



NATIONAL UNIVERSITY
of Computer & Emerging Sciences

Name: Usama Yousuf Khan

Sec: 5A

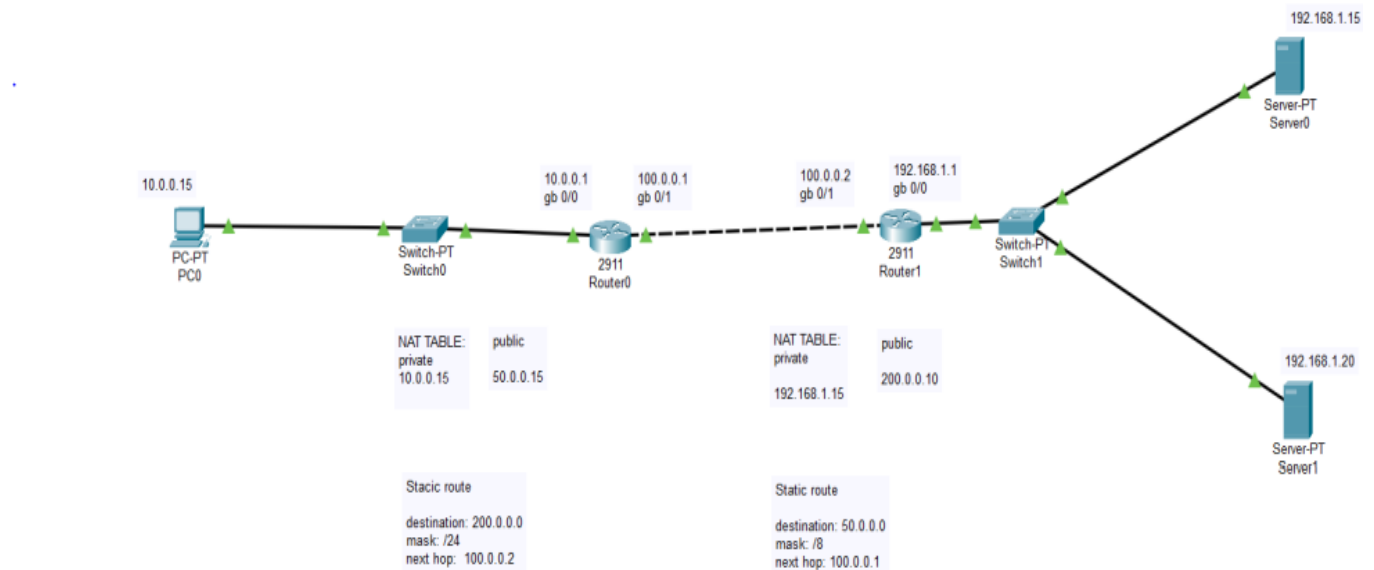
Roll no 20P-0646

Course: Computer Network LAB

LAB 12 TASKS

Submitted to Miss Hurmat Hidayat

Implementation of S-NAT for web server of (flex and slate) in a single topology.



Description:

- 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.
- Static route is the route from source to destination.
- Set two Hogs.

```
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)#
```

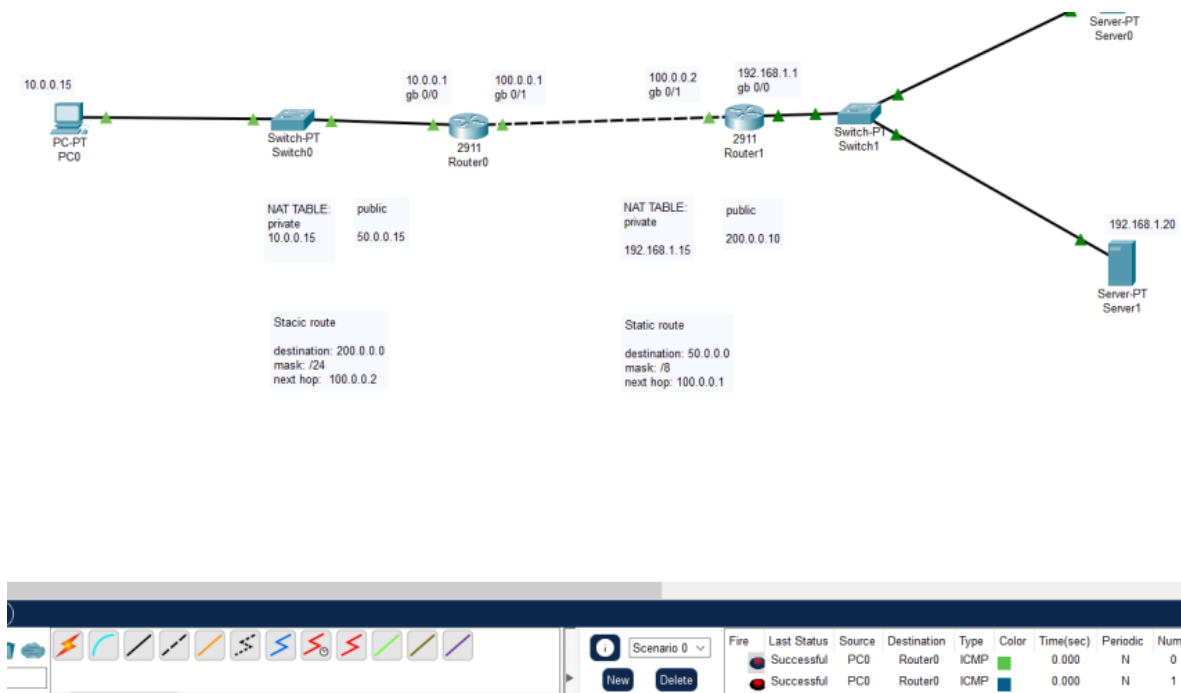
Explanation:

- Then I go to the router 0 CLI and configure the terminal.
- Set the interface GigabitEthernet 0/0 as inside network.
- And set the interface GigabitEthernet 0/1 as outside network.

```
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
```

Description:

Set the IP route and exit the Cli.



Description:

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