**Part1**

**Step1**

ipconfig /all

ipconfig /all

ping 10.10.1.18

ping 10.10.1.98

**Step2**

tracert 10.10.1.18

tracert 10.10.1.98

Password: cisco

**R1>**en

**Password:** class

**R1#**show ip interface brief

**R1#**show ip route

**Password:** cisco

**R3>**en

**Password:** class

**R3#**show ip interface brief

**R3#**show ip route

**Recorded result**

Interface IP-Address OK? Method Status Protocol

GigabitEthernet0/0 unassigned YES unset up up

GigabitEthernet0/1 10.10.1.17 YES manual up up

Serial0/0/0 unassigned YES unset administratively down down

Serial0/0/1 10.10.1.10 YES manual up up

Vlan1 unassigned YES unset administratively down down

**password:** cisco

**R2>**en

**Password:** class

**R2#**show ip interface brief

**Recorded result**

Interface IP-Address OK? Method Status Protocol

GigabitEthernet0/0 unassigned YES unset administratively down down

GigabitEthernet0/1 unassigned YES unset administratively down down

Serial0/0/0 10.10.1.2 YES manual up up

Serial0/0/1 10.10.1.9 YES manual up up

Vlan1 unassigned YES unset administratively down down

**Step4**

**R2#**config terminal

**R2(config)#**int s0/0/0

**R2(config-if)#**ip add 10.10.1.5 255.255.255.252

exit

**R2(config)#**exit

**Step5**

ping 10.10.1.18

tracert 10.10.1.18

ping 10.10.1.98

tracert 10.10.1.98

**Part2**

**Step1**

ipv6config /all

ipv6config /all

ping 2001:DB8:1:4::2

ping 2001:DB8:1:1::2

**Step2**

tracert 2001:DB8:1:4::2

tracert 2001:DB8:1:1::2

**Password:** cisco

**R3>**en

**Password:** class

**R3#**show ipv6 interface brief

**R3#**show ipv6 route

**Step5**

ping 2001:DB8:1:4::2

tracert 2001:DB8:1:4::2

ping 2001:DB8:1:1::2

tracert 2001:DB8:1:1::2