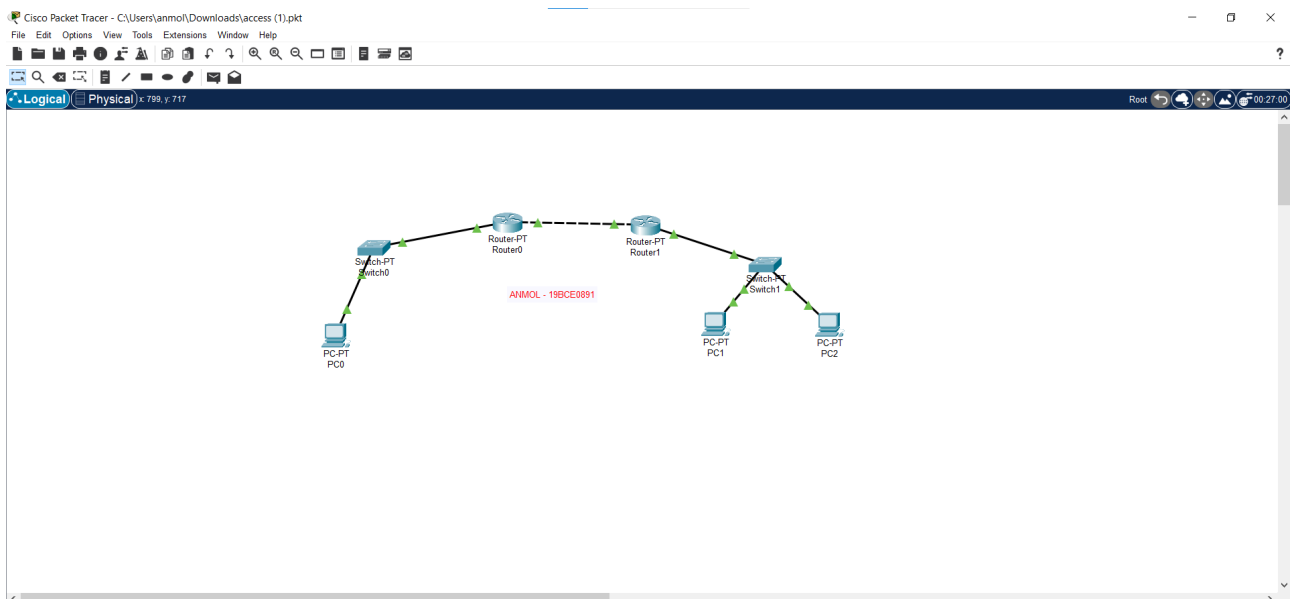


NAME – ANMOL
REG. NO. - 19BCE0891

DIGITAL ASSIGNMENT – 2

NETWORK TOPOLOGY



PC0 CONFIGURATIONS

PC0

Physical Config Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 00D0.BA4D.643E

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.1.100

Subnet Mask 255.255.255.0

IPv6 Configuration

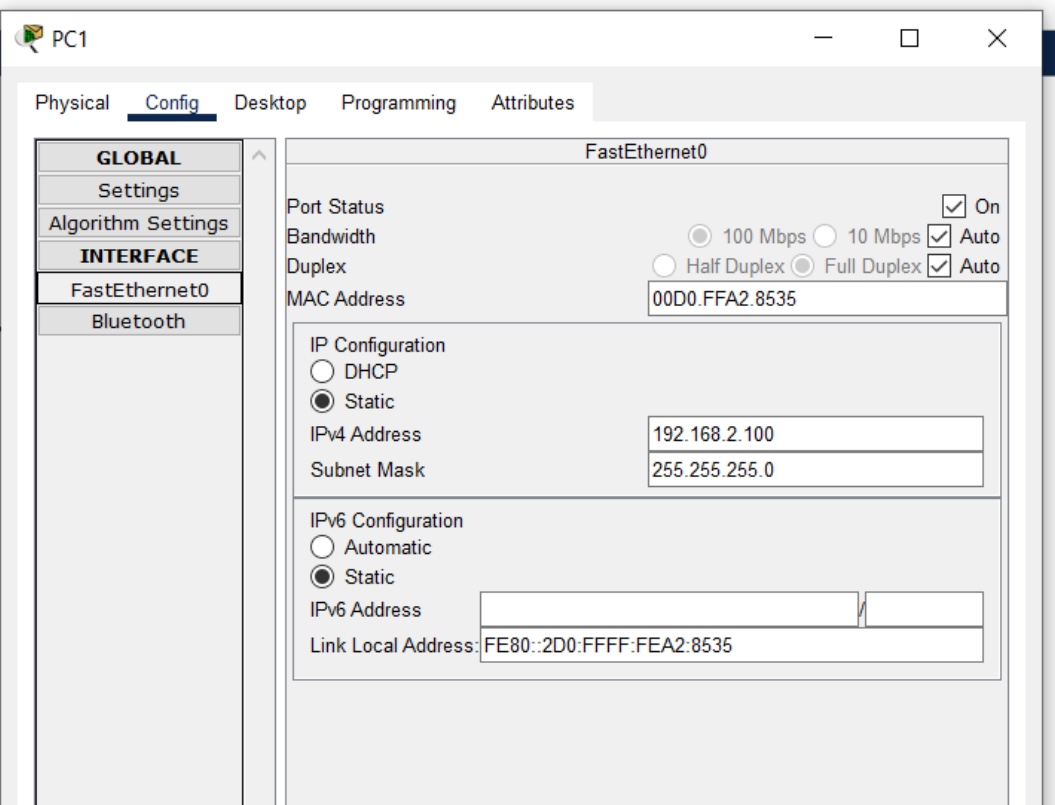
☐ Automatic

☒ Static

IPv6 Address

Link Local Address FE80::2D0:BAFF:FE4D:643E

PC1 CONFIGURATIONS



The image shows the configuration window for PC1. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Config tab is active. On the left, there is a sidebar with 'GLOBAL' and 'INTERFACE' sections. Under 'INTERFACE', 'FastEthernet0' is selected. The main area shows the configuration for 'FastEthernet0'. The Port Status is 'On'. Bandwidth is set to '100 Mbps'. Duplex is set to 'Full Duplex'. The MAC Address is '00D0.FFA2.8535'. The IP Configuration is set to 'Static' with an IPv4 Address of '192.168.2.100' and a Subnet Mask of '255.255.255.0'. The IPv6 Configuration is set to 'Static' with an IPv6 Address field and a Link Local Address of 'FE80::2D0:FFFF:FEA2:8535'.

PC1

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 00D0.FFA2.8535

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.2.100

Subnet Mask 255.255.255.0

IPv6 Configuration

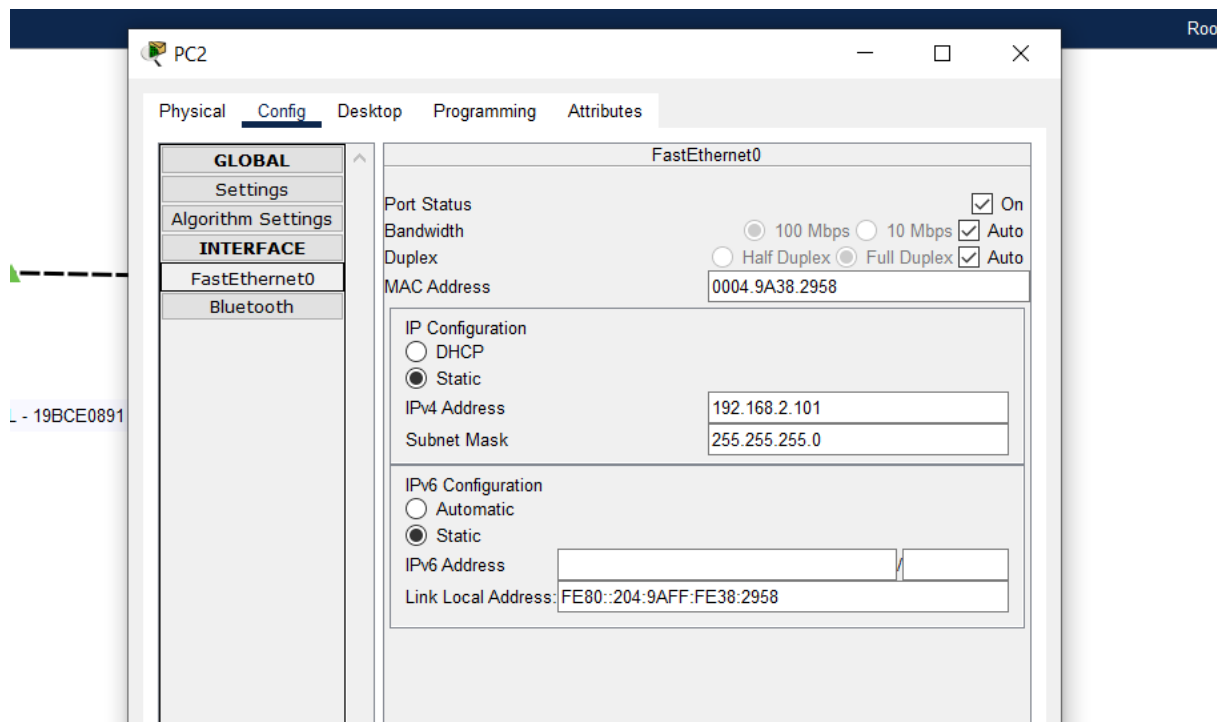
☐ Automatic

☒ Static

IPv6 Address

Link Local Address: FE80::2D0:FFFF:FEA2:8535

PC2 CONFIGURATIONS



The image shows the configuration window for PC2. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Config tab is active. On the left, there is a sidebar with 'GLOBAL' and 'INTERFACE' sections. Under 'INTERFACE', 'FastEthernet0' is selected. The main area shows the configuration for 'FastEthernet0'. The Port Status is 'On'. Bandwidth is set to '100 Mbps'. Duplex is set to 'Full Duplex'. The MAC Address is '0004.9A38.2958'. The IP Configuration is set to 'Static' with an IPv4 Address of '192.168.2.101' and a Subnet Mask of '255.255.255.0'. The IPv6 Configuration is set to 'Static' with an IPv6 Address field and a Link Local Address of 'FE80::204:9AFF:FE38:2958'.

PC2

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0004.9A38.2958

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.2.101

Subnet Mask 255.255.255.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address: FE80::204:9AFF:FE38:2958

ROUTER 0 CONFIGURATIONS

The screenshot shows the configuration window for Router0, specifically the 'Config' tab for the 'FastEthernet0/0' interface. The left sidebar shows the configuration tree with 'FastEthernet0/0' selected under the 'INTERFACE' section. The main area displays the following settings:

- Port Status:** ☒ On
- Bandwidth:** ☒ Auto
- Duplex:** ☒ Full Duplex
- MAC Address:** 000B.BE01.90D5
- IP Configuration:**
 - IPv4 Address: 192.168.1.1
 - Subnet Mask: 255.255.255.0
- Tx Ring Limit:** 10

Below the configuration fields, the 'Equivalent IOS Commands' section shows the following commands:

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

The screenshot shows the configuration window for Router0, specifically the 'Config' tab for the 'FastEthernet1/0' interface. The left sidebar shows the configuration tree with 'FastEthernet1/0' selected under the 'INTERFACE' section. The main area displays the following settings:

- Port Status:** ☒ On
- Bandwidth:** ☒ Auto
- Duplex:** ☒ Full Duplex
- MAC Address:** 0002.16D4.9392
- IP Configuration:**
 - IPv4 Address: 192.168.3.1
 - Subnet Mask: 255.255.255.0
- Tx Ring Limit:** 10

Below the configuration fields, the 'Equivalent IOS Commands' section shows the following commands:

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#
```

ROUTER 1 CONFIGURATIONS

Router1

Physical **Config** CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

FastEthernet0/0

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 00D0.BCE3.1417

IP Configuration

IPv4 Address 192.168.3.2

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
  
```

Router1

Physical **Config** CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

FastEthernet1/0

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0090.0C82.60DC

IP Configuration

IPv4 Address 192.168.2.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

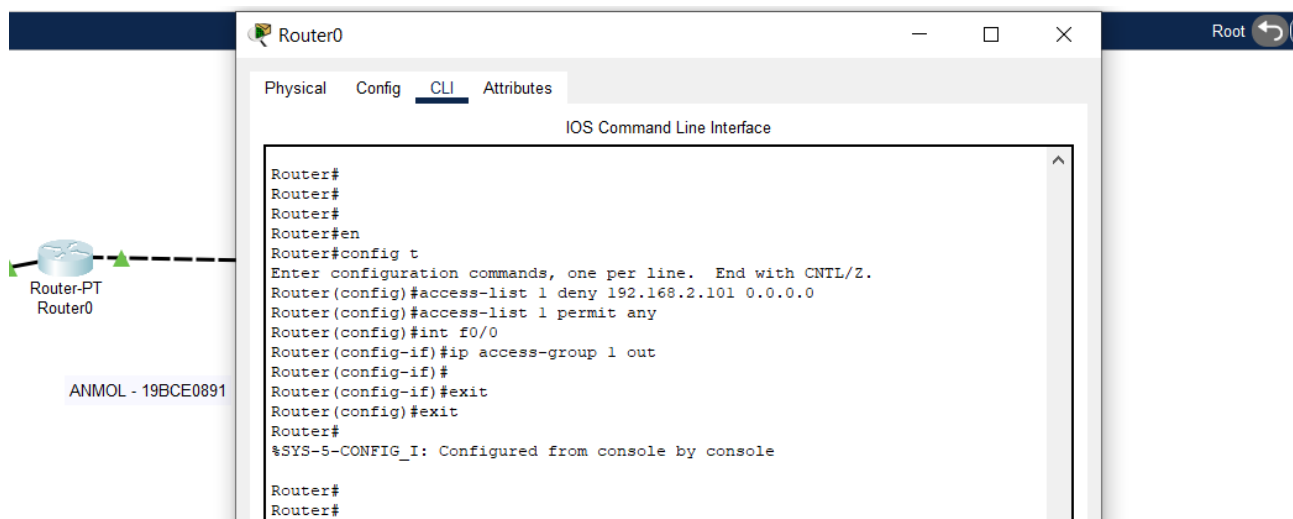
Equivalent IOS Commands

```

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#
  
```

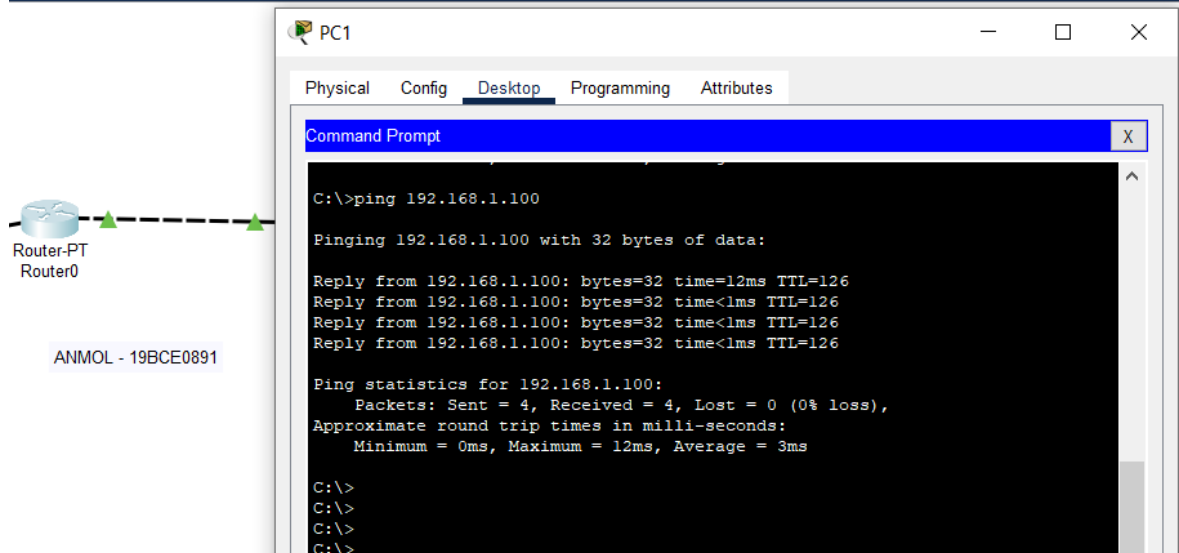
ROUTER 0 – ACCESS LIST**(denying service for pc2)**

```
Router>
Router>enable
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#access-list 1 deny 192.168.2.101 0.0.0.0
Router(config)#access-list 1 permit any
Router(config)#int f0/0
Router(config-if)#ip access-group 1 out
Router(config-if)#
```



**PC1 and PC2 BELONGS TO SAME NETWORK, BUT PC1 CAN PING PC0 and PC2
CAN'T PING PC1**

PC1 pinging PC0 (SUCCESSFUL)



PC2 pinging PC0 (failure – Destination host unreachable)

