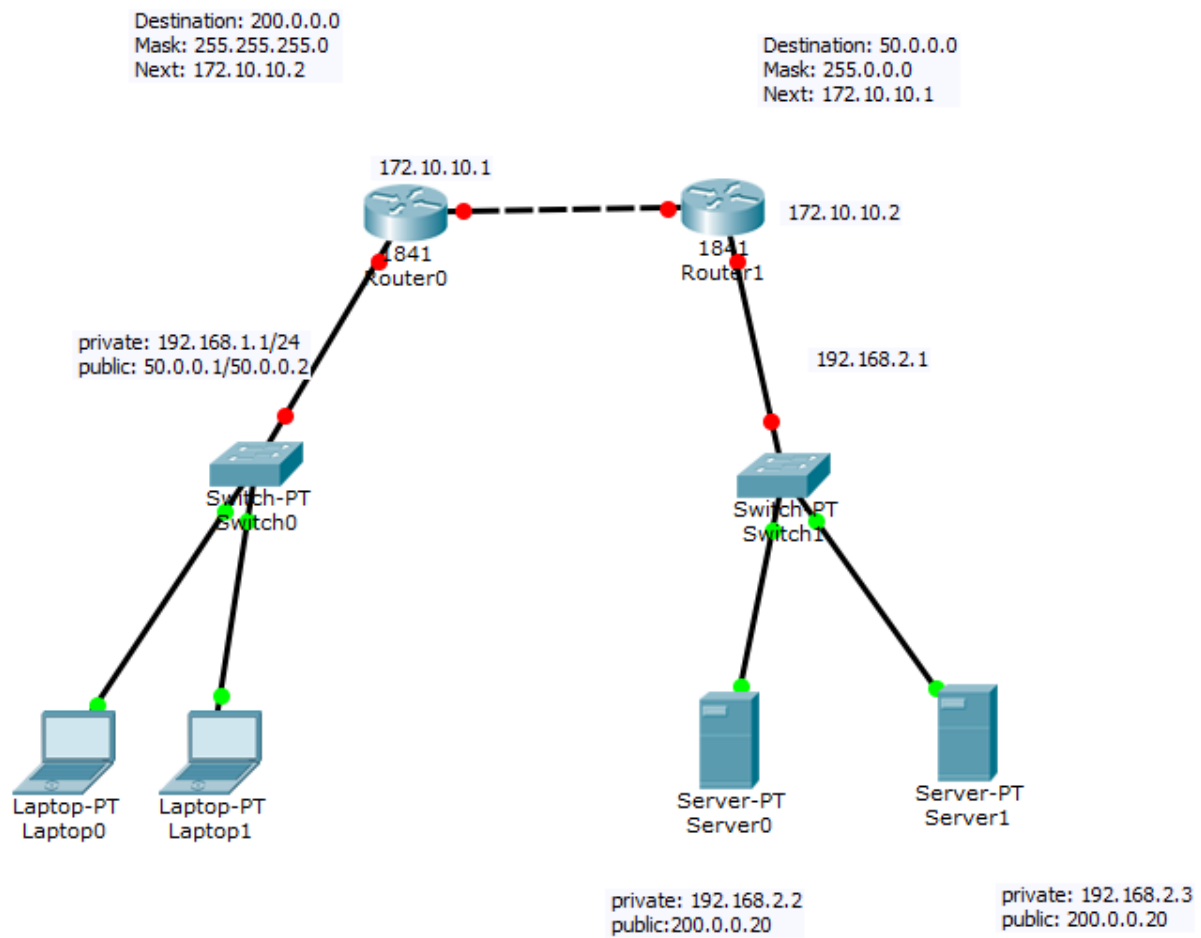


LAB-11-HOME

Rao Nauman

P19-0073

Topology:



R1:

```

Router(config)#int f0/0
Router(config-if)#ip add 172.10.10.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

Router(config-if)#ex
Router(config)#int f0/1
Router(config-if)#ip add 192.168.1.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed
up
ex
Router(config)#hostname r1
r1(config)#

```

R2:

```

Router>en
Router#conf ter
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int f0/0
Router(config-if)#ip add 172.10.10.2 255.255.255.0
Router(config-if)#no shut

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
e
Router(config)#int f0/1
Router(config-if)#ip add 192.168.2.1 255.255.255.0
Router(config-if)#no shut

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
ex
Router(config)#hostname r2
r2(config)#

```

DHCP for R1:

```

r1(config)#ip dhcp pool p1
r1(dhcp-config)#network 192.168.1.0 255.255.255.0
r1(dhcp-config)#default-router 192.168.1.1
r1(dhcp-config)#dns-server 192.168.1.1
r1(dhcp-config)#

```

Flex Serer:

IP Configuration

InterfaceFastEthernet0

IP Configuration

☐ DHCP

☒ Static

IP Address

192.168.2.2

Subnet Mask

255.255.255.0

Default Gateway

192.168.2.1

DNS Server

192.168.2.1

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

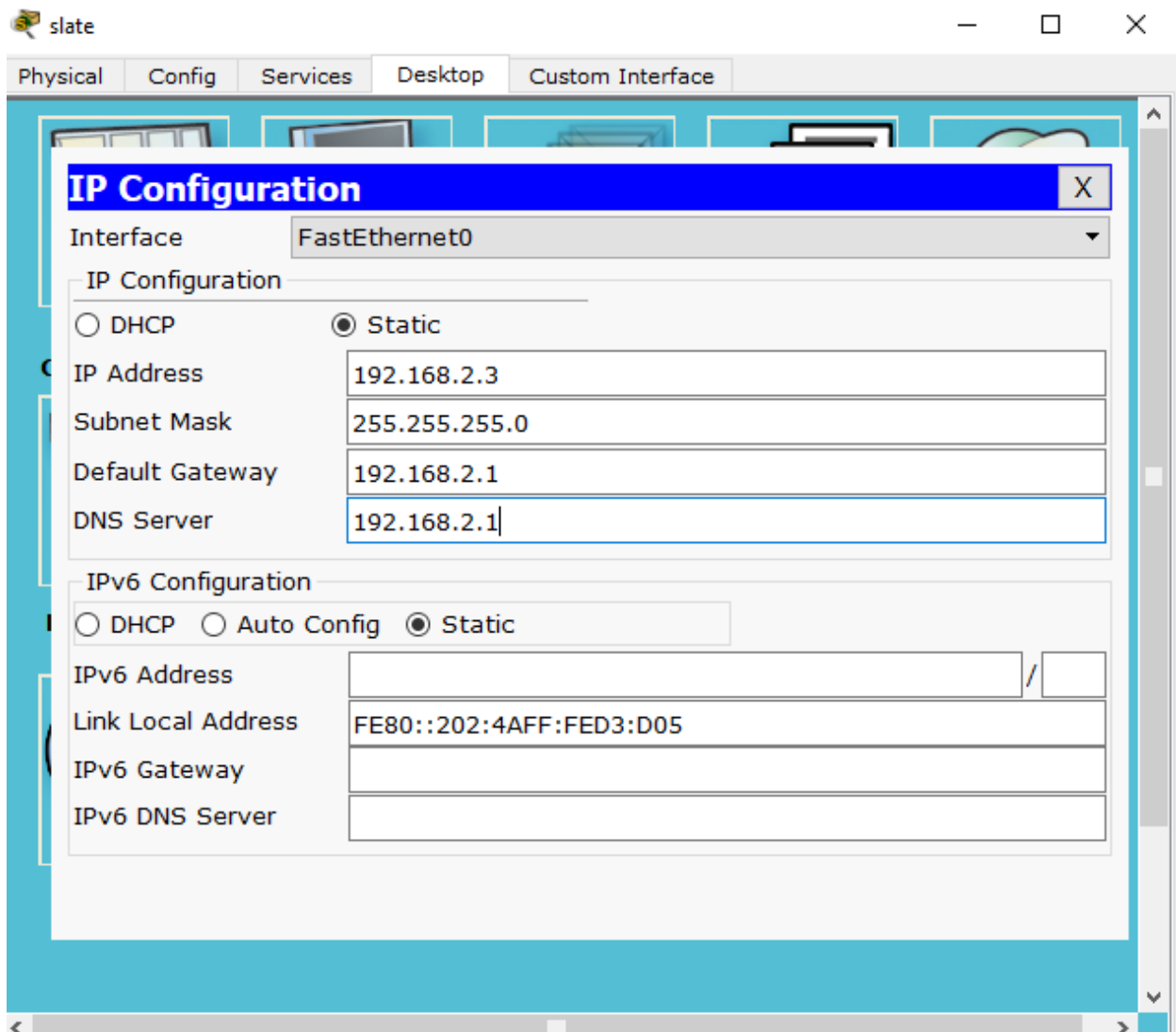
Link Local Address

FE80::260:47FF:FE01:4AB8

IPv6 Gateway

IPv6 DNS Server

Slate Server:



Nat for R1:

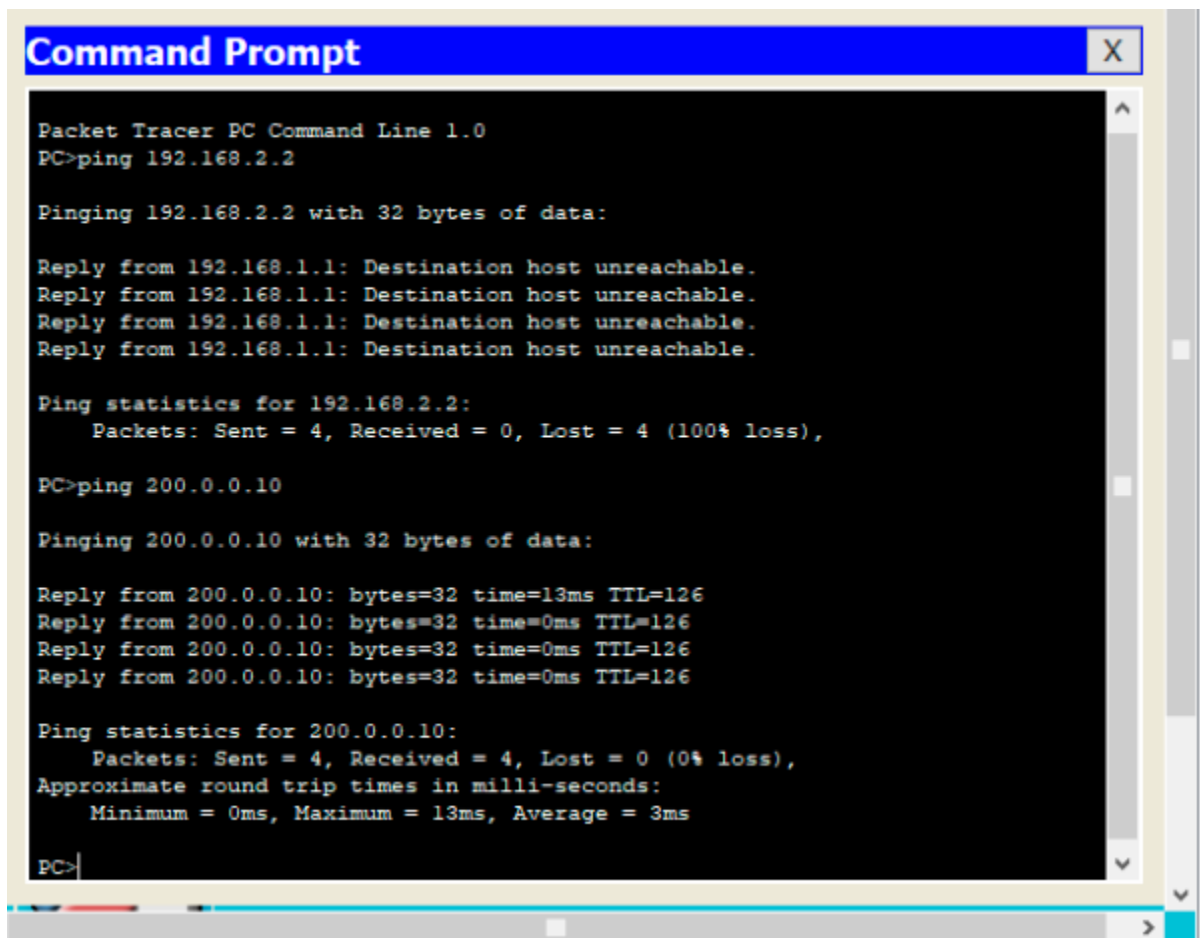
```
rl(config)#ip nat pool ccna 50.0.0.1 50.0.0.2 netmask 255.0.0.0
rl(config)#ip nat inside source list 1 pool ccna
rl(config)#int f0/0
rl(config-if)#ip nat outside
rl(config-if)#ex
rl(config)#ip nat inside
% Incomplete command.
rl(config)#int f0/0
rl(config-if)#ip nat inside
rl(config-if)#ex
rl(config)#
```

Nat for R2:

```
:2>en
:2#conf ter
Inter configuration commands, one per line. End with CNTL/Z.
:2(config)#ip nat inside source static 192.168.2.2 200.0.0.10
:2(config)#ip nat inside source static 192.168.2.3 200.0.0.20
:2(config)#int f0/0
:2(config-if)#ip nat outside
:2(config-if)#ex
:2(config)#int f0/1
:2(config-if)#ip nat inside
:2(config-if)#ex
:2(config)#

r1(config)#ip route 200.0.0.0 255.0.0.0 172.10.10.2
r1(config)#

r2(config)#ip route 50.0.0.0 255.0.0.0 172.10.10.1
r2(config)#
```

A screenshot of a Packet Tracer PC Command Line window. The window has a blue title bar with the text "Command Prompt" and a close button (X). The main area is black with white text. The text shows a PC performing ping tests. First, it pings 192.168.2.2, which fails with "Destination host unreachable" for all four attempts. Then, it pings 200.0.0.10, which succeeds with "bytes=32 time=13ms TTL=126" for all four attempts. Finally, it shows ping statistics for 200.0.0.10: 4 packets sent, 4 received, 0 lost (0% loss), with round trip times of 0ms, 13ms, 0ms, and 0ms. The window ends with a "PC>" prompt.

```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>ping 200.0.0.10

Pinging 200.0.0.10 with 32 bytes of data:

Reply from 200.0.0.10: bytes=32 time=13ms TTL=126
Reply from 200.0.0.10: bytes=32 time=0ms TTL=126
Reply from 200.0.0.10: bytes=32 time=0ms TTL=126
Reply from 200.0.0.10: bytes=32 time=0ms TTL=126

Ping statistics for 200.0.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 13ms, Average = 3ms

PC>
```

Web Browser

X

<

>

URL

http://192.168.2.2

Go

Stop

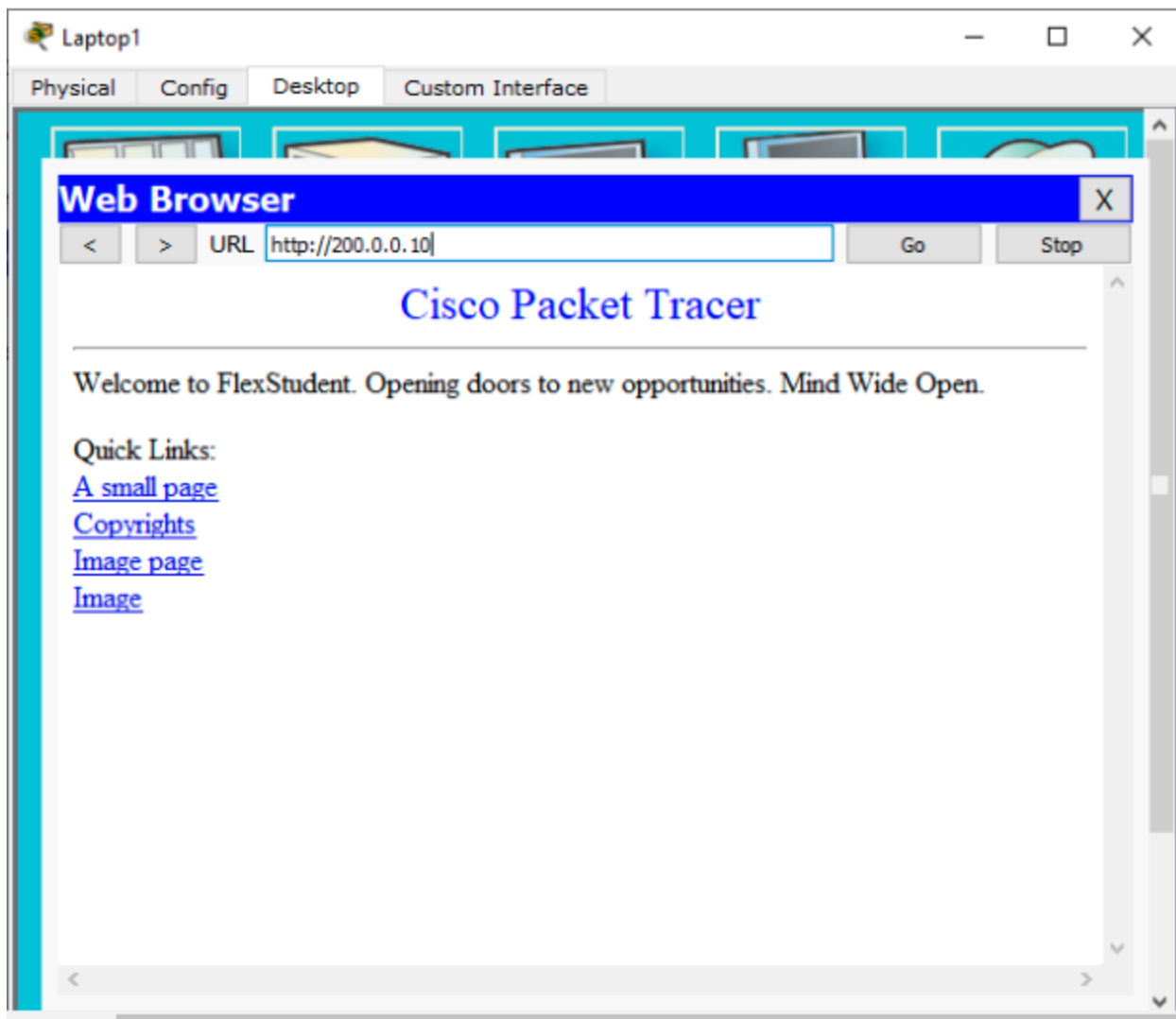
Request Timeout

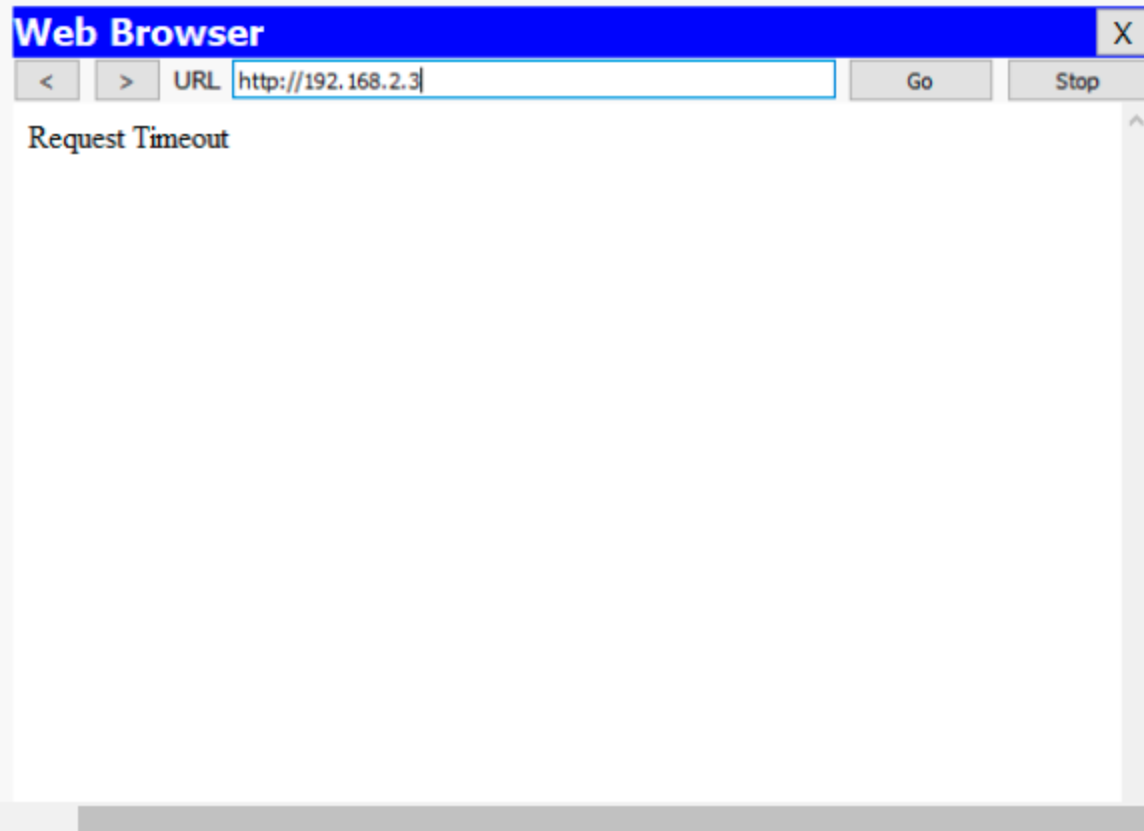
^

v

<

>





Web Browser

X

<

>

URL

Go

Stop

Cisco Packet Tracer

Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.

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