

Packet Tracer - Configure NAT for IPv4 (Instructor Version)

Instructor Note: Red font color or gray highlights indicate text that appears in the instructor copy only.

6.8.1 Packet Tracer - Configure NAT for IPv4 Answers

Addressing Table

Device	Interface	IP Address
R1	S0/0/0	10.1.1.1/30
	F0/0	192.168.10.1/24
R2	S0/0/0	10.1.1.2/30
	S0/0/1	10.2.2.1/30
	S0/1/0	209.165.200.225/27
	F0/0/0	192.168.20.1/24
R3	S0/0/1	10.2.2.2/30
	F0/0	192.168.30.1/24
PC1	NIC	192.168.10.10/24
PC2	NIC	192.168.30.10/24
local.pka	NIC	192.168.20.254/24
Outside PC	NIC	209.165.201.14/28
cisco.pka	NIC	209.165.201.30/28

Objectives

- Configure Dynamic NAT with PAT
- Configure Static NAT

Background / Scenario

In this lab, you will configure a router with dynamic NAT with PAT. This will translate addresses from the three internal LANs to a single outside address. In addition, you will configure static NAT to translate an internal server address to an outside address.

Instructions

In this activity you will only configure router R2.

 Use a named ACL to permit the addresses from LAN1, LAN2, and LAN3 to be translated. Specify the LANs in this order. Use the name R2NAT. The name you use must match this name exactly.

- Create a NAT pool named R2POOL. The pool should use the first address from the 209.165.202.128/30
 address space. The pool name you use must match this name exactly. All translated addresses must use
 this address as their outside address.
- Configure NAT with the ACL and NAT pool that you have created.
- Configure static NAT to map the local.pka server inside address to the second address from the 209.165.202.128/30 address space.
- Configure the interfaces that will participate in NAT.

Answer Configurations

Router R2

```
enable
configure terminal
interface FastEthernet0/0
ip nat inside
interface Serial0/0/0
ip nat inside
interface Serial0/0/1
ip nat inside
interface Serial0/1/0
ip nat outside
ip nat pool R2POOL 209.165.202.129 209.165.202.129 netmask 255.255.255.252
ip nat inside source list R2NAT pool R2POOL overload
ip nat inside source static 192.168.20.254 209.165.202.130
ip access-list standard R2NAT
permit 192.168.10.0 0.0.0.255
permit 192.168.20.0 0.0.0.255
permit 192.168.30.0 0.0.0.255
end
```