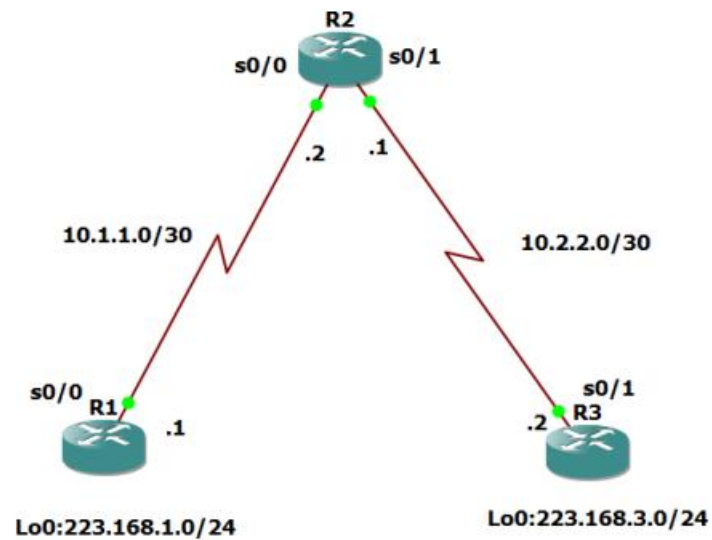Secure management plan

Objectives: Secure management access. − Configure enhanced username password security. − Enable AAA RADIUS authentication. − Enable secure remote management

Router 1

 interface Loopback 0

ip address 223.168.1.1 255.255.255.0

 exit

interface Serial0/0/0

ip address 10.1.1.1 255.255.255.252

no shutdown

exit

end

Router R2

 interface Serial0/0/0

ip address 10.1.1.2 255.255.255.252

no shutdown

 exit interface Serial0/0/1

ip address 10.2.2.1 255.255.255.252

 no shutdown

 exit

end

Router R3

 interface Loopback0

 ip address 223.168.3.1 255.255.255.0

exit

 interface Serial0/0/1

 ip address 10.2.2.2 255.255.255.252

no shutdown

 exit

end

Step 2: Configure static routes.

 R1(config)# ip route 0.0.0.0 0.0.0.0 10.1.1.2

R3(config)# ip route 0.0.0.0 0.0.0.0 10.2.2.1

R2(config)# ip route 223.168.1.0 255.255.255.0 10.1.1.1

R2(config)# ip route 223.168.3.0 255.255.255.0 10.2.2.2

foreach address { 223.168.1.1 10.1.1.1 10.1.1.2 10.2.2.1 10.2.2.2 223.168.3.1} {ping $address}

. R1(config)# security passwords min-length 10

2. Configure the enable secret encrypted password on both routers.

R1(config)# enable secret class12345.

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)# 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)# line aux 0

R1(config-line) # no exec

 R1(config-line) # end

R1(Config)# service password-encryption

. R1(config)# username Shivam secret class12345

R1(config)# username Shivam secret class5432


R1(config)# line console 0

R1(config-line) # login local

 R1(config-line) # exit

R1(config)# line vty 0 4

 R1(config-line) # login local

R1(config-line) # end
```