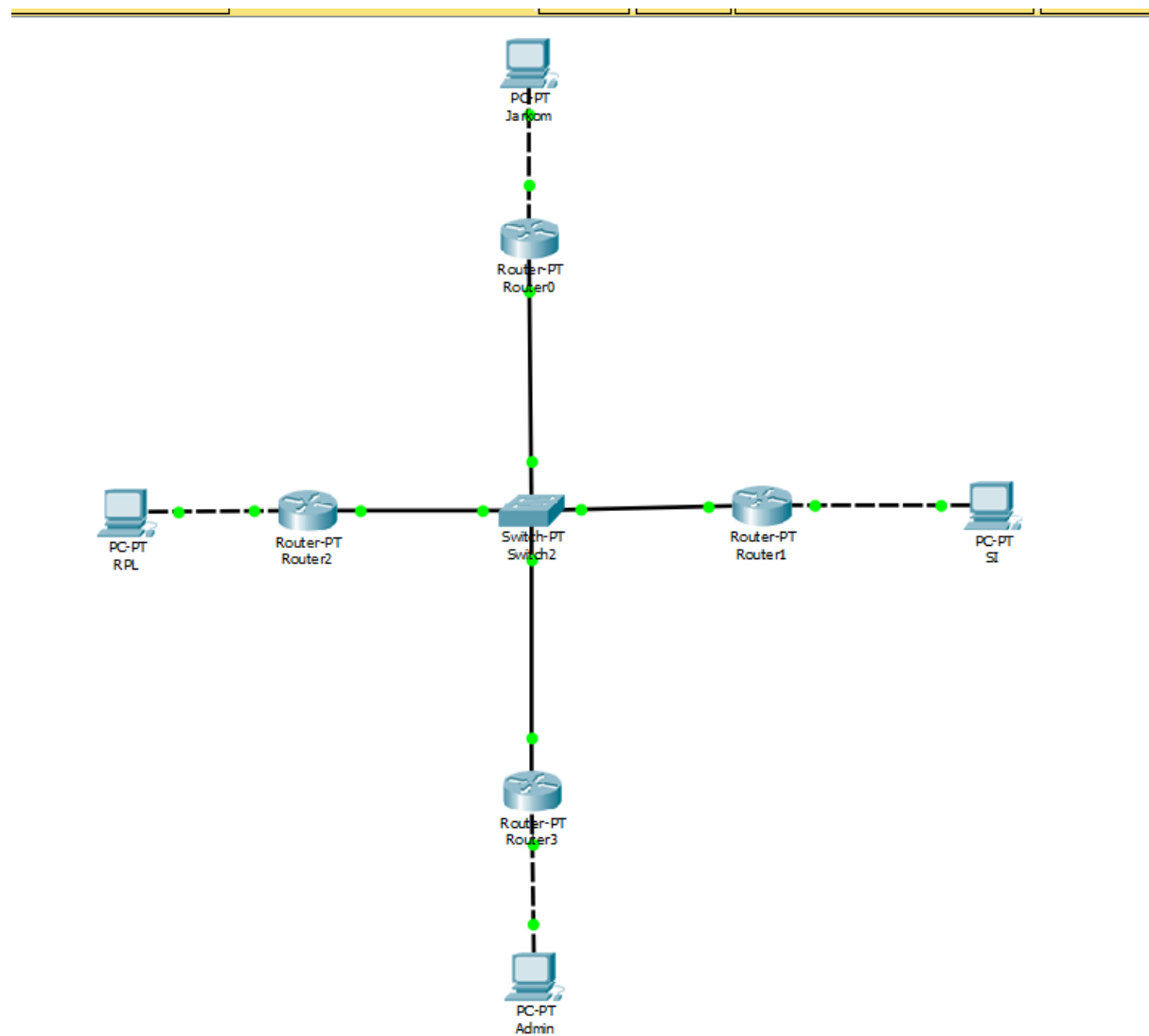


Name : Shidqi Aditya Falah

NIM : L202173001

Class : X

Modul 11



1. Melakukan Konfigurasi pada masing masing Router

```
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa 0/0
Router(config-if)#ip address 172.16.0.1 255.255.255.0
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

Router(config-if)#int fa 1/0
Router(config-if)#ip address 172.15.0.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

Ctrl+F6 to exit CLI focus

 Top

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 172.17.0.1 255.255.0.0
Router(config-if)#ip address 172.17.0.1 255.255.0.0
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
ip address 172.17.0.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#ip address 172.15.0.2 255.255.0.0
Router(config-if)#ip address 172.15.0.2 255.255.0.0
Router(config-if)#ip address 172.15.0.2 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
```

Ctrl+F6 to exit CLI focus

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 172.18.0.1 255.255.0.0
Router(config-if)#ip address 172.18.0.1 255.255.0.0
Router(config-if)#ip address 172.18.0.1 255.255.255.0
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 FastEthernet1/0
Router(config-if)#ip address 172.15.0.3 255.255.0.0
Router(config-if)#ip address 172.15.0.3 255.255.0.0
Router(config-if)#ip address 172.15.0.3 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
|
```

Ctrl+F6 to exit CLI focus

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 172.19.0.1 255.255.0.0
Router(config-if)#ip address 172.19.0.1 255.255.0.0
Router(config-if)#ip address 172.19.0.1 255.255.255.0
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 FastEthernet1/0
Router(config-if)#ip address 172.15.0.4 255.255.0.0
Router(config-if)#ip address 172.15.0.4 255.255.0.0
Router(config-if)#ip address 172.15.0.4 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
|
```

Ctrl+F6 to exit CLI focus

2. Melakukan RIP Routing pada masing masing Router

Router Jarkom

```
Router(config)#router rip
Router(config-router)#network 172.15.0.0
Router(config-router)#network 172.16.0.0
Router(config-router)#network 172.17.0.0
Router(config-router)#network 172.18.0.0
Router(config-router)#network 172.19.0.0
Router(config-router)#
```

Ctrl+F6 to exit CLI focus

Router SI

```
Router(config)#router rip
Router(config-router)#network 172.15.0.0
Router(config-router)#network 172.16.0.0
Router(config-router)#network 172.17.0.0
Router(config-router)#network 172.18.0.0
Router(config-router)#network 172.19.0.0
Router(config-router)#
```

Ctrl+F6 to exit CLI focus

Router RPL

```
Router(config)#router rip
Router(config-router)#network 172.15.0.0
Router(config-router)#network 172.16.0.0
Router(config-router)#network 172.17.0.0
Router(config-router)#network 172.18.0.0
Router(config-router)#network 172.19.0.0
Router(config-router)#
```

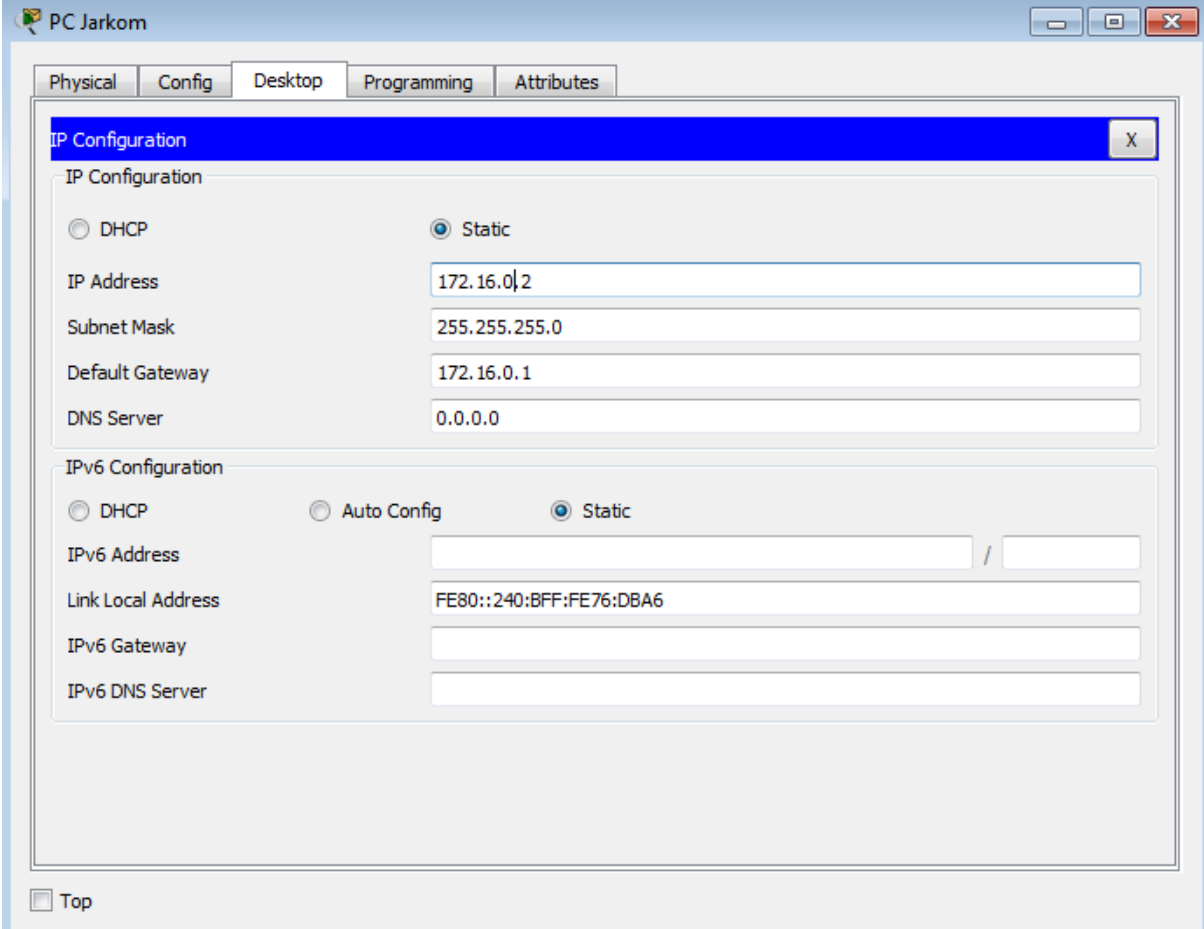
Ctrl+F6 to exit CLI focus

Router Admin

```
Router(config)#router rip
Router(config-router)#network 172.15.0.0
Router(config-router)#network 172.16.0.0
Router(config-router)#network 172.17.0.0
Router(config-router)#network 172.18.0.0
Router(config-router)#network 172.19.0.0
Router(config-router)#
```

Ctrl+F6 to exit CLI focus

3. Melakukan Konfigurasi IP pada masing masing PC



The screenshot shows a window titled "PC Jarkom" with a tabbed interface. The "Config" tab is selected, and the "IP Configuration" section is active. The "Static" radio button is selected for IP configuration. The fields are filled with the following values:

Field	Value
IP Address	172.16.0.2
Subnet Mask	255.255.255.0
Default Gateway	172.16.0.1
DNS Server	0.0.0.0

Below the IP Configuration section is the "IPv6 Configuration" section. The "Static" radio button is selected. The fields are filled with the following values:

Field	Value
IPv6 Address	
Link Local Address	FE80::240:BFF:FE76:DBA6
IPv6 Gateway	
IPv6 DNS Server	

At the bottom left of the window, there is a "Top" button.

PC SI

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

X

IP Configuration

DHCP

Static

IP Address

172.17.0.2

Subnet Mask

255.255.255.0

Default Gateway

172.17.0.1

DNS Server

0.0.0.0

IPv6 Configuration

DHCP

Auto Config

Static

IPv6 Address

/

Link Local Address

FE80::20C:85FF:FE59:8964

IPv6 Gateway

IPv6 DNS Server

Top

PC RPL

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

X

IP Configuration

DHCP

Static

IP Address

172.18.0.2

Subnet Mask

255.255.255.0

Default Gateway

172.18.0.1

DNS Server

0.0.0.0

IPv6 Configuration

DHCP

Auto Config

Static

IPv6 Address

/

Link Local Address

FE80::202:16FF:FE1A:B1B0

IPv6 Gateway

IPv6 DNS Server

Top

PC Admin

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

X

IP Configuration

DHCP

Static

IP Address172.19.0.2

Subnet Mask255.255.255.0

Default Gateway172.19.0.1

DNS Server0.0.0.0

IPv6 Configuration

DHCP

Auto Config

Static

IPv6 Address/

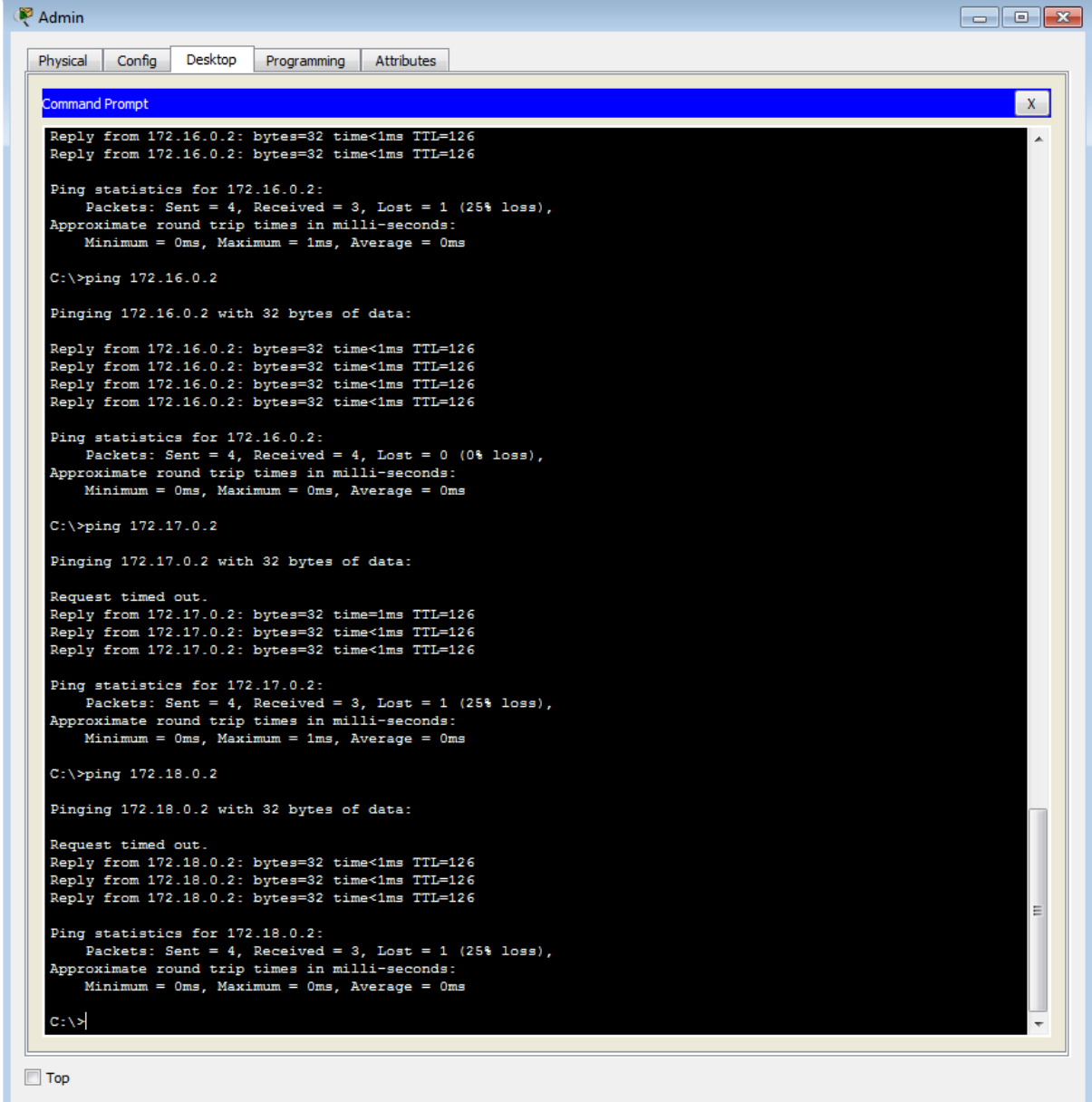
Link Local AddressFE80::201:42FF:FEB6:ED33

IPv6 Gateway

IPv6 DNS Server

Top

4. Melakukan Ping dari PC Admin menuju semua PC



The screenshot shows a network management interface with tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Desktop' tab is active, displaying a Command Prompt window. The Command Prompt shows the results of a series of ping commands executed from a PC named 'Admin' to three different IP addresses: 172.16.0.2, 172.17.0.2, and 172.18.0.2. Each IP address is pinged four times, and the statistics for each are displayed.

```
Admin
Physical Config Desktop Programming Attributes

Command Prompt
Reply from 172.16.0.2: bytes=32 time<1ms TTL=126
Reply from 172.16.0.2: bytes=32 time<1ms TTL=126

Ping statistics for 172.16.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 172.16.0.2

Pinging 172.16.0.2 with 32 bytes of data:

Reply from 172.16.0.2: bytes=32 time<1ms TTL=126
Reply from 172.16.0.2: bytes=32 time<1ms TTL=126
Reply from 172.16.0.2: bytes=32 time<1ms TTL=126
Reply from 172.16.0.2: bytes=32 time<1ms TTL=126

Ping statistics for 172.16.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 172.17.0.2

Pinging 172.17.0.2 with 32 bytes of data:

Request timed out.
Reply from 172.17.0.2: bytes=32 time<1ms TTL=126
Reply from 172.17.0.2: bytes=32 time<1ms TTL=126
Reply from 172.17.0.2: bytes=32 time<1ms TTL=126

Ping statistics for 172.17.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 172.18.0.2

Pinging 172.18.0.2 with 32 bytes of data:

Request timed out.
Reply from 172.18.0.2: bytes=32 time<1ms TTL=126
Reply from 172.18.0.2: bytes=32 time<1ms TTL=126
Reply from 172.18.0.2: bytes=32 time<1ms TTL=126

Ping statistics for 172.18.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Top