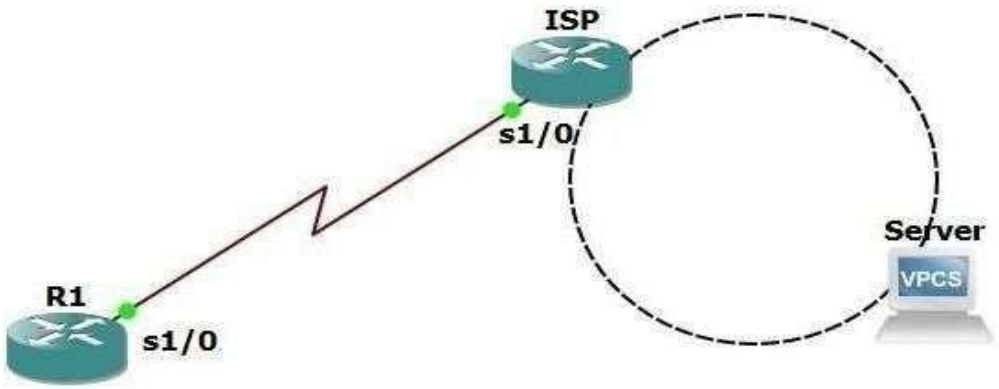
Practical No: 1

Aim: Configure IP SLA (On GNS3).



Device	Interface	IP address	Network Mask
R1	s1/0	209.165.200.9	255.255.255.252
ISP	s1/0	209.165.200.10	255.255.255.252
	Lo 0	198.133.209.1	255.255.255.255

Configure R1

R1#conf t
R1(config)#int s1/0
R1(config-if)#ip add 209.165.200.9 255.255.255.252
R1(config-if)#no shut
R1(config-if)#ip route
R1(config-if)#ip route 0.0.0.0 0.0.0.0 209.165.200.10
R1(config)#exit

Configure ISP

R2#conf t
R2(config)#hostname ISP
ISP(config)#int s1/0
ISP(config-if)#ip add 209.165.200.10 255.255.255.252
ISP(config-if)#clock rate 4032000
ISP(config-if)#exit
ISP(config)#no ip domain-lookup
ISP(config)#int loopback 0
ISP(config-if)#ip add 198.133.219.1 255.255.255.255
ISP(config-if)#no shut
ISP(config-if)#exit
ISP(config)#int s1/0
ISP(config-if)#no shut
ISP(config-if)#exit

Check connectivity on ISP server

ISP#ping 198.133.219.1

Check connectivity on R1 to ISP and server

R1#ping 209.165.200.10

Configure IP SLA on R1

R1#conf t
R1(config)#ip sla 22
R1(config-ip-sla)#icmp-echo 198.133.219.1
R1(config-ip-sla-echo)#frequency 20
R1(config-ip-sla-echo)#ip sla schedule 22 start-time now life forever
R1(config)#end

Check IP SLA configuration

R1#sh ip sla configuration

Refresh ISP

ISP # conf t
ISP # int loopack 0
ISP # shutdown
ISP # no shut

Check IP SLA statistics

R1# s hip sla statistics