How to Configure Static NAT

Steps to Configure Static NAT

To configure Static NAT, you need to perform the following steps:

1. On Router1, execute the following command to specify the inside interface that is Fa0/0.

Router1(config)#int fa0/0
Router1(config-if)#ip nat inside
Router1(config-if)#exit

2. Next, execute the following command to specify the outside interface that is Fa0/1. Router1(config) #int fa0/1 Pouter1(config=if) #ip pat outside

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Router1(config-if)#ip nat outside
Router1(config-if)#exit
```

3. Once, you have defined the inside and outside interfaces, now you need to specify the private IP addresses that need to be translated into the public IP addresses. In this case, we will translate 10.0.0.2 private IP address into 200.200.200.1 public IP address. To do so, execute the following command.

Router1(config)#ip nat inside source static 10.0.0.2 200.200.1

4. The following figure shows how to configure static NAT on a router.

R	Router1	_ 🗆 X			
Physical Config	CLI				
IOS Command Line Interface					
Router>en Router#config t Enter configuration commands, one per line. End with CNTL/Z. Router(config)#int fa0/0 Router(config-if)#ip nat inside Router(config-if)#exit Router(config-if)#ip nat outside Router(config-if)#ip nat outside Router(config-if)#exit Router(config)#ip nat inside source static 10.0.0.2 200.200.200.1 Router(config)#					
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Physical	Config CLI				
IOS Command Line Interface					
Router#show ip nat translations ^ Pro Inside global Inside local Outside local Outside global icmp 200.200.200.1:1 10.0.0.2:1 20.0.0.2:1 20.0.0.2:1 icmp 200.200.200.1:2 10.0.0.2:2 20.0.0.2:2 20.0.0.2:2 icmp 200.200.200.1:3 10.0.0.2:3 20.0.0.2:3 20.0.0.2:3 icmp 200.200.200.1:4 10.0.0.2:4 20.0.0.2:4 20.0.0.2:4 200.200.200.1:4 10.0.0.2 Router# Router# Router# Actual Private IP Address Router# V					
				Copy Paste	

In the preceding figure, you can see that 10.0.0.2 private IP address has been translated into 200.200.200.1 public IP address.

Removing NAT Configuration

If you have mapped a wrong IP address or want to disable the NAT translation for any reason, execute the following command.

Router1(config)#no ip nat inside source static 10.0.0.2 200.200.1