



isp

Physical Config CLI Attributes

IOS Command Line Interface

```

Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#ip address 100.10.10.1 255.0.0.0
Router(config-if)#ip address 100.10.10.1 255.0.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
Router(config-if)#exit
Router(config)#access-list 1 permit 192.168.0.0 0.0.0.255
Router(config)#ip nat pool white-address 100.10.11.77 100.10.11.99 netmask 255.255.255.0
Router(config)#ip nat inside source list 1 pool white-address
Router(config)#
% Invalid input detected at '^' marker.
Router(config)#ip nat inside source list 1 pool white-address
Router(config)#int fa0/0
Router(config-if)#ip nat inside
Router(config-if)#int fa0/1
Router(config-if)#ip nat outside
Router(config-if)#exit
Router(config)#
  
```

PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 100.10.10.2

Pinging 100.10.10.2 with 32 bytes of data:

Request timed out.
Request timed out.
Reply from 100.10.10.2: bytes=32 time<1ms TTL=254
Reply from 100.10.10.2: bytes=32 time<1ms TTL=254

Ping statistics for 100.10.10.2:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 100.10.10.2

Pinging 100.10.10.2 with 32 bytes of data:

Reply from 100.10.10.2: bytes=32 time<1ms TTL=254
Reply from 100.10.10.2: bytes=32 time<1ms TTL=254
Reply from 100.10.10.2: bytes=32 time<1ms TTL=254
Reply from 100.10.10.2: bytes=32 time<1ms TTL=254

Ping statistics for 100.10.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 100.10.10.2

Pinging 100.10.10.2 with 32 bytes of data:

Request timed out.
Reply from 100.10.10.2: bytes=32 time<1ms TTL=254
Reply from 100.10.10.2: bytes=32 time=3ms TTL=254
Reply from 100.10.10.2: bytes=32 time<1ms TTL=254

Ping statistics for 100.10.10.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 3ms, Average = 1ms

C:\>ping 100.10.10.2

Pinging 100.10.10.2 with 32 bytes of data:

Reply from 100.10.10.2: bytes=32 time=5ms TTL=254
Reply from 100.10.10.2: bytes=32 time<1ms TTL=254
Reply from 100.10.10.2: bytes=32 time<1ms TTL=254
Reply from 100.10.10.2: bytes=32 time<1ms TTL=254

Ping statistics for 100.10.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 5ms, Average = 1ms

C:\>
```

## IOS Command Line Interface

```
Router(config-if)#  
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up  
  
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up  
  
Router(config-if)#exit  
Router(config)#access-list 1 permit 192.168.0.0 0.0.0.255  
Router(config)#ip nat pool white-address 100.10.11.77 100.10.11.99 netmask 255.255.255.0  
Router(config)#ip nat inside source list 1 pool white-address  
  
% Invalid input detected at '^' marker.  
  
Router(config)#ip nat inside source list 1 pool white-address  
Router(config)#int fa0/0  
Router(config-if)#ip nat inside  
Router(config-if)#int fa0/1  
Router(config-if)#ip nat outside  
Router(config-if)#exit  
Router(config)#end  
Router#  
%SYS-5-CONFIG_I: Configured from console by console  
  
Router#sh  
Router#show ip  
Router#show ip nat  
Router#show ip nat tr  
Router#show ip nat translations  


| Pro  | Inside global  | Inside local  | Outside local | Outside global |
|------|----------------|---------------|---------------|----------------|
| icmp | 100.10.11.78:2 | 192.168.0.2:2 | 100.10.10.2:2 | 100.10.10.2:2  |
| icmp | 100.10.11.78:3 | 192.168.0.2:3 | 100.10.10.2:3 | 100.10.10.2:3  |
| icmp | 100.10.11.78:4 | 192.168.0.2:4 | 100.10.10.2:4 | 100.10.10.2:4  |
| icmp | 100.10.11.78:5 | 192.168.0.2:5 | 100.10.10.2:5 | 100.10.10.2:5  |
| icmp | 100.10.11.78:6 | 192.168.0.2:6 | 100.10.10.2:6 | 100.10.10.2:6  |
| icmp | 100.10.11.78:7 | 192.168.0.2:7 | 100.10.10.2:7 | 100.10.10.2:7  |
| icmp | 100.10.11.78:8 | 192.168.0.2:8 | 100.10.10.2:8 | 100.10.10.2:8  |


```

D:\isp\#