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# Packet Tracer - Configure NAT for IPv4

## **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      | 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. 🥊 Cisco Packet Tracer - D:/2024A\_Bpoc/REDES\_II/6.8.1 Packet Tracer - Configure NAT for IPv4\_Brayan\_Ortiz\_Cunda... R2 X Physical Config CLI IOS Command Line Interface R2(config) #ip access-list st R2(config) #ip access-list standard R2NAT R2(config-std-nacl)#perm R2(config-std-nacl) #permit 192.168.10.0 0.0.0.255 R2(config-std-nacl) #permit 192.168.20.0 0.0.0.255 R2(config-std-nacl) #permit 192.168.30.0 0.0.0.255 R2(config-std-nacl)#exi R2(config-std-nacl) #exit R2(config) #ip nat pool R2POOL 209.165.202.128 net R2(config) #ip nat pool R2POOL 209.165.202.128 netm R2(config) #ip nat pool R2POOL 209.165.202.129 209.165.202.129 netmask 255.255.255.252 R2(config) #ip nat ins R2(config) #ip nat inside so R2(config) #ip nat inside source list R2NAT pool R2POOL ove R2(config) #ip nat inside source list R2NAT pool R2POOL overload R2(config) #ip nat ins R2(config) #ip nat inside so R2(config) #ip nat inside source st R2(config) #ip nat inside source static 192.168.20.254 209.165.202.130 R2(config)#int R2(config) #interface s0/0/1 R2(config-if) #ip nat out R2(config-if) #ip nat outside R2(config-if)#interface f0/1 R2(config-if)#ip nat R2(config-if)#ip nat in R2(config-if)#ip nat inside R2(config-if)#interface s0/0/1 R2(config-if) #ip nat ins R2(config-if)#ip nat inside R2(config-if)#interface s0/0/0 R2(config-if) #ip nat ins R2(config-if)#ip nat inside R2(config-if)#inteface s0/1/0 % Invalid input detected at '^' marker. R2(config-if)#interface s0/1/0 R2(config-if) #ip nat p R2(config-if) #ip nat o R2(config-if) #ip nat outside R2(config-if)#inter R2(config-if)#exit R2(config)#int R2(config)#interface FastEthernet0/0 R2(config-if) #ip nat ins R2(config-if)#ip nat insid Paste Сору ☐ Top

#### Captura de pantalla de verificación de completitud.

