**Task 2: Erase and Reload the Routers.**

**For Router 1**

**1. Enter privileged EXEC mode and clear the configuration.**

Router>enable

Router#

Router#erase startup-config

Erasing the nvram filesystem will remove all files! Continue? [confirm] Y [OK]

Erase of nvram: complete

Router#

**2. Reload configuration.**

Router#reload

System configuration has been modified. Save? [yes/no]: no

Proceed with reload? [confirm]

Would you like to enter the initial configuration dialog? [yes/no]: no

Would you like to terminate autoinstall? [yes]: [Press Return]

Press Enter to accept default.

Press RETURN to get started!

**For Router 2**

**1. Enter privileged EXEC mode and clear the configuration.**

Router>enable

Router#

Router#erase startup-config

Erasing the nvram filesystem will remove all files! Continue? [confirm] Y [OK]

Erase of nvram: complete

Router#

**2. Reload configuration.**

Router#reload

System configuration has been modified. Save? [yes/no]: no

Proceed with reload? [confirm]

Would you like to enter the initial configuration dialog? [yes/no]: no

Would you like to terminate autoinstall? [yes]: [Press Return]

Press Enter to accept default.

Press RETURN to get started!

**Task 3: Perform Basic Configuration of Router R1.**

**1. Enter privileged EXEC mode & enter global configuration mode.**

Router>enable

Router#

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#

**2. Configure the router name as R1 and disable DNS lookup.**

Router(config)#hostname R1

R1(config)#

R1(config)#no ip domain-lookup

R1(config)#

**3. Configure the EXEC mode password.**

R1(config)#enable secret class

R1(config)#

**4. Configure a message-of-the-day banner.**

R1(config)#banner motd &

Enter TEXT message. End with the character '&'.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**!!!AUTHORIZED ACCESS ONLY!!!**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

&

R1(config)#

**5. Configure the console password on the router and the password for the virtual terminal lines.**

R1(config)#line console 0

R1(config-line)#password cisco

R1(config-line)#login

R1(config-line)#exit

R1(config)#

R1(config)#line vty 0 4

R1(config-line)#password cisco

R1(config-line)#login

R1(config-line)#exit

R1(config)#

**6. Configure the Serial0/0/0 interface.**

R1(config-if)#interface serial 0/0/0

R1(config-if)#ip address 192.168.2.1 255.255.255.0

R1(config-if)#clock rate 64000

R1(config-if)#no shutdown

R1(config-if)#

**7. Configure the FastEthernet0/0 interface.**

R1(config)#interface fastethernet 0/0

R1(config-if)#ip address 192.168.1.1 255.255.255.0

R1(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed

state to up

R1(config-if)#

**8. Return to privileged EXEC mode.**

R1(config-if)#end

R1#

**9. Save the R1 configuration.**

R1#copy running-config startup-config

Building configuration...

[OK]

R1#

**Task 4: Perform Basic Configuration of Router R2.**

**1. Enter privileged EXEC mode & enter global configuration mode.**

Router>enable

Router#

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#

**2. Configure the router name as R2** **and disable DNS lookup.**

Router(config)#hostname R2

R2(config)#

R2(config)#no ip domain-lookup

R2(config)#

**3. Configure the EXEC mode password.**

R2(config)#enable secret class

R2(config)#

**4. Configure a message-of-the-day banner.**

R2(config)#banner motd &

Enter TEXT message. End with the character '&'.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**!!!AUTHORIZED ACCESS ONLY!!!**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

&

R2(config)#

**5. Configure the console password on the router and the password for the virtual terminal lines.**

R2(config)#line console 0

R2(config-line)#password cisco

R2(config-line)#login

R2(config-line)#exit

R2(config)#

R2(config)#line vty 0 4

R2(config-line)#password cisco

R2(config-line)#login

R2(config-line)#exit

R2(config)#

**6. Configure the Serial0/0/0 interface.**

R2(config-if)#interface serial 0/0/0

R2(config-if)#ip address 192.168.2.2 255.255.255.0

R2(config-if)#clock rate 64000

R2(config-if)#no shutdown

R2(config-if)#

**7. Configure the FastEthernet0/0 interface.**

R2(config)#interface fastethernet 0/0

R2(config-if)#ip address 192.168.3.1 255.255.255.0

R2(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed

state to up

R1(config-if)#

**8. Return to privileged EXEC mode.**

R1(config-if)#end

R1#

**9. Save the R2 configuration.**

R2#copy running-config startup-config

Building configuration...

[OK]

R1#

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Task 6: Verify and Test the Configurations**

**For R1**

R1>show ip route

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP

      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

      \* - candidate default, U - per-user static route, o - ODR

      P - periodic downloaded static route

Gateway of last resort is not set

C    192.168.1.0/24 is directly connected, FastEthernet0/0

C    192.168.2.0/24 is directly connected, Serial0/0/0

R1>show ip interface brief

Interface              IP-Address      OK? Method Status                Protocol

FastEthernet0/0        192.168.1.1     YES manual up                    up

FastEthernet0/1        unassigned      YES NVRAM  administratively down down

Serial0/0/0            192.168.2.1     YES manual up                    up

Serial0/0/1            unassigned      YES NVRAM  administratively down down

Vlan1                  unassigned      YES NVRAM  administratively down down

R1> ping 192.168.2.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 192.168.2.2, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 20/49/90 ms

**For R2**

R2>show ip route

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP

      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

      \* - candidate default, U - per-user static route, o - ODR

      P - periodic downloaded static route

Gateway of last resort is not set

C    192.168.2.0/24 is directly connected, Serial0/0/0

C    192.168.3.0/24 is directly connected, FastEthernet0/0

R2>show ip interface brief

Interface              IP-Address      OK? Method Status                Protocol

FastEthernet0/0        192.168.3.1     YES manual up                    up

FastEthernet0/1        unassigned      YES NVRAM  administratively down down

Serial0/0/0            192.168.2.2     YES manual up                    up

Serial0/0/1            unassigned      YES NVRAM  administratively down down

Vlan1                  unassigned      YES NVRAM  administratively down down

R2>ping 192.168.2.1

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 192.168.2.1, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 20/43/53 ms