**Task1**

ipconfig /all

ping 10.10.1.18

tracert 10.10.1.18

tracert 10.10.1.98

show ip int brief

show ip route

config t

int s0/0/0

ip add 10.10.1.5 255.255.255.252

sh ip int brief

ping 10.10.1.18

tracert 10.10.1.18

ipv6config /all

ping 2001:DB8:1:4::2

ping 2001:DB8:1:1::2

sh ipv6 int brief

**Task2**

ipconfig /all

ping 172.16.2.3

ping 172.16.2.4

ping 172.16.1.1

ping 209.165.201.2

ping 172.16.1.4

ssh -l Admin01 172.16.1.1

R1#sh ip int brief

R1#config t

R1(config)#int g0/1

R1(config-if)#ip add 172.16.2.1 255.255.255.0

R1(config-if)#exit

R1#sh ip int brief

ping 172.16.1.1

ping 209.165.201.2

ping 172.16.1.3

ping 172.16.2.3

ping 172.16.2.4

ping 172.16.1.4

ping 172.16.2.1

ping 209.165.201.2

ping 172.16.2.4

ping 172.16.1.3

ping 172.16.1.4

ping 172.16.2.1

ping 209.165.201.2

ping 172.16.2.3

ping 172.16.1.3

**Task3**

en

R2#config t

R2(config)#ip access-list standard R2NAT

R2(config-std-nacl)#permit 192.168.10.0 0.0.0.255

R2(config-std-nacl)#permit 192.168.20.0 0.0.0.255

R2(config-std-nacl)#permit 192.168.30.0 0.0.0.255

R2(config)#ip nat pool R2POOL 209.165.202.129 209.165.202.129 netmask 255.255.255.252

R2(config)#ip nat inside source list R2NAT pool R2POOL overload

R2(config)#int s0/1/0

R2(config-if)#ip nat outside

R2(config-if)#int f0/0

R2(config-if)#ip nat inside

R2(config-if)#int s0/0/0

R2(config-if)#ip nat inside

R2(config-if)#int s0/0/1

R2(config-if)#ip nat inside

R2(config)#ip nat inside source static 192.168.20.254 209.165.202.130

R2#show ip nat translations