

Packet Tracer - Configure Dynamic NAT

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Objectives

Part 1: Configure Dynamic NAT

Part 2: Verify NAT Implementation

Instructions

Part 1: Configure Dynamic NAT

Step 1: Configure traffic that will be permitted.

On **R2**, configure one statement for ACL 1 to permit any address belonging to the 172.16.0.0/16 network.

Step 2: Configure a pool of address for NAT.

Configure **R2** with a NAT pool that uses two addresses in the 209.165.200.228/30 address space.

Notice in the topology there are 3 network addresses that would be translated based on the ACL created.

What will happen if more than 2 devices attempt to access the internet?

R: The first and second devices will access to internet and the third devices not.

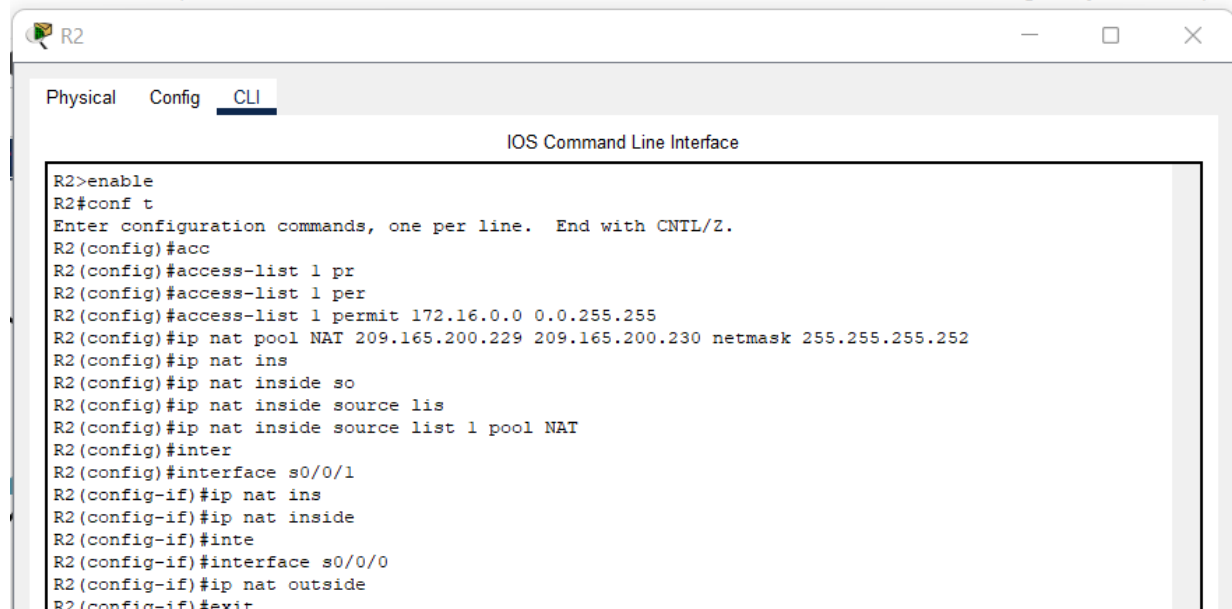
Step 3: Associate ACL 1 with the NAT pool.

Enter the command that associates ACL 1 with the NAT pool that you just created.

Step 4: Configure the NAT interfaces.

Configure **R2** interfaces with the appropriate inside and outside NAT commands.

Packet Tracer - C:/Users/Enrique_P/Documents/Universidad/Redes 2/bimestre2/semana7/6.5.6/6.5.6 Packet Tracer - Configure Dynamic NAT.pka

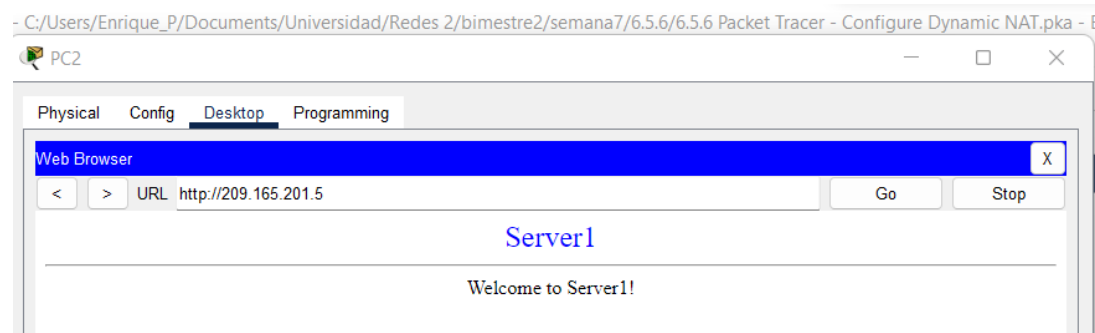


```
R2>enable
R2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#acc
R2(config)#access-list 1 pr
R2(config)#access-list 1 per
R2(config)#access-list 1 permit 172.16.0.0 0.0.255.255
R2(config)#ip nat pool NAT 209.165.200.229 209.165.200.230 netmask 255.255.255.252
R2(config)#ip nat ins
R2(config)#ip nat inside so
R2(config)#ip nat inside source lis
R2(config)#ip nat inside source list 1 pool NAT
R2(config)#inter
R2(config)#interface s0/0/1
R2(config-if)#ip nat ins
R2(config-if)#ip nat inside
R2(config-if)#inte
R2(config-if)#interface s0/0/0
R2(config-if)#ip nat outside
R2(config-if)#exit
```

Part 2: Verify NAT Implementation

Step 1: Access services across the internet.

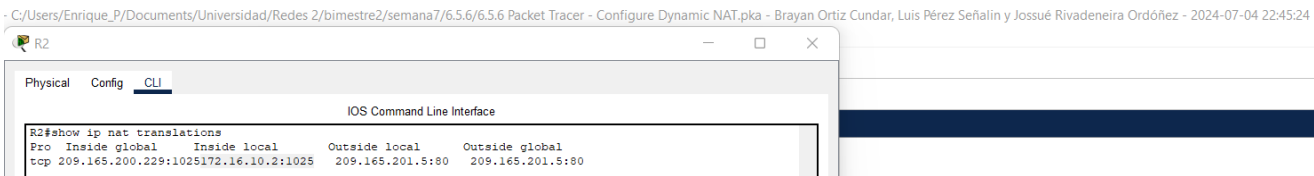
From the web browser of **L1**, **PC1**, or **PC2**, access the web page for **Server1**.



Step 2: View NAT translations.

View the NAT translations on **R2**. Identify the internal source address of the PC and the translated address from the NAT pool in the command output.

R2# show ip nat translations



ScreenShot:

Cisco Packet Tracer - C:/Users/Enrique_P/Documents/Universidad/Redes 2/bimestre2/semana7/6.5.6/6.5.6 Packet Tracer - Configure Dynamic NAT.pka - Brayan Ortiz Cundar, Luis Pérez Señalín y Jossué Rivadeneira Ordóñez - 2024-07-04 22:45:24

File Edit Options View Tools Extensions Window Help

Activity Results Time Elapsed: 00:11:14

Congratulations Brayan Ortiz Cundar, Luis Pérez Señalín y Jossué Rivadeneira Ordóñez! You completed the activity.

Overall Feedback **Assessment Items** Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
Network				
R2				
ACL	✓ 1	0	ACL	
NAT		20	Dynamic NAT Co...	
Inside Source List	✓	0	NAT	
NAT Source Setting 1	Correct	25	Dynamic NAT Co...	
Pools	✓	0	NAT	
Pool Name 1	Correct	25	Dynamic NAT Co...	
Ports				
Serial0/0/0		0	Other	
NAT Mode	Correct	15	NAT Interface Con...	
Serial0/0/1		0	Other	
NAT Mode	Correct	15	NAT Interface Con...	

Component	Items/Total	Score
Dynamic NAT Configuration	3/3	70/70
NAT Interface Configuration	2/2	30/30

Score: 100/100
Item Count: 5/5