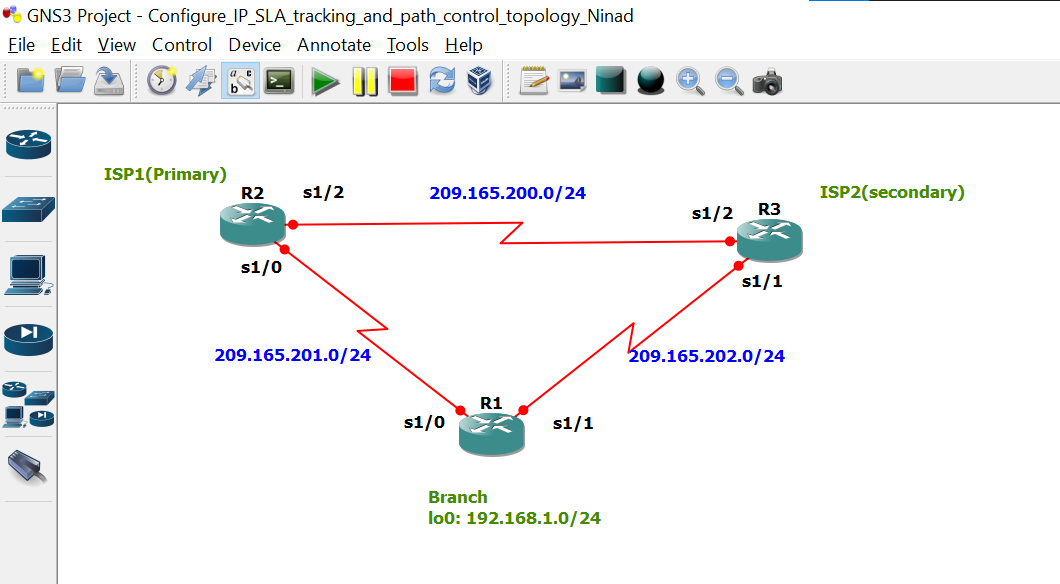
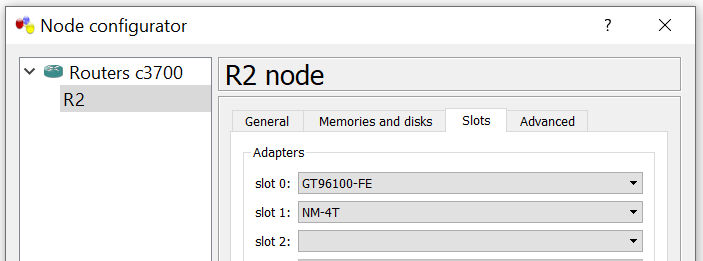
**Practical No: 1** Ninad Karlekar 22306A1012 Date: 17/04/2023

**Aim: Configure IP SLA tracking and path control topology.**



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



**Task 1: Configure IP SLA using GNS3**

**On router 1 console**

R1#

R1#conf t

R1(config)#int s1/0

R1(config-if)#ip add 209.165.201.1 255.255.255.0

R1(config-if)#no sh

R1(config-if)#

R1(config-if)#int s1/1

R1(config-if)#ip add 209.165.202.1 255.255.255.0

R1(config-if)#no sh

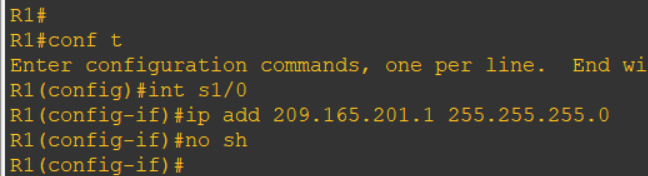
R1(config-if)#

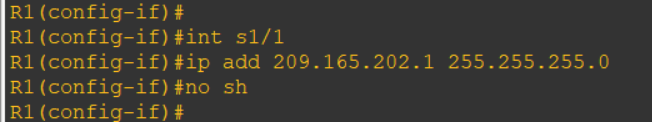
R1(config-if)#int lo0

R1(config-if)#ip add 192.168.1.1 255.255.255.0

R1(config-if)#

R1(config-if)#do sh ip int br | include up





A screenshot of a computer

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**On router 2 console**

R2#conf t

R2(config)#int s1/0

R2(config-if)#ip add 209.165.201.2 255.255.255.0

R2(config-if)#no sh

R2(config-if)#

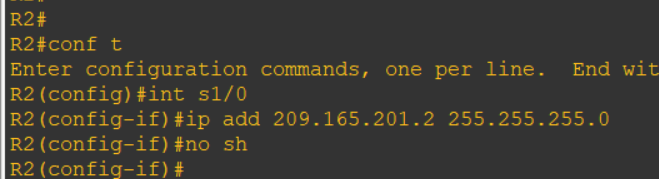
R2(config-if)#int s1/2

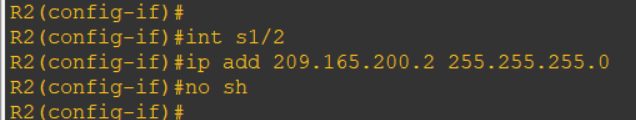
R2(config-if)#ip add 209.165.200.2 255.255.255.0

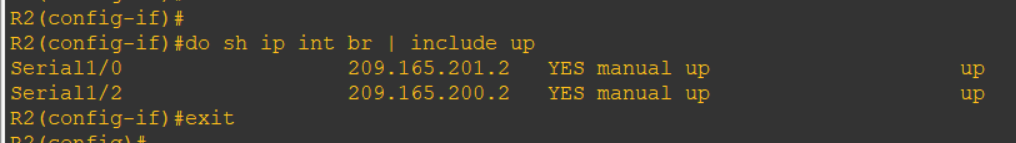
R2(config-if)#no sh

R2(config-if)#

R2(config-if)#do sh ip int br | include up







**On router 3 console**

R3#conf t

R3(config)#int s1/1

R3(config-if)#ip add 209.165.202.3 255.255.255.0

R3(config-if)#no sh

R3(config-if)#

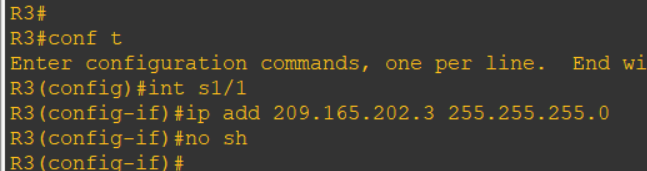
R3(config-if)#int s1/2

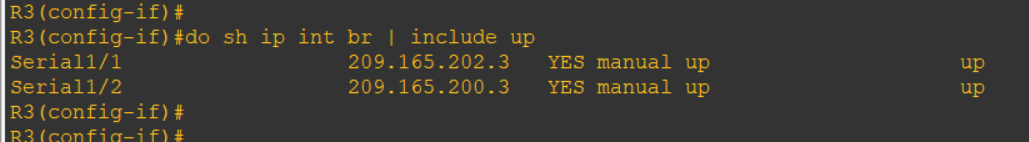
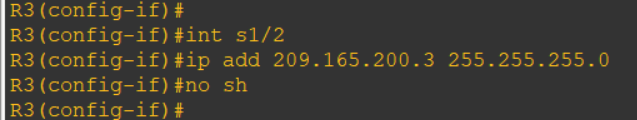
R3(config-if)#ip add 209.165.200.3 255.255.255.0

R3(config-if)#no sh

R3(config-if)#

R3(config-if)#do sh ip int br | include up





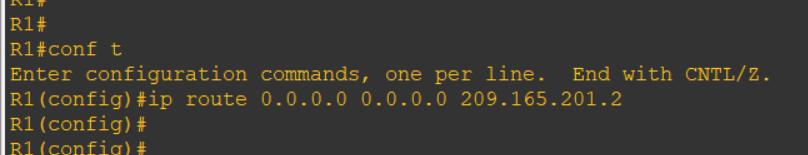
**Task 2: Configure static routing on branch router and dynamic routing using eigrp**

**On router 1 console**

R1#conf t

R1(config)#ip route 0.0.0.0 0.0.0.0 209.165.201.2

R1(config)#



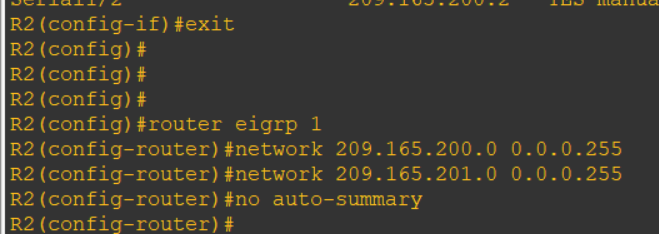
**On router 2 console**

R2(config)#router eigrp 1

R2(config-router)#network 209.165.200.0 0.0.0.255

R2(config-router)#network 209.165.201.0 0.0.0.255

R2(config-router)#no auto-summary



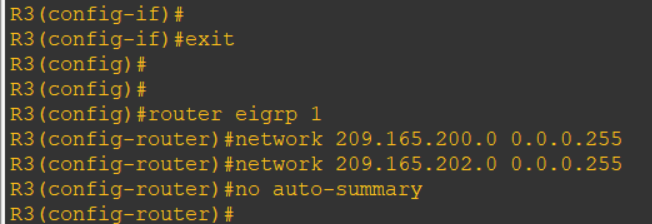
**On router 3 console**

R3(config)#router eigrp 1

R3(config-router)#network 209.165.200.0 0.0.0.255

R3(config-router)#network 209.165.202.0 0.0.0.255

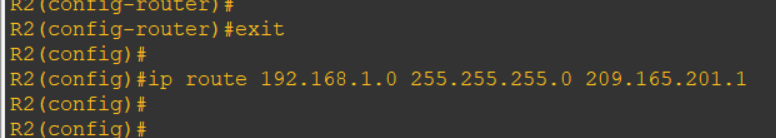
R3(config-router)#no auto-summary



**On router 2 console**

R2(config-router)#exit

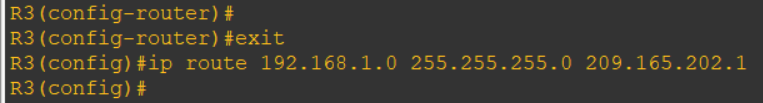
R2(config)#ip route 192.168.1.0 255.255.255.0 209.165.201.1



**On router 3 console**

R3(config-router)#exit

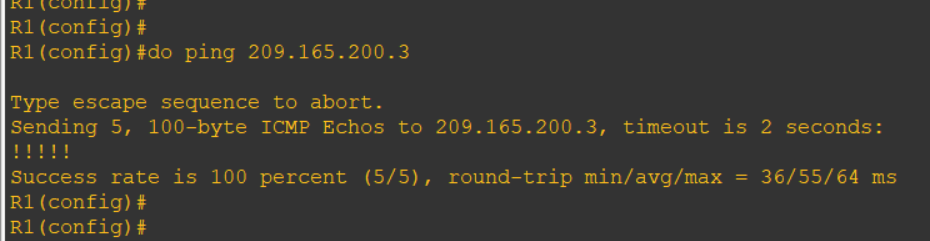
R3(config)#ip route 192.168.1.0 255.255.255.0 209.165.202.1

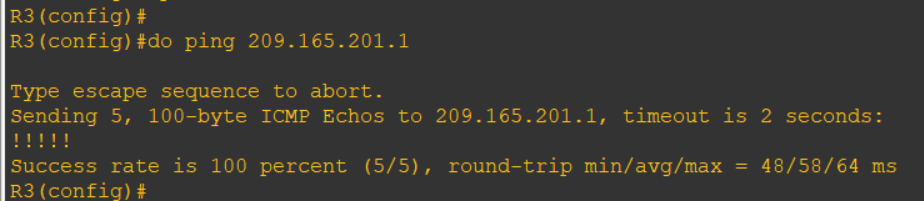


**Ping other routers**

R1(config)#do ping 209.165.200.3

R3(config)#do ping 209.165.201.1



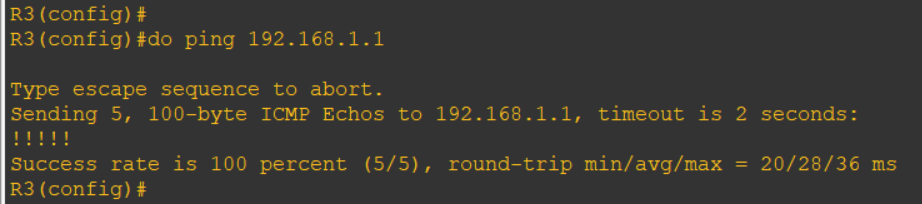


**Ping other routers**

R2(config)#do ping 192.168.1.1

R3(config)#do ping 192.168.1.1A screenshot of a computer

Description automatically generated with low confidence



**Give hostname**

R1(config)#hostname r1-branch

R2(config)#hostname r2-isp1

R3(config)#hostname r3-isp2

**Task 3: Configure IP SLA probes at branch router**

**On router 1 console**

r1-branch(config)#ip sla 11

r1-branch(config-ip-sla)#icmp-echo 209.165.201.2

r1-branch(config-ip-sla-echo)#frequency 10

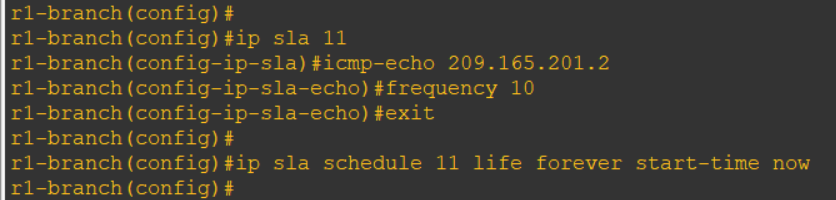
r1-branch(config-ip-sla-echo)#exit

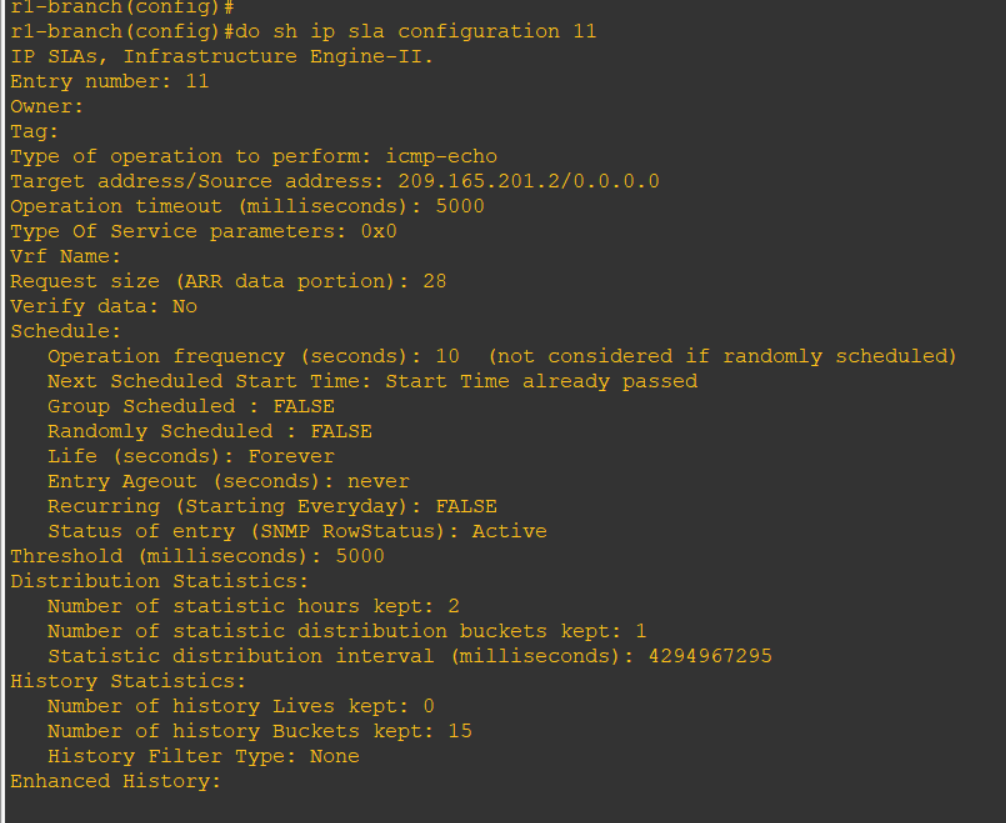
r1-branch(config)#

r1-branch(config)#ip sla schedule 11 life forever start-time now

r1-branch(config)#

r1-branch(config)#do sh ip sla configuration 11



A screenshot of a computer

Description automatically generated