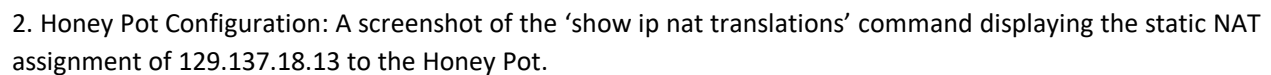


# Network Address Translation Lab 1

1. EIGRP Configuration: Display the configuration of the routing tables using EIGRP. Submit a screenshot of the results of the 'show ip route' command from one of the routers.



Physical
Config
**CLI**
Attributes

IOS Command Line Interface

```

USUAL-3-MBRCHANGE: IP-Ether 1: Neighbor 129.137.18.1 (Serial2/0) is up: new adjacency
Router(config-router)#exit
Router(config)#exit
Router#
VTY>=CONFID_1: Configured from console by console

Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial2/0
Router(config-if)#ip nat outside
Router(config-if)#exit
Router(config)#int fast0
Router(config-if)#ip nat inside
Router(config-if)#ip nat inside source static 172.16.53.253 129.137.18.13
Router(config)#
Router(config)#
Router(config)#hostname Router1
Router1(config)#
Router1(config)#

Router1 con0 is now available

Press RETURN to get started.

Router1#enable
Router1#
Router1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router1(config)#interface FastEthernet0/0
Router1(config-if)#
Router1(config-if)#exit
Router1(config)#interface FastEthernet0/0
Router1(config-if)#ip address 172.16.53.1 255.255.0.0
Router1(config-if)#ip nat address 172.16.53.1 255.255.0.0
Router1(config-if)#
Router1(config-if)#exit
Router1(config)#exit
Router1#
VTY>=CONFID_1: Configured from console by console

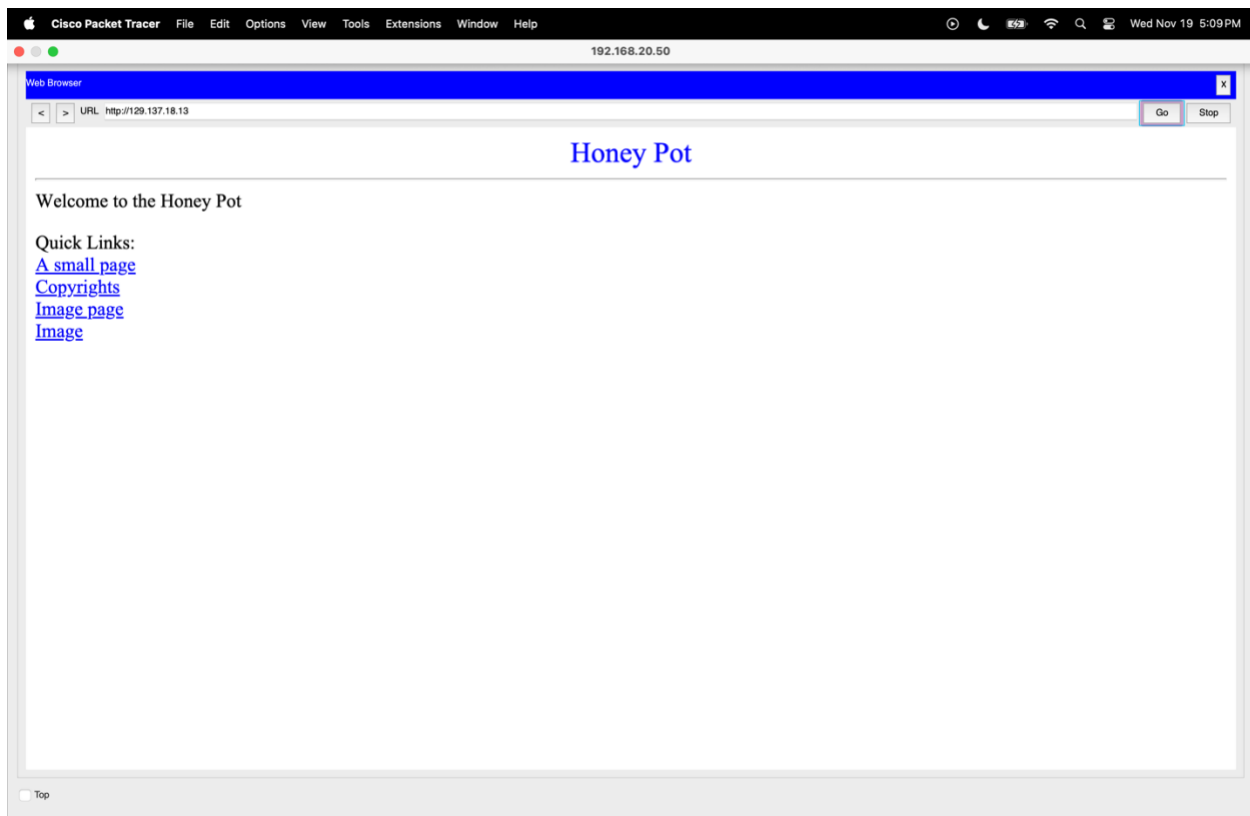
Router1#show ip nat translations
Pro Inside global      Inside local      Outside local      Outside global
-- 129.137.18.13        172.16.53.253      ---               ---
Router1#show ip nat translations
Pro Inside global      Inside local      Outside local      Outside global
-- 129.137.18.13        172.16.53.253      ---               ---
tcp 129.137.18.13:80    172.16.53.253:80    129.137.18.2:1025  129.137.18.2:1025
Router1#

```

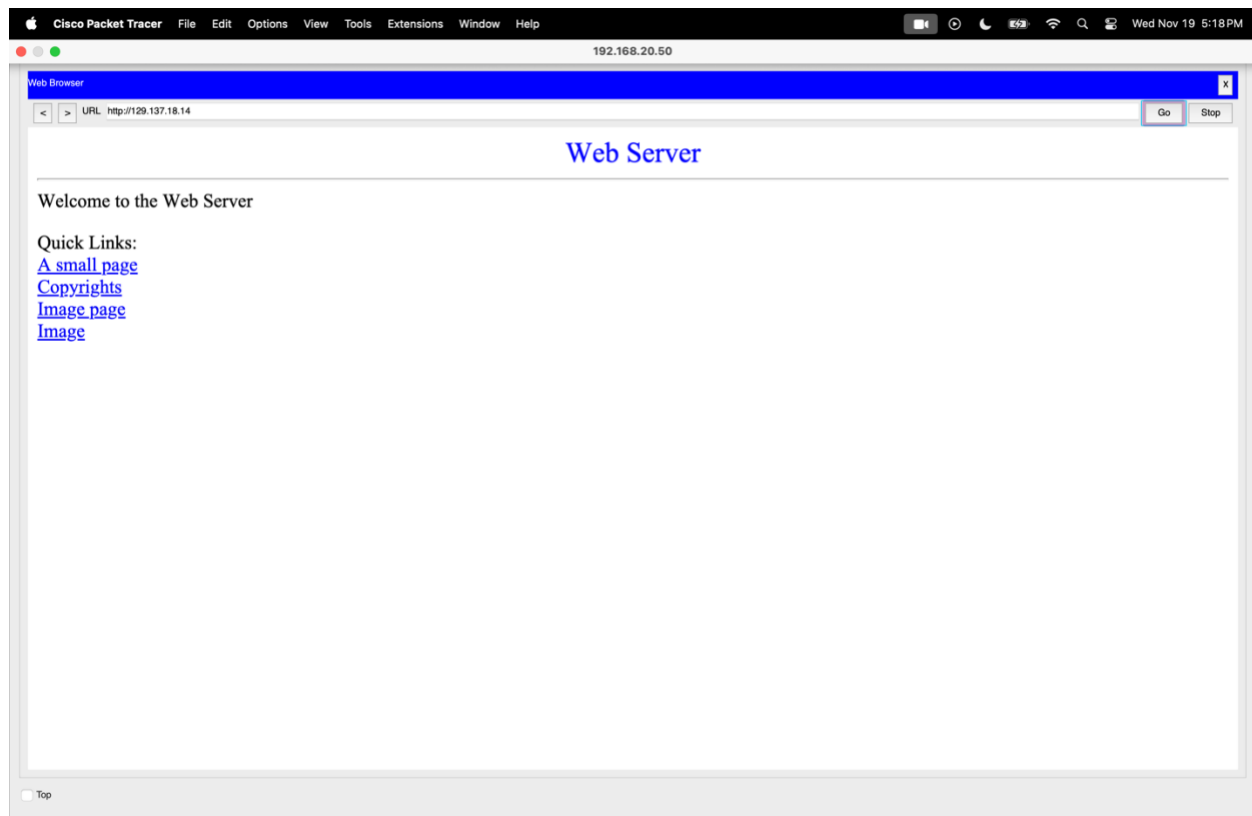
Copy Paste

☐ Top

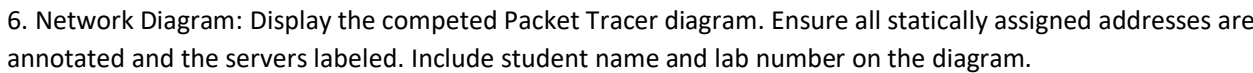
3. NAT Pool: Configure dynamic NAT using address pool 129.137.18.2 thru 129.137.18.12 with overload on the 192.168.20.0/24 network. Open a web browser on the PC at the remote site to 129.137.18.13 and submit a screenshot of the web site.



4. Port Forwarding: Configure port forwarding from the web server at 129.137.18.14 on port 80 to 172.16.53.254 on port 80. Test connectivity by opening a web browser on the PC at the remote site using the 129.137.18.14 IP address. Submit a screenshot of the web site.



5. PAT Configuration: Configure Port Address Translation from the 172.16.53.0/16 network to interface se2/0. Add a second PC on the Remote Site with IP address 192.168.20.150. Ping from 192.168.20.150 to the PC at the Main Campus (Request times out.) Issue a 'show ip nat translations' command to verify the address and port translations that includes the newly added PC.



6. Network Diagram: Display the completed Packet Tracer diagram. Ensure all statically assigned addresses are annotated and the servers labeled. Include student name and lab number on the diagram.

