

Name:

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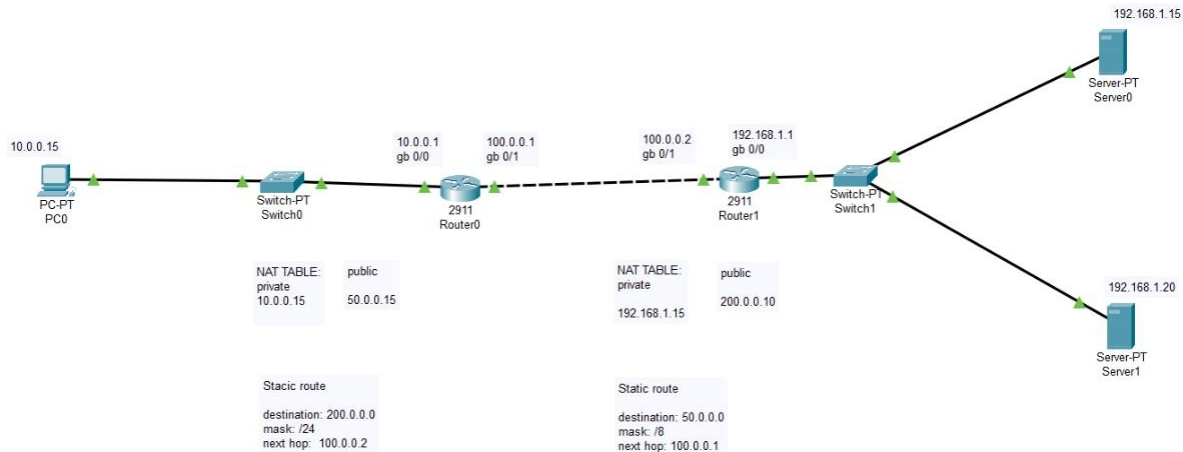
Lab:

12

Computer Network Lab

FAST-NUCES Peshawar Campus

Step 1:



Explanation:

- In the above topology I selected 1 pc, two switches, two routers, and two servers of 2900 series.
- ➤ Connected them with the straight copper wire.
- ➤ From pc to router 0 in the inner part and from router 1 to servers is the outer part.
- ➤ Server 0 is the flex server and Server 1 is for the slate.
- ➤ Assigned all of the devices respective labeled IP addresses.
- ➤ The NAT Table tells us about the private and public IP addresses of source and destination.
- ➤ And static route is the route from source to destination.
- ➤ Set two Hogs.

Step 2:

Press RETURN to get started!

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#ip nat inside source static 10.0.0.15 50.0.0.15
Router(config)#interface GigabitEthernet 0/0
                                     ^
% Invalid input detected at '^' marker.

Router(config)#interface GigabitEthernet 0/0
Router(config-if)#ip nat inside
Router(config-if)#exit
Router(config)#interface GigabitEthernet 0/1
Router(config-if)#ip nat outside
Router(config-if)#exit
Router(config)#
```

Explanation:

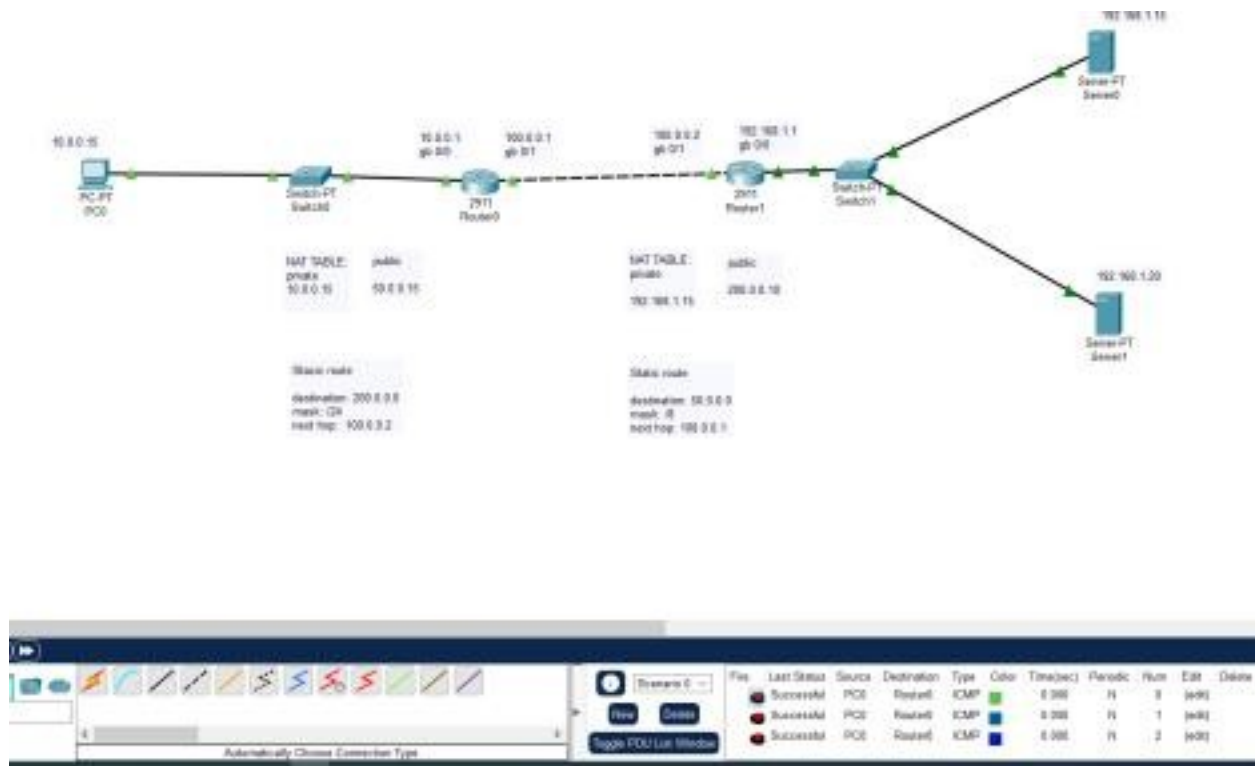
- ➤ Then I go to the router 0 C-L-I and configure the terminal.
- ➤ Set the interface Gigabit-Ethernet 0/0 as inside network.
- ➤ And set the interface Gigabit-Ethernet 0/1 as outside network.

- And similar for the Router 1.

```
Router(config)#ip nat inside source static 192.168.1.1 200.0.0.10
Router(config)#interface FastEthernet 0/1
%Invalid interface type and number
Router(config)#
Router(config)#
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip nat outside
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#ip nat inside
Router(config-if)#exit
Router(config)#ip route 50.0.0.0 255.0.0.0 100.0.0.1
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

- - Set the IP route to the given routers.
 - And exit the C-L-I.

Step 3:



- In step 3 just I just sent the packet from source to destination.
- That is from PC to servers.