step 1 – GLOBAL - Naming and Security		
Prompt	Command	Comment
router>	enable	
router#	configure terminal	
router(config)#	hostname <i>lab_d</i>	
router(config)#	enable secret <i>class</i>	
Step 2 – INTERFACE - Addressing Interfaces and Host Naming		
Prompt	Command	Comment
router(config)#	interface fastethernet 0/0 interface ethernet 0	For A Model 260X Router For A Model 250X Router
router(config-if)#	ip address <b>210.93.105.1 255.255.255.0</b>	IP Number Subnet Mask
router(config-if)#	no shutdown	
router(config-if)#	interface serial 0/1 interface serial 1	For A Model 260X Router For A Model 250X Router
router(config-if)#	ip address <b>204.204.7.2 255.255.255.0</b>	IP Number Subnet Mask
router(config-if)#	no shutdown	
router(config-if)#	exit	
router(config)#	ip host <i>lab_a</i> 192.5.5.1 205.7.5.1 201.100.11.1	
router(config)#	ip host <i>lab_b</i> 219.17.100.1 199.6.13.1 201.100.11.2	
router(config)#	ip host <i>lab_c</i> 223.8.151.1 204.204.7.1 199.6.13.2	
router(config)#	ip host <i>lab_d</i> 210.93.105.1 204.204.7.2	
router(config)#	ip host <i>lab_e</i> 210.93.105.2	
Step 3 – ROUTING		
Prompt	Command	Comment
router(config)#	router rip	
router(config-router)#	network <b>210.93.105.0</b>	
router(config-router)#	network <b>204.204.7.0</b>	
router(config-router)#	exit	
Step 4 – LINE		
Prompt	Command	Comment
router(config)#	line con 0	
router(config-line)#	login	
router(config-line)#	exec-timeout <b>480</b>	
router(config-line)#	password <i>cisco</i>	
router(config-line)#	line vty 0 4	
router(config-line)#	login	
router(config-line)#	exec-timeout <b>480</b>	
router(config-line)#	password <i>cisco</i>	
router(config-line)#	exit	
Step 5 – SAVE		
Prompt	Command	Comment
router(config)#	banner motd # <i>message#</i>	
router(config)#	service password-encryption	
router(config)#	exit	
router#	show running-config	
router#	copy running-config startup-config	
	press enter on confirm?	
router#	reload	
	press enter on confirm?	

# How to Setup a Cisco Router (Lab\_E)

Step 1 – GLOBAL - Naming and Security		
Prompt	Command	Comment
router>	enable	
router#	configure terminal	
router(config)#	hostname <i>lab_e</i>	
router(config)#	enable secret <i>class</i>	
Step 2 – INTERFACE - Addressing Interfaces and Host Naming		
Prompt	Command	Comment
router(config)#	interface fastethernet 0/0	For A Model 260X Router
	interface ethernet 0	For A Model 250X Router
router(config-if)#	ip address <b>210.93.105.2</b> 255.255.255.0	IP Number Subnet Mask
router(config-if)#	no shutdown	
router(config-if)#	exit	
router(config)#	ip host <i>lab_a</i> 192.5.5.1 205.7.5.1 201.100.11.1	
router(config)#	ip host <i>lab_b</i> 219.17.100.1 199.6.13.1 201.100.11.2	
router(config)#	ip host <i>lab_c</i> 223.8.151.1 204.204.7.1 199.6.13.2	
router(config)#	ip host <i>lab_d</i> 210.93.105.1 204.204.7.2	
router(config)#	ip host <i>lab_e</i> 210.93.105.2	
Step 3 – ROUTING		
Prompt	Command	Comment
router(config)#	router rip	
router(config-router)#	network <b>210.93.105.0</b>	
router(config-router)#	exit	
Step 4 – LINE		
Prompt	Command	Comment
router(config)#	line con 0	
router(config-line)#	login	
router(config-line)#	exec-timeout <b>480</b>	
router(config-line)#	password <i>cisco</i>	
router(config-line)#	line vty 0 4	
router(config-line)#	login	
router(config-line)#	exec-timeout <b>480</b>	
router(config-line)#	password <i>cisco</i>	
router(config-line)#	exit	
Step 5 – SAVE		
Prompt	Command	Comment
router(config)#	banner motd # <i>message#</i>	
router(config)#	service password-encryption	
router(config)#	exit	
router#	show running-config	
router#	copy running-config startup-config	
	press enter on confirm?	
router#	reload	
	press enter on confirm?	