How To Configure Dynamic NAT

Steps to Configure Dynamic NAT

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

- 1. On Router1, execute the following commands to specify the inside and outside interfaces.
- 2. Router1(config)#int fa0/0
- 3. Router1(config-if)#ip nat inside
- 4. Router1(config-if)#exit
- 5. Router1(config)#int fa0/1
- 6. Router1(config-if)#ip nat outside
 Router1(config-if)#exit
- 7. Now, execute the following command to create a pool and specify the ranges that the NAT router will use to allocate IP addresses. Router1(config)#ip nat pool mypool 150.150.1.1 150.150.1.10 netmask 255.255.0.0
- 8. Next, execute the following command to apply the created pool. Router1(config)#ip nat inside source list 10 pool mypool
- 9. Next, execute the following commands to apply an ACL to allow the networks. Router1(config)#access-list 10 permit 10.0.0.0 0.255.255.255
- 10. Next, execute the following command to specify the interface and the ACL direction.
- 11. Router1(config)#int fa0/0
- 12. Router1(config-if) #ip access-group 50 out
- 13. Router1(config-if)#exit
- Router1(config)#exit

14. The following figure shows the Dynamic NAT configuration on Router1.

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Physical Config CLI				
IOS Command Line Interface				
Router1 (config) #i	nt fa0/0		Â	
Router1(config-if) #ip nat inside				
Router1(config-if)#int fa0/1				
Router1(config-if)#ip nat outside				
Router1 (config-if) #exit				
Router1 (config) #i	p nat pool mypool 150.150.1.1 150.150.1.1	2		
netmask 255.255.0.0				
Router1(config) #ip nat inside source list 10 pool mypool				
Router1(config) #access-list 10 permit 10.0.0.0 0.255.255.255				
Router1 (config) #int fa0/0				
Router1 (config-if) #ip access-group 10 out				
Routerl(config-if)#exit				
Router1(config) #exit				
Routeria Agya-5-CONFIG I.	Configured from console by console			
*515-5-CONFIG_1:	configured from console by console			
Router1#show acce	es-list			
Standard IP access list 10				
10 permit 10.0.0.0 0.255.255.255				
Router1#				
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Router1		x		
Physical Config CLI				
IOS Command Line Interface				
Router1(config) #int fa0/0 Router1(config-if) #ip nat inside Router1(config-if) #int fa0/1 Router1(config-if) #ip nat outside Router1(config) #ip nat pool mypool 150.150.1.1 150.150.1.10 netmask 255.255.0.0 Router1(config) #ip nat inside source list 10 pool mypool Router1(config) #access-list 10 permit 10.0.0.0 0.255.255.25 Router1(config) #int fa0/0 Router1(config-if) #ip access-group 10 out Router1(config-if) #exit Router1(config) #exit Router1# %SYS-5-CONFIG_I: Configured from console by console Router1#show access-list	5	<		
10 permit 10.0.0.0 0.255.255.255				
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Verify Dynamic NAT configuration

- To verify dynamic NAT configuration, open command prompts on PC0 and PC1 and type the following command on both PCs: Ping 192.168.1.2
- 2. Now, execute the following command to show the translated IP addresses. Router1#show ip nat translations

Verify that the private IP address is translated into a global IP address from the configured pool.