

## CCIE实验室考试指南(8) PDF转换可能丢失图片或格式，建议 阅读原文

[https://www.100test.com/kao\\_ti2020/181/2021\\_2022\\_CCIE\\_E5\\_AE\\_9E\\_E9\\_AA\\_8C\\_c101\\_181772.htm](https://www.100test.com/kao_ti2020/181/2021_2022_CCIE_E5_AE_9E_E9_AA_8C_c101_181772.htm) Lab 08 - NAT TRANSLATION

All configurations will refer to the diagram below. The scenario is as follows: Your organization is using the private address of 10.0.0.0 /24. Your ISP has assigned the public address of 200.200.200.0 /24 to your organization. Our goal is to configure Router A to provide us with address translation to go from the private address to the public address. We also want to advertise this public address out to the world. The configuration commands that accomplish these goals are presented in bold. Current configuration:

```
!version 11.3
no service
password-encryption
!hostname router_a
enable secret 5
$1$.s1R$iaEqZxLnYJo2QIZi8UNaO0
enable password guess
!ip nat
pool nat-example 200.200.200.1 200.200.200.255 prefix-length 24
ip nat inside source list 1 pool nat-example
!interface Ethernet0/0
ip address 200.200.200.1 255.255.255.0 secondary
ip address 10.10.10.1 255.255.255.0
ip nat inside
!interface Serial0/0
ip address 150.100.10.72 255.255.255.0
ip nat outside
encapsulation frame-relay
!interface TokenRing0/0
no ip address
shutdown
ring-speed 16
!interface FastEthernet1/0
no ip address
shutdown
!router rip
network 200.200.200.0
network 150.100.0.0
!ip classless
no logging
buffered
access-list 1 permit 10.10.10.0 0.0.0.255
!!line con
0 exec-timeout 0 0
line aux 0
line vty 0 4
login
!end
```

Explanation of the bold commands:

- ip nat pool** - Defines the pool name of "nat-example" the first public address is 200.200.200.1 and the last

address 200.200.200.255. The mask is 255.255.255.0 or /24  
 ip nat inside source - Applies the access-list 1 to the pool "nat-example"  
 ip address 200.200.200.1 255.255.255.0 secondary - Applies the public address to the e0/0 interface as a secondary address. Since we want to advertise the public address we must configure the address.  
 ip nat inside - Defines the e0/0 interface as the inside address  
 ip nat outside - Define serial 0 as the outside address  
 Router rip - Network 200.200.200.0  
 Because we configured the 200.200.200.0 address as a secondary address we can advertise it with RIP.  
 Access-list 1 permit 10.10.10.0 0.0.0.0.255 - Permits the private addresses on the 10.10.10.0 subnet to be translated to the public address.  
 The following is the actual translation taken after the serial 10.10.10.1 interface of the router and the workstation 10.10.10.2 performed a ping of the Serial interface of the ISP's router.  

```

router_a#sh ip nat trans
Pro Inside global Inside local Outside local Outside global
--- 200.200.200.1
10.10.10.1 --- ----- 200.200.200.2 10.10.10.2 --- --- 100
Test

```

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