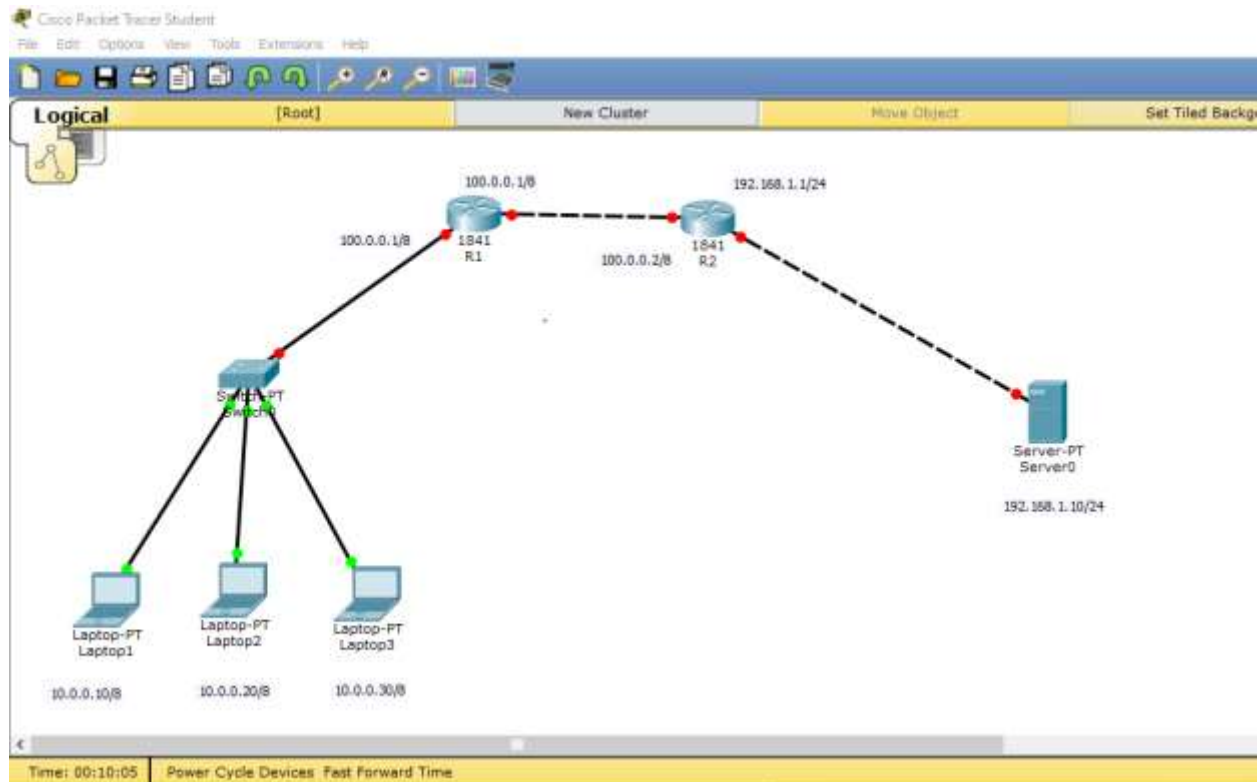


**ASJID TAHIR**

**p19-0085**

**CN-LAB 11**

**DYNAMMIC NAT CONFIGURATION:**



Laptop3

PhysicalConfigDesktopCustom Interface

IP Configuration

IP Configuration

☐ DHCP

☒ Static

IP Address

10.0.0.30

Subnet Mask

255.0.0.0

Default Gateway

10.0.0.1

DNS Server

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

/

Link Local Address

FE80::260:5CFF:FEED:1B34

IPv6 Gateway

IPv6 DNS Server

Laptop2

PhysicalConfigDesktopCustom Interface

IP Configuration

IP Configuration

☐ DHCP

☒ Static

IP Address

10.0.0.20

Subnet Mask

255.0.0.0

Default Gateway

10.0.0.1

DNS Server

.

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

Link Local Address

FE80::20C:CFFF:FE8E:498D

IPv6 Gateway

IPv6 DNS Server

Laptop1

PhysicalConfigDesktopCustom Interface

IP Configuration

IP Configuration

☐ DHCP

☒ Static

IP Address

10.0.0.10

Subnet Mask

255.0.0.0

Default Gateway

10.0.0.1

DNS Server

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

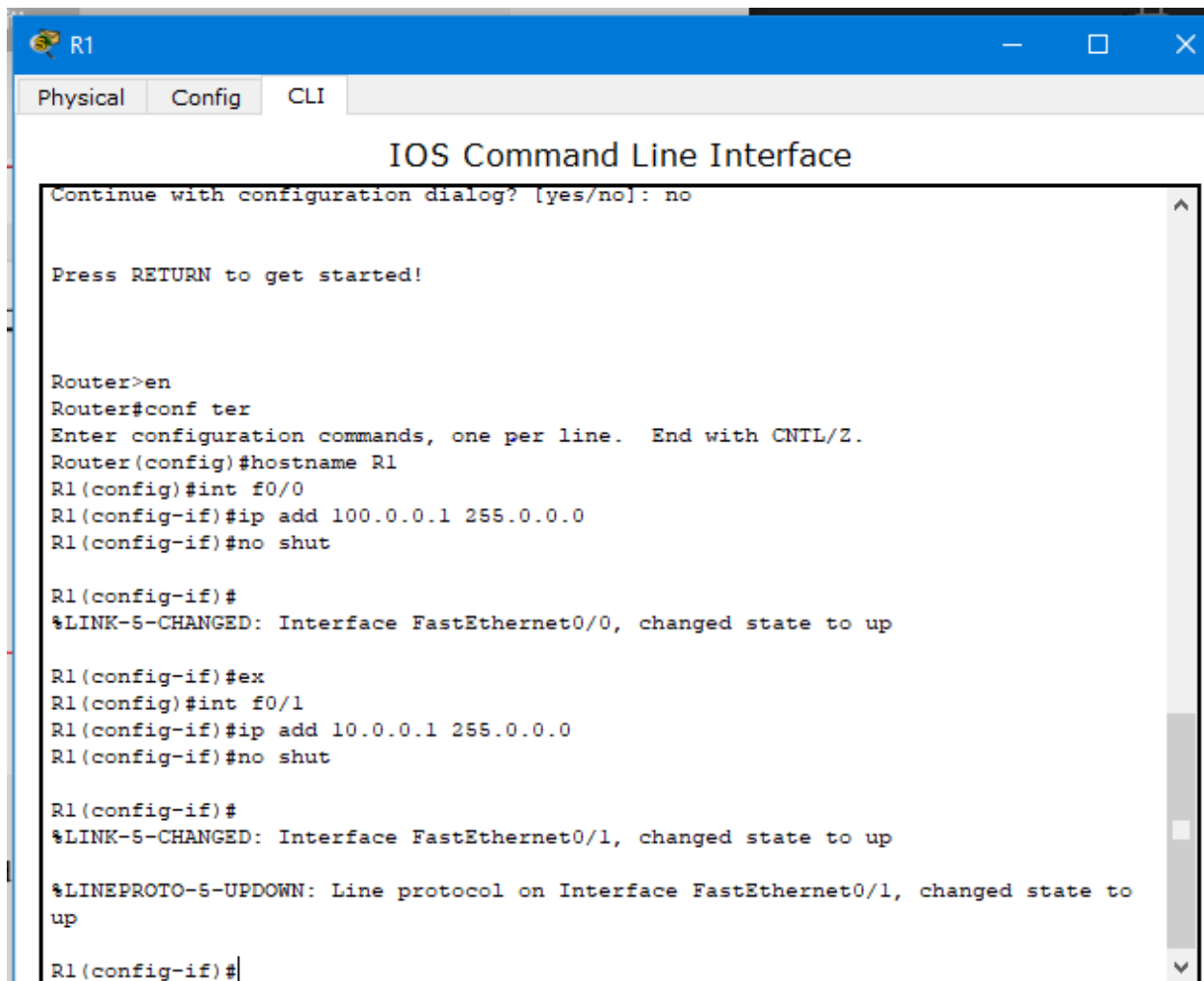
IPv6 Address

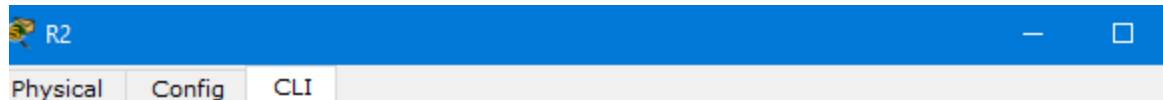
Link Local Address

FE80::2E0:B0FF:FE75:A1E1

IPv6 Gateway

IPv6 DNS Server





## IOS Command Line Interface

Press RETURN to get started!

```
Router>en
Router#conf ter
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname R2
R2(config)#int f0/0
R2(config-if)#ip add 100.0.0.2 255.0.0.0
R2(config-if)#no shut

R2(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

R2(config-if)#ex
R2(config)#int f0/1
R2(config-if)#ip add 192.168.1.1 255.255.255.0
R2(config-if)#no shut

R2(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

R2(config-if)#|
```

## NAT:

## R1:

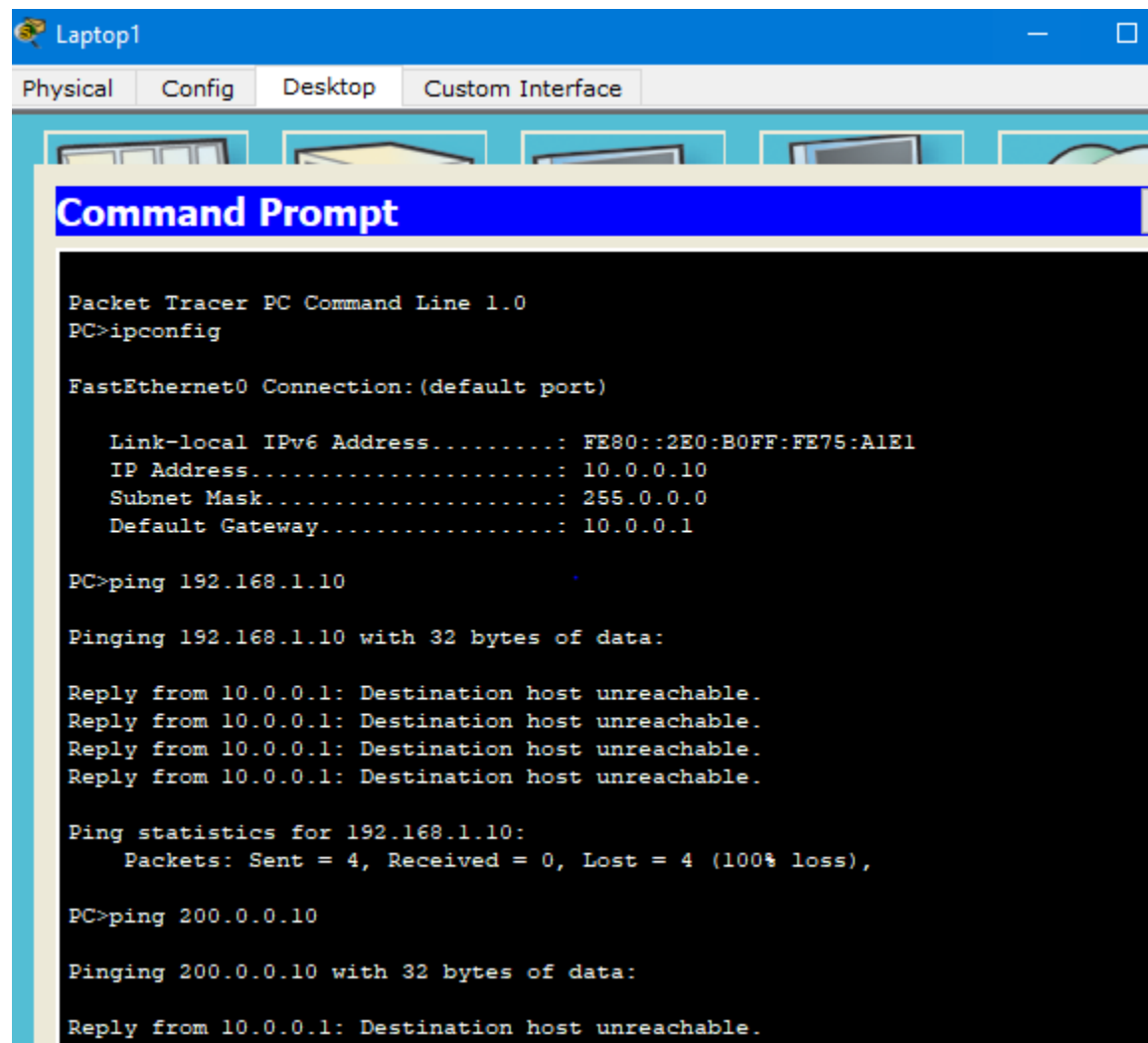
```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed :
up

R1(config-if)#access-list 1 permit 10.0.0.0 0.255.255.255
R1(config)#ip nat pool ccna 50.0.0.1 50.0.0.2 netmask 255.0.0.0
R1(config)#ip nat inside source list 1 pool ccna
R1(config)#interface f0/1
R1(config-if)#ip nat inside
R1(config-if)#ex
R1(config)#int f0/0
R1(config-if)#ip nat outside
R1(config-if)#exit
R1(config)#|
```

Copy

## R2:

```
R2>en
R2#conf ter
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#ip nat inside source static 192.168.1.10 200.0.0.10
R2(config)#int f0/0
R2(config-if)#ip nat outside
R2(config-if)#ex
R2(config)#int f0/1
R2(config-if)#ip nat outside
R2(config-if)#ex
R2(config)#
```



```
PC>ping 200.0.0.10
```

```
Pinging 200.0.0.10 with 32 bytes of data:
```

```
Reply from 10.0.0.1: Destination host unreachable.
```

```
Reply from 10.0.0.1: Destination host unreachable.
```

```
Reply from 10.0.0.1: Destination host unreachable.
```

```
Reply from 10.0.0.1: Destination host unreachable.
```

```
Ping statistics for 200.0.0.10:
```

```
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
PC>|
```