

LAB ASSESSMENT-4

SLOT: L49-L50

CSE 3502: INFORMATION SECURITY MANAGEMENT

Submitted By: Submitted to:

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19BCE2484

Experiment: Implementing Dynamic NAT and view NAT translations

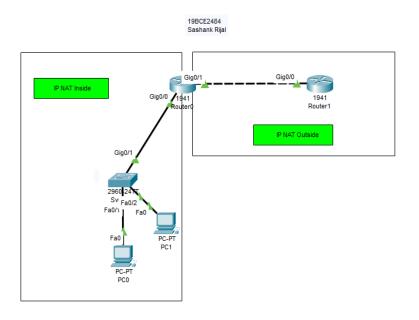
2	Sashank Rijar
	Lab Assessment - 4
, ,	Experiment: Implement Dynamic NAT
	Aim'.
	The aim of the experiment is to configure and Implement Dynamic Network Address Translation (1957)
<u> </u>	Procedure:
	Add two rowers, Ope subject and two PCs for Dynamic NAT Configuration and Connect all devices
	Configure TCP/IP configuration of the PCs and assign IP addresses to the interface of the rowers as follows and and addresses.
	PCO: Tpaddress: 192.168.10.10 Cateway: 192.168.10.1
~~	PC1: Fpaddress: 192-168.10.20 Crafeway: 192-168.10.1
	Now Configure Dynamic NAT on Rover ROCTI by Executing a new NAT ROOI and defining access- list and lucar network to this pool as Shawn:
	Router#7 Conf + Router (config) # interface gigabitethemet 0/0



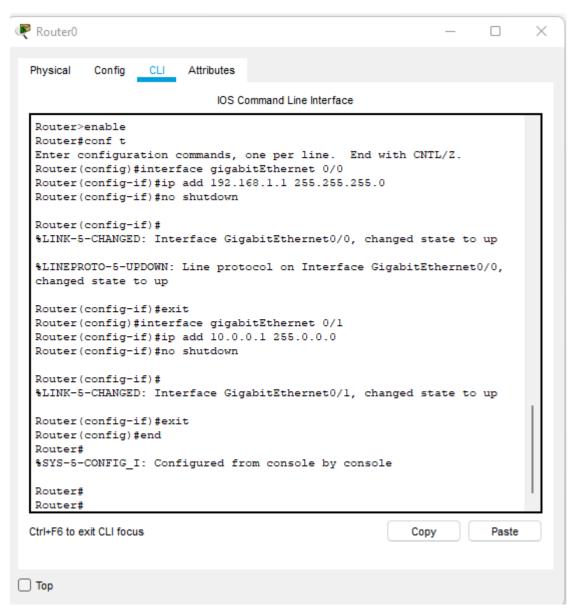
	Routes (Config-if) # ip address 192.168.10.1 755.255.755.0
	Router (configury)# ip nut inside
	Router (anlig-if) # no Shuldown
	nover (config-if) # exit
	Rover (config-if) # interface gigabitestremet 0/1
	Router (configuil)# ipaddress 10.0.0.1 255.00.0
	Rover Clongig-if)# ip not arrive
	Router (config -if) # no shirter
	Rober (contra -il) # conit
	Apoller (config) # ip not pool DYNAMICNAT 10.0.0.5
	10.0.0.10 netmask 255.0.0.0
	Rover (config) # ip access-list 1 permit 192.168.10.0
	0.0.0.255
	Rower (config)# ip not inside sourcelist pool DYNAMIC
	ROVER CONTROL HERA
	Rover (config) # end
	11000017
(vi	After Configuring Dynamic NAT, test the Connation
,	fran PCO /PCI to Router 1 serial interface 10.0.0.2,
	the process will be sucessful.
<u>v)</u>	On Router O, we can examine the NAT records after
	pinging by executing the show it not translations
	Command.
vi)	15 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	As, Seen in my lab report, the 192.168.10.20 IP
	address has been translated into the global
	10.0.0.5 Iladdress in the NAT pool.

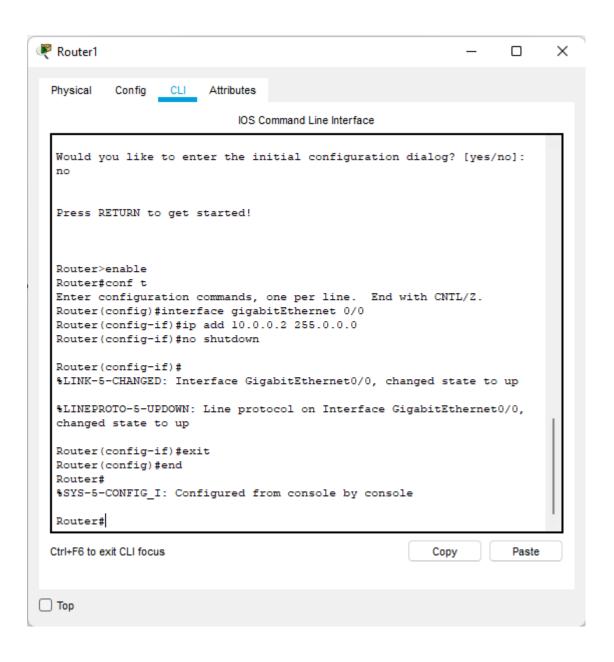
Network Design:



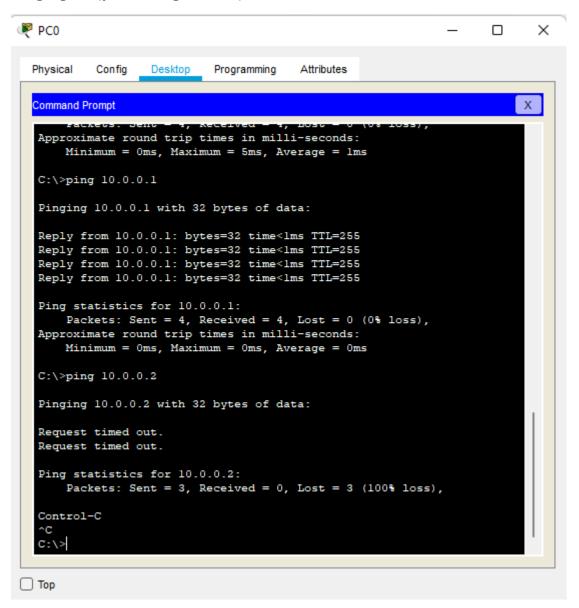


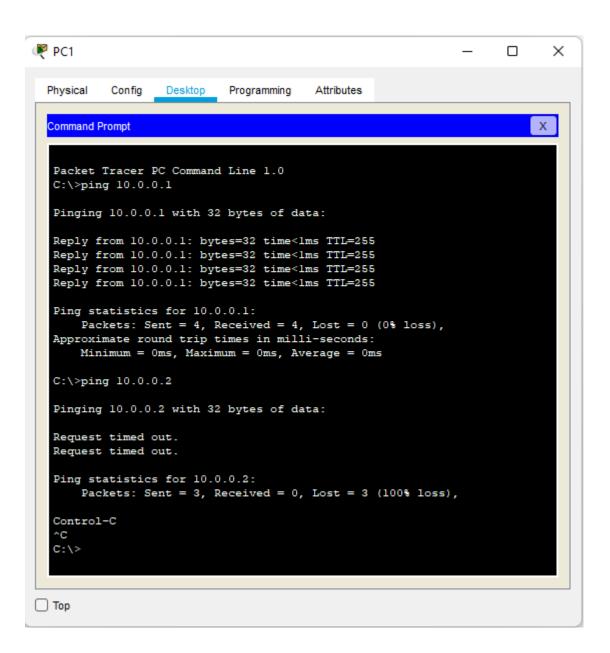
Configuring router:



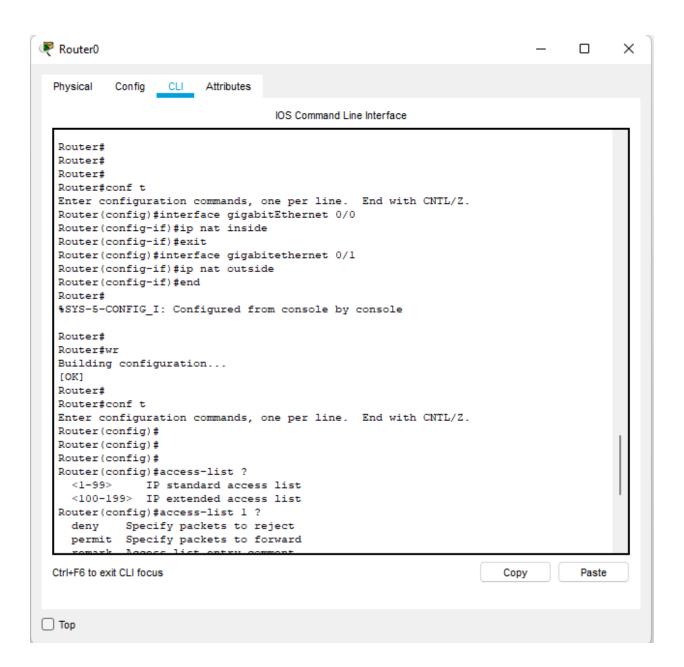


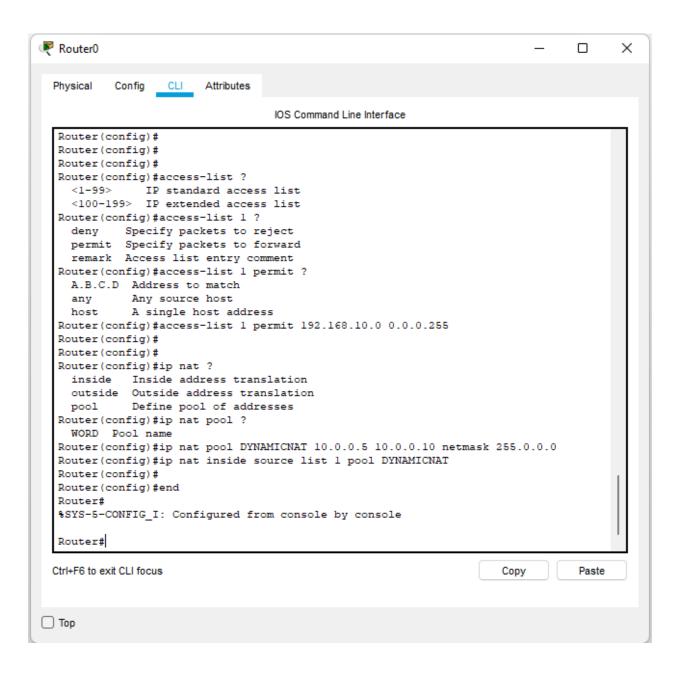
Pinging PC (pre-configuration):





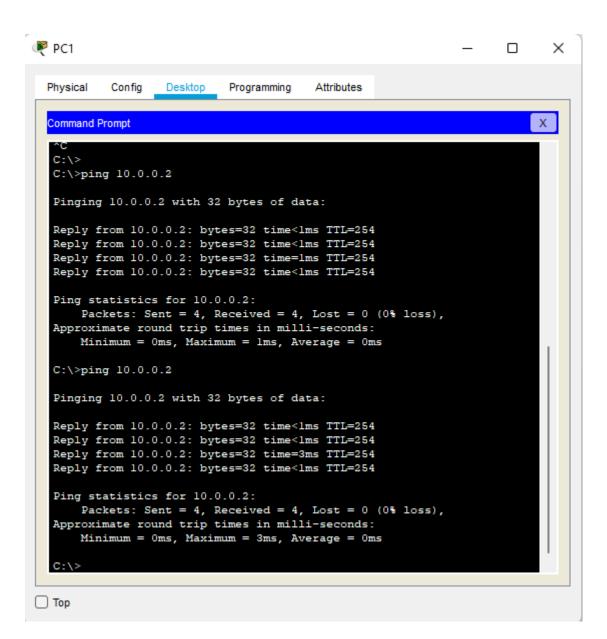
Configuration of Dynamic NAT:



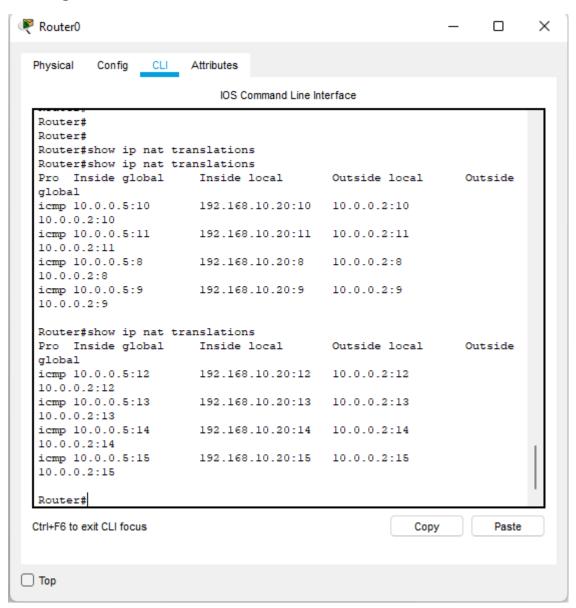


Pinging PC (Post – configuration):

```
₹ PC0
                                                                           ×
                                                                    Physical
           Config
                   Desktop
                            Programming
                                         Attributes
                                                                        Х
  Command Prompt
  Control-C
  C:\>
  C:\>
  C:\>
  C:\>
  C:\>
  C:\>ping 10.0.0.2
  Pinging 10.0.0.2 with 32 bytes of data:
  Request timed out.
  Reply from 10.0.0.2: bytes=32 time<1ms TTL=254
  Reply from 10.0.0.2: bytes=32 time<1ms TTL=254
  Reply from 10.0.0.2: bytes=32 time<1ms TTL=254
  Ping statistics for 10.0.0.2:
       Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
  Approximate round trip times in milli-seconds:
       Minimum = 0ms, Maximum = 0ms, Average = 0ms
  C:\>
  C:\>
  C:\>
  C:\>
  C:\>
  C:\>
  C:\>
  C:\>
  C:\>
  C:\>
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```



Viewing NAT translations in CLI:



Conclusion:

Therefore, Dynamic NAT was successfully implemented in cisco packet tracer where NAT translations are shown.