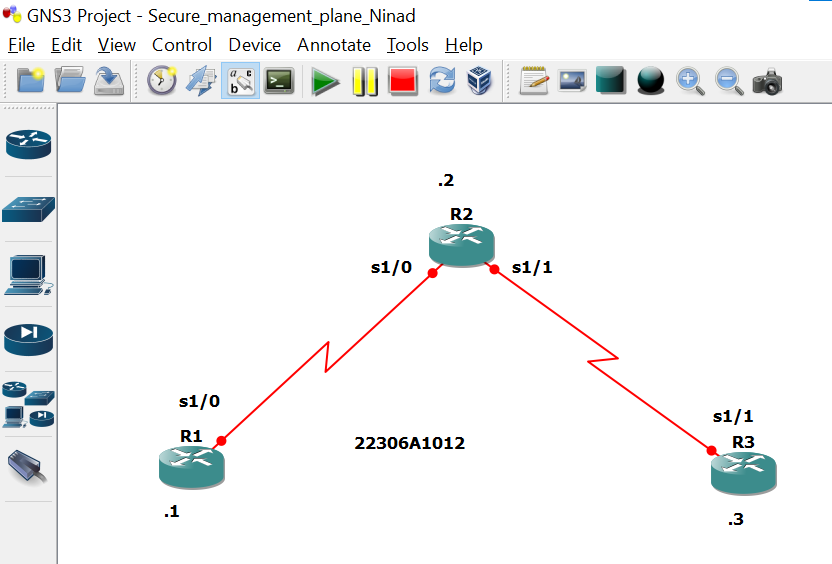
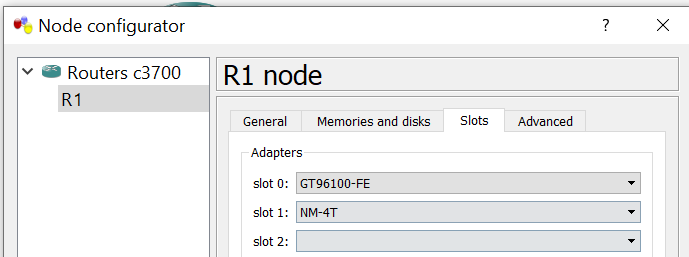
**Practical No: 4** Ninad Karlekar 22306A1012 Date: 14/03/2023

**Aim: Secure management plane.**

****

**Take 3 routers -> Configure -> slots -> NM-4T**

****

**R1 Console**

R1 #

R1 # conf t

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

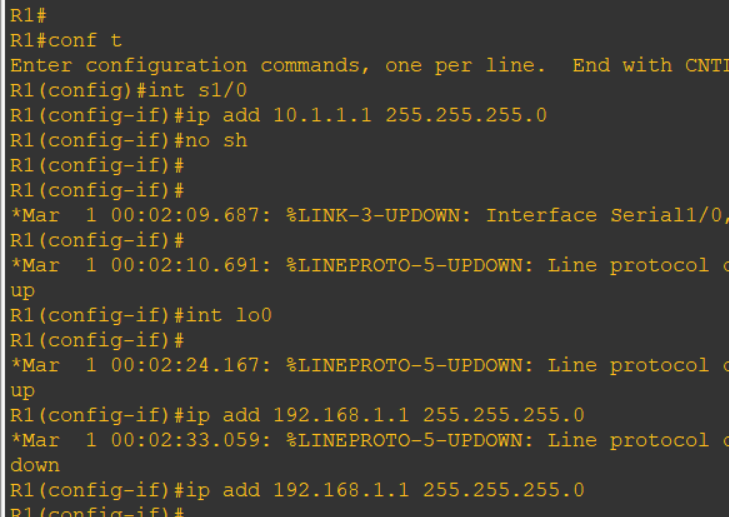
R1(config) # int s1/0

R1(config-if) # ip add 10.1.1.1 255.255.255.0

R1(config-if) # no sh

R1(config-if) # int lo0

R1(config-if) # ip add 192.168.1.1 255.255.255.0

****

**R2 Console**

R2 # conf t

R2(config) # int s1/0

R2(config-if) # ip add 10.1.1.2 255.255.255.0

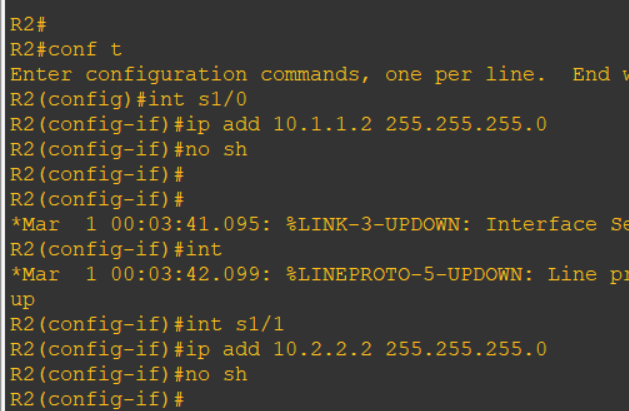
R2(config-if) # no sh

R2(config-if) # int s1/1

R2(config-if) # ip add 10.2.2.2 255.255.255.0

R2(config-if) # no sh

R2(config-if) #

****

**R3 Console**

R3 # conf t

R3(config) # int s1/1

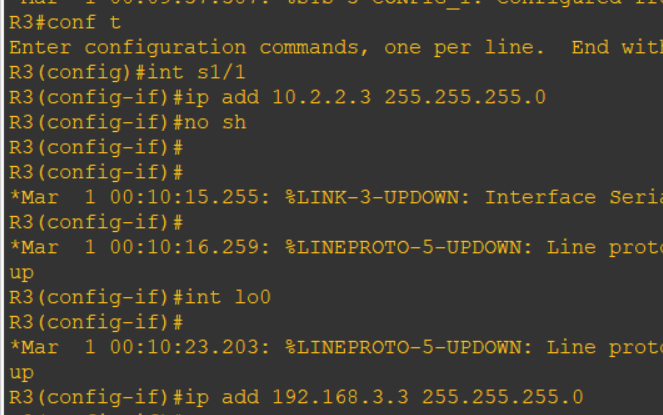
R3(config-if) # ip add 10.2.2.3 255.255.255.0

R3(config-if) # no sh

R3(config-if) #

R3(config-if) # int lo0

R3(config-if) # ip add 192.168.3.3 255.255.255.0



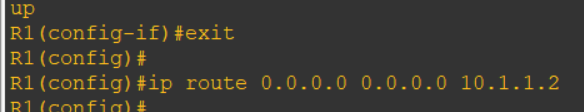
**Part 2 : Routing**

**R1 Console**

R1(config-if) # exit

R1(config) #

R1(config) # ip route 0.0.0.0 0.0.0.0 10.1.1.2



**R2 Console**

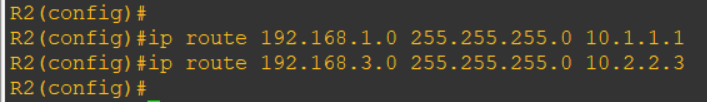
R2(config-if) # exit

R2(config) #

R2(config) # ip route 192.168.1.0 255.255.255.0 10.1.1.1

R2(config) # ip route 192.168.3.0 255.255.255.0 10.2.2.3

R2(config) #

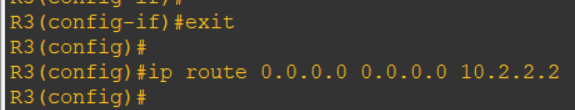
****

**R3 Console**

R3(config-if) # exit

R3(config) #

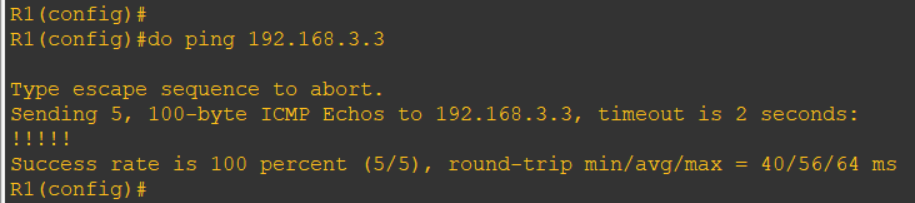
R3(config) # ip route 0.0.0.0 0.0.0.0 10.2.2.2



**Ping**

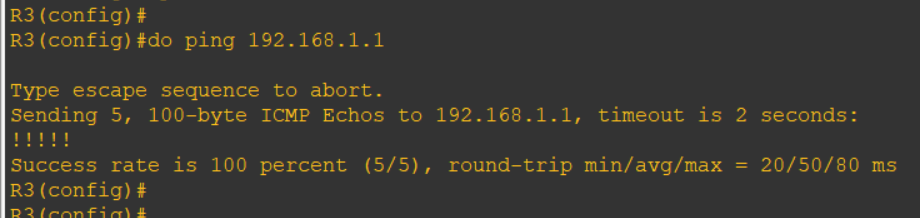
**R1 Console**

R1(config) # do ping 192.168.3.3



**R3 Console**

R3(config) # do ping 192.168.1.1



**Part 3: Security Management Access**

**R1 Console**

r1(config) # hostname r1

r1(config) # security password min-length 10

r1(config) # enable secret class12345

r1(config) #

r1(config) # line console 0

r1(config-line) # password ciscoconpass

r1(config-line) # exec-timeout 5 0

r1(config-line) # login

r1(config-line) # logging synchronous

r1(config-line) # exit

r1(config) #

r1(config) # line vty 0 4

r1(config-line) # password ciscovtypass

r1(config-line) # exec-timeout 5 0

r1(config-line) # login

r1(config-line) # exit

r1(config) #

r1(config) # line aux 0

r1(config-line) # no exec

r1(config-line) # end

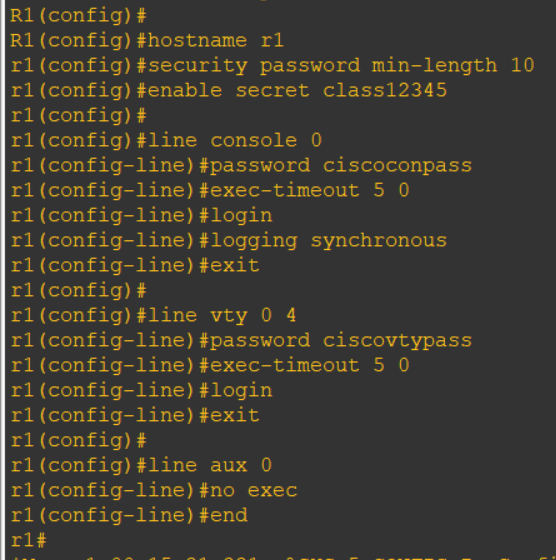
r1 # conf t

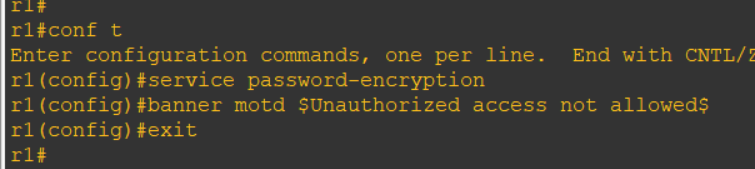
Enter configuration commands, one per line. End with CNTL/Z.

r1(config) # service password-encryption

r1(config) # banner motd $Unauthorized access not allowed$

r1(config) # exit





**R3 Console ( Same as R1)**

R3(config) # hostname r3

r3(config) # security password min-length 10

r3(config) # enable secret class12345

r3(config) # line console 0

r3(config-line) # password ciscoconpass

r3(config-line) # exec-timeout 5 0

r3(config-line) # login

r3(config-line) # logging synchronous

r3(config-line) # exit

r3(config) # line vty 0 4

r3(config-line) # password ciscovtypass

r3(config-line) #

r3(config-line) #

r3(config-line) #

r3(config-line) # exec-timeout 5 0

r3(config-line) # login

r3(config-line) # exit

r3(config) #

r3(config) # line aux 0

r3(config-line) # no exec

r3(config-line) # end

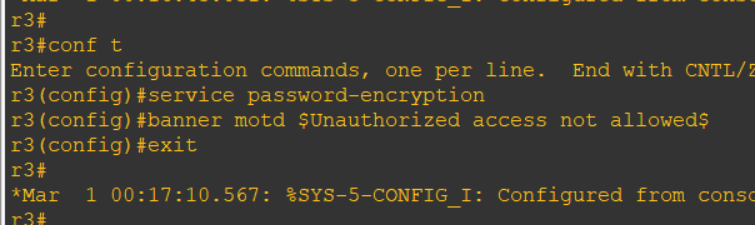
r3 #

r3 # conf t

r3(config) # service password-encryption

r3(config) # banner motd $Unauthorized access not allowed$

r3(config) # exit



**R3 Console**

r3 # telnet 10.1.1.1

(password-> ciscovtypass)

