CSE3052 - INFORMATION SECURITY MANAGEMENT DIGITAL ASSIGNMENT-3 ALOKAM NIKHITHA 19BCE2555

Experiment-5

TITLE:

Network Address Translator

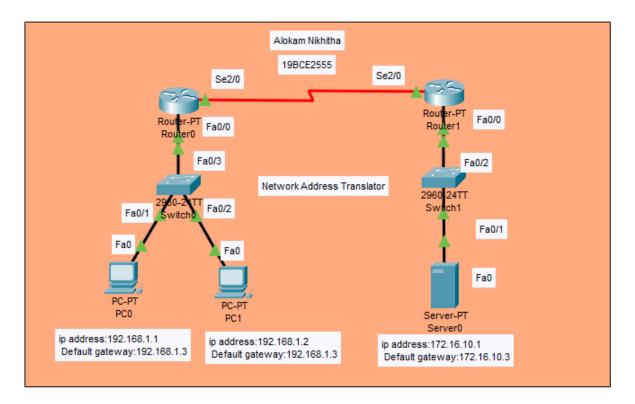
AIM:

To create a Network Address Translator

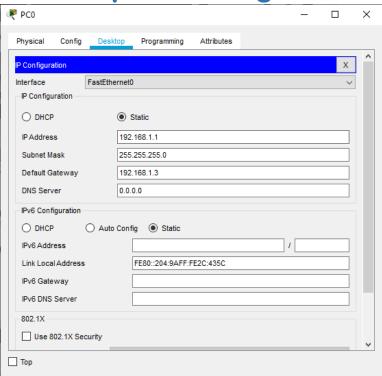
PROCEDURE:

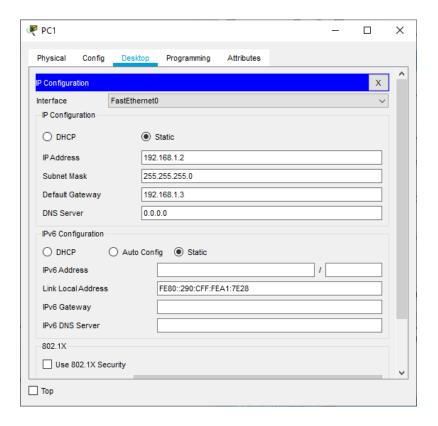
19BCF2555 Alokam Nikhitha Praedure: -> Select 2 Routers 2 Switches , 2PC-ports and I server -> connect the two pouters using se 40 cabe -> Connect both the voluters to one of the different switches using fast ethernet cables. -> connect both the ports of first switch using fast ethernet cable. -> Connect the severe second swith to our server. -> In post Interface, make the default galterary as 192.168-1-3 and to first port, assign IP of 192.168.1.1 to PCO and IP of 192.168.1.2 to PCI -> In server configuration, assign IP address of 172.16.10.1 default gatacony of 172.16.10.2 and subnet mask HO 255-255-0:0 -) In RouterOs CUI, most IP address to 19201680103 and subnet mask to 255.255.255.0 -> Similarly to Router, IP add to 172-16-10-2 x subnet 255-255-0-0

TOPOLOGY

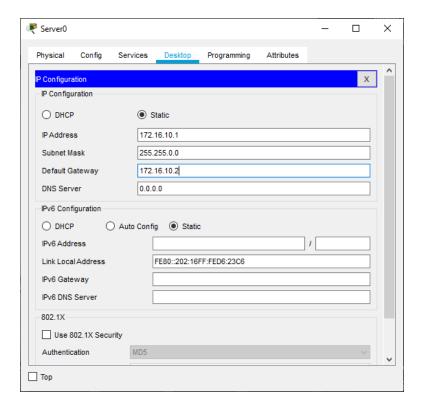


PC/ Computer Configuration:





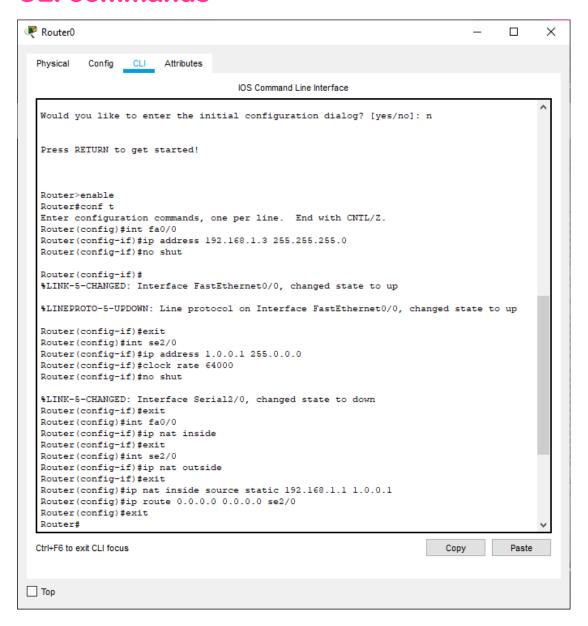
Server Configuration:



Router Configuration:

Router 0

CLI commands



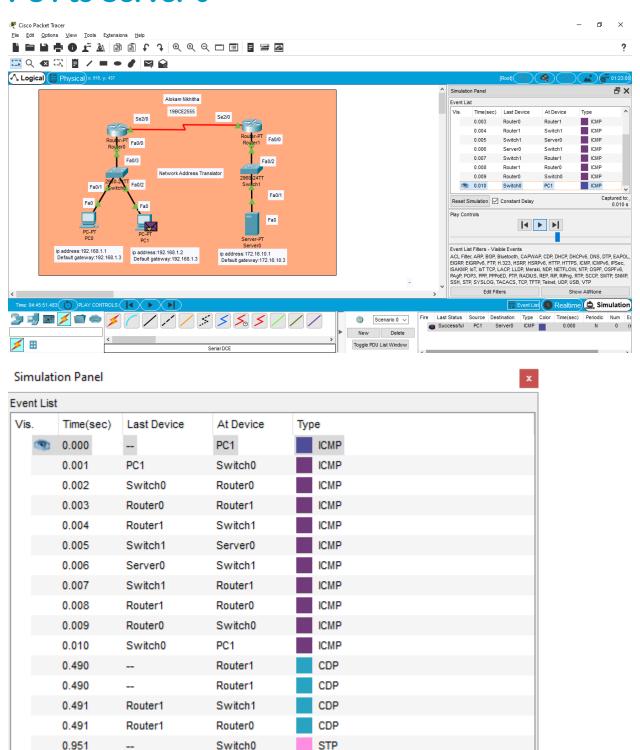
```
IOS Command Line Interface
Router(config) #int fa0/0
Router(config-if) #ip nat inside
Router(config-if) #exit
Router(config)#int se2/0
Router(config-if) #ip nat outside
Router(config-if) #exit
Router(config) #ip nat inside source static 192.168.1.1 1.0.0.1
Router(config) #ip route 0.0.0.0 0.0.0.0 se2/0
Router(config) #exit
%SYS-5-CONFIG_I: Configured from console by console
Enter configuration commands, one per line. End with CNTL/Z. Router(config) #ip nat inside source static 192.168.1.2 1.0.0.1
Router(config) #ip route 0.0.0.0 0.0.0.0 se2/0
Router(config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
Router#show ip nat tr
Pro Inside global
                          Inside local
                                               Outside local
                                                                     Outside global
Router#
Ctrl+F6 to exit CLI focus
                                                                                 Сору
                                                                                              Paste
```

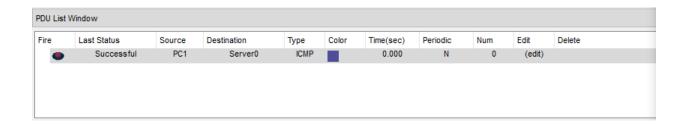
Router 1:



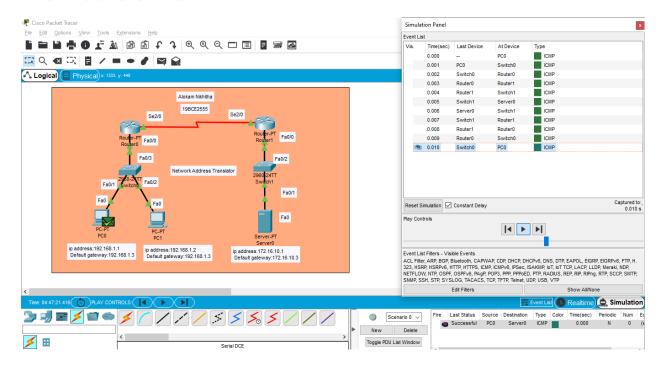
Results

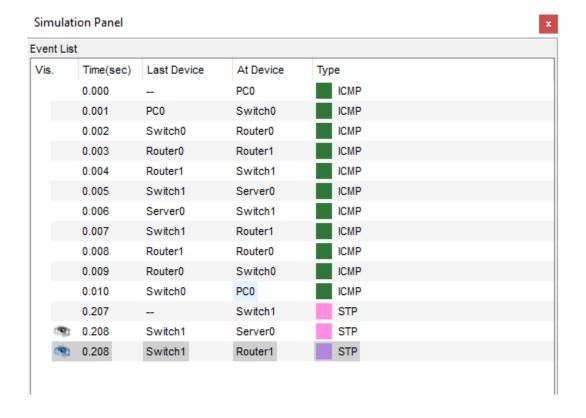
PC1 to Server 0





PC0 to Server 0







Conclusion

Here we can see that the message passed from PC0 to Server0 and PC1 to Server0 successfully with the global address instead of showing the right address.

Experiment-6

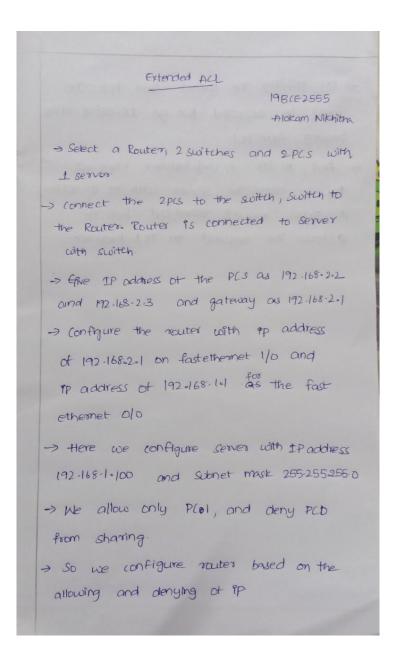
TITLE:

Extended ACL refer the syntax with beyond 100

AIM:

To create an Extended ACL refer the syntax with beyond 100

PROCEDURE:



→ on passing the packet from PCO : It

won't be successful. But get soccessful while

passing from PCI.

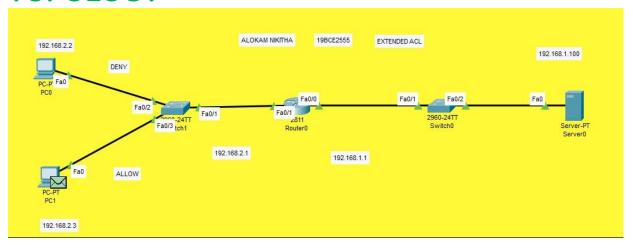
→ And in PCO in web browser. When we

try to access the server with its ip address

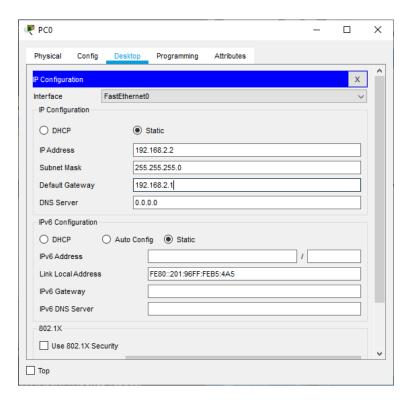
it shows request timed out but it

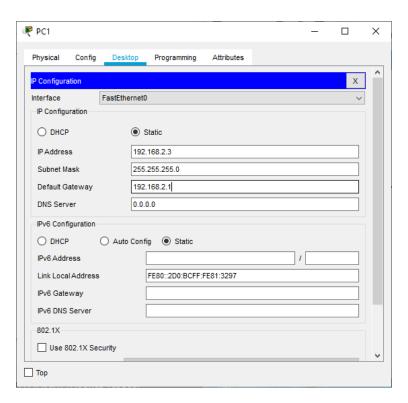
ø shows the request in PCI. browser.

TOPOLOGY

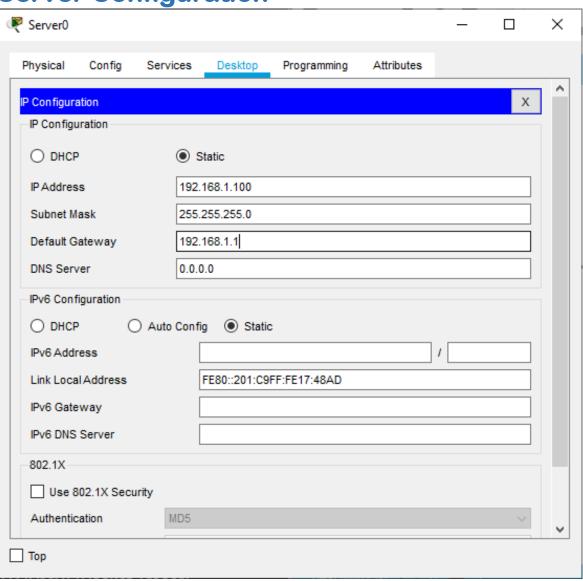


PC/ Computer Configuration:



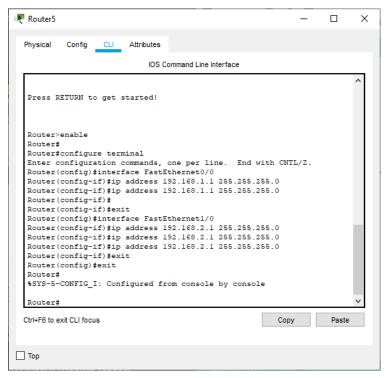


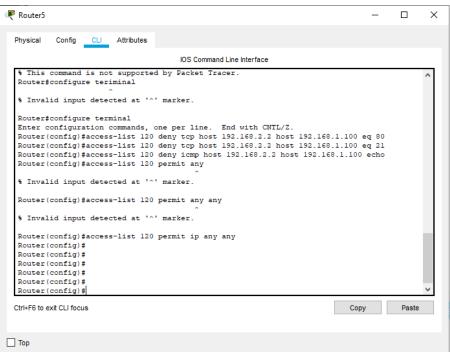
Server Configuration

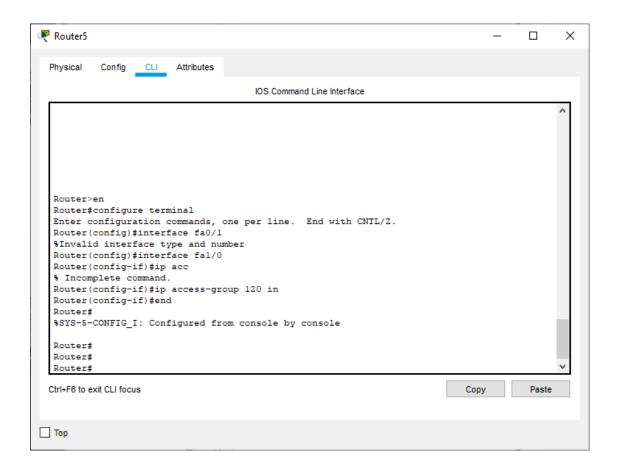


Router Configuration:

Router

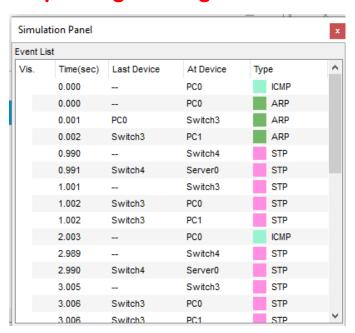


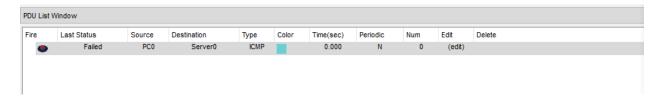




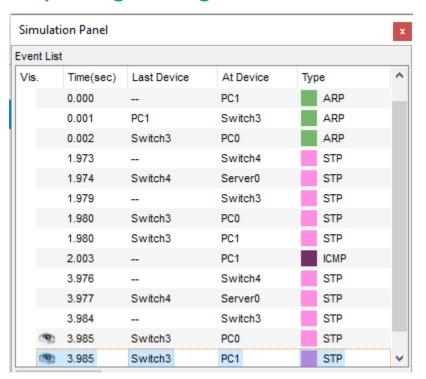
Results

On passing message from PC0 TO SERVER



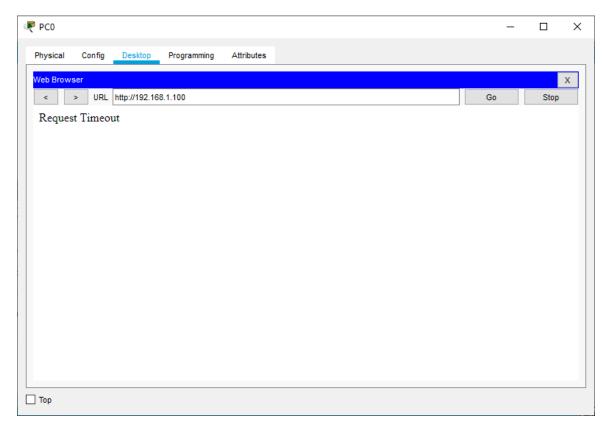


On passing message from PC1 to Server

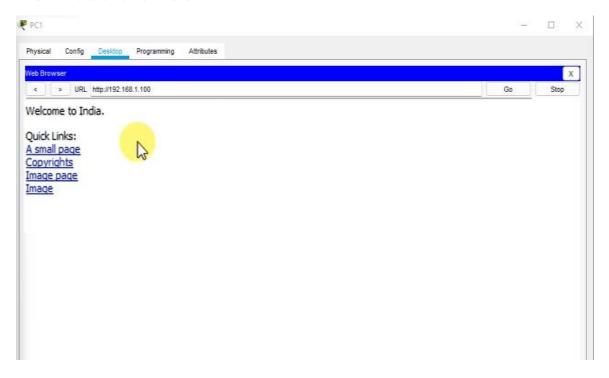




PC0 Web browser



PC1 Web browser



PC0 Command Prompt

```
Physical Config Desktop Programming Attributes

Command Prompt

X

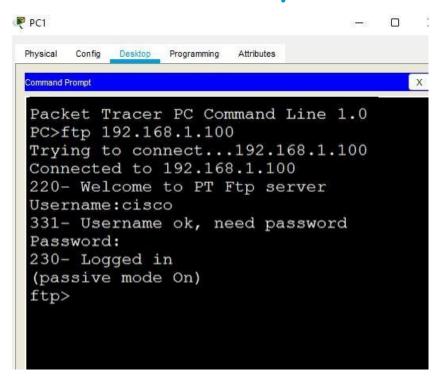
Packet Tracer PC Command Line 1.0
PC>ftp 192.168.1.100
Trying to connect...192.168.1.100

Error opening ftp://192.168.1.100/ (Timed out)
.

Packet Tracer PC Command Line 1.0
PC>(Disconnecting from ftp server)

Packet Tracer PC Command Line 1.0
PC>
```

PC1 Command Prompt



Conclusion

Here we can see that we have permitted PC1 and denied PC0. The message passed from PC0 to server is failed and PC1 to server is successful and we can see that the PC0 web browser shows timeout whereas PC1 web browser shows the request. We have allowed icmp and http on PC0.