

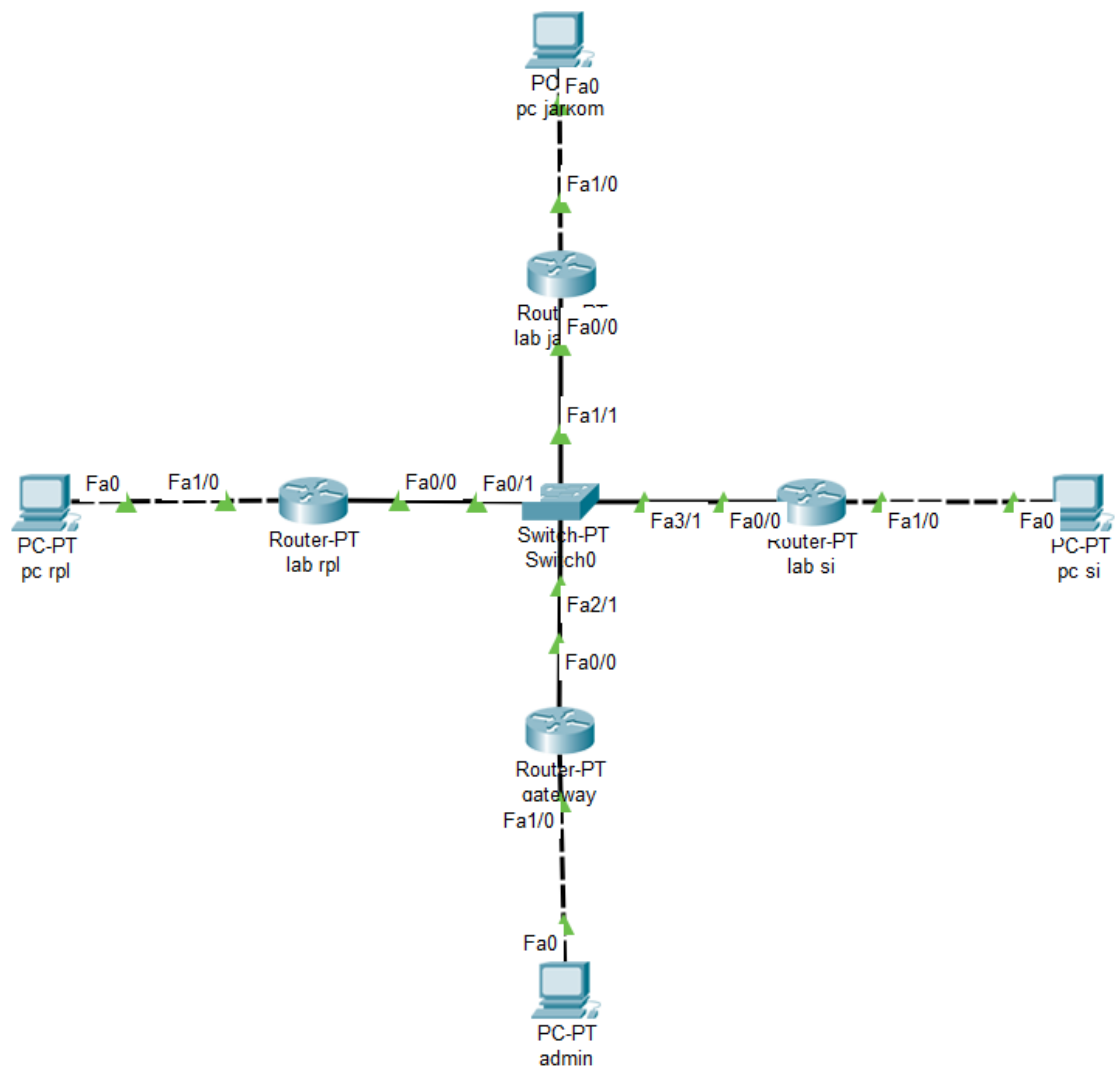
Nama : Pawitro Purbangkoro

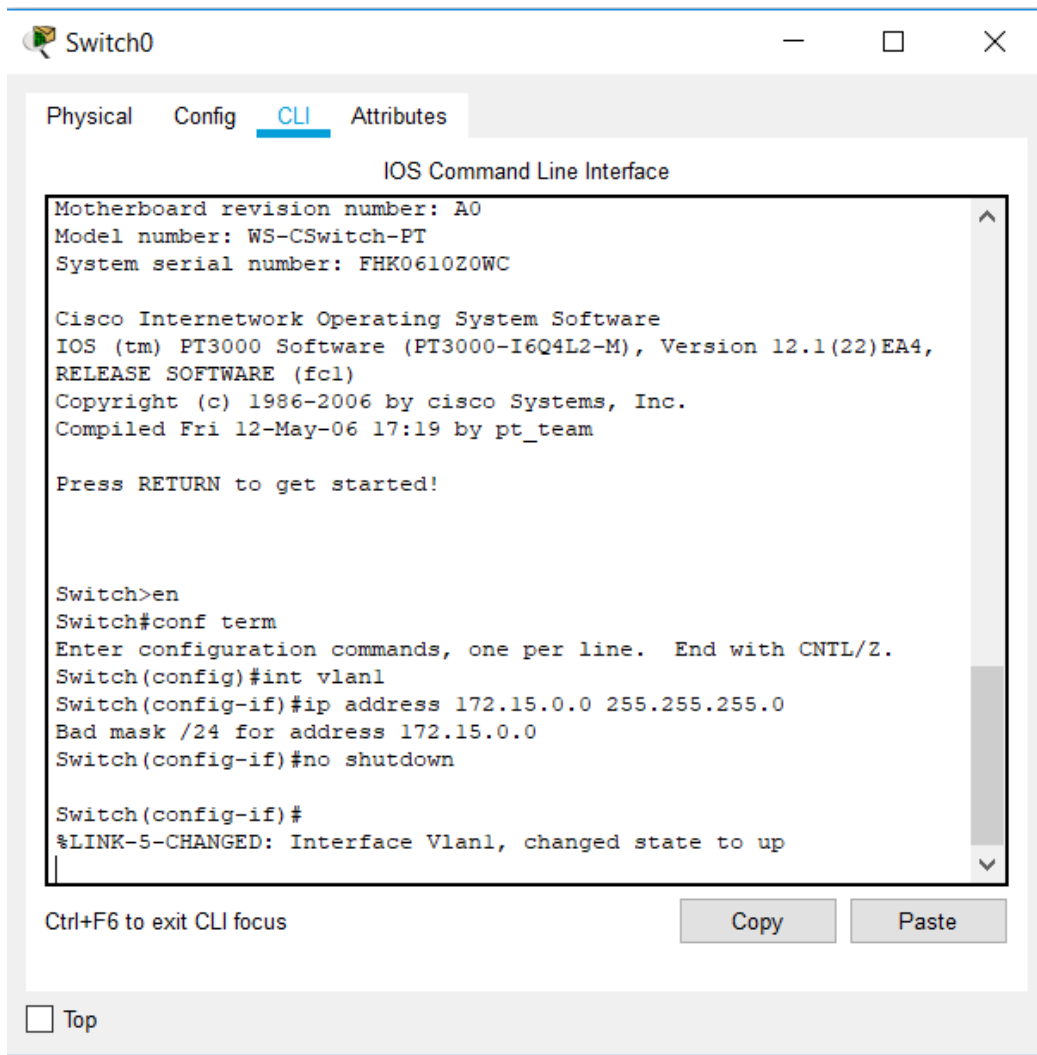
NIM : L200170045

Kelas : B

MODUL11

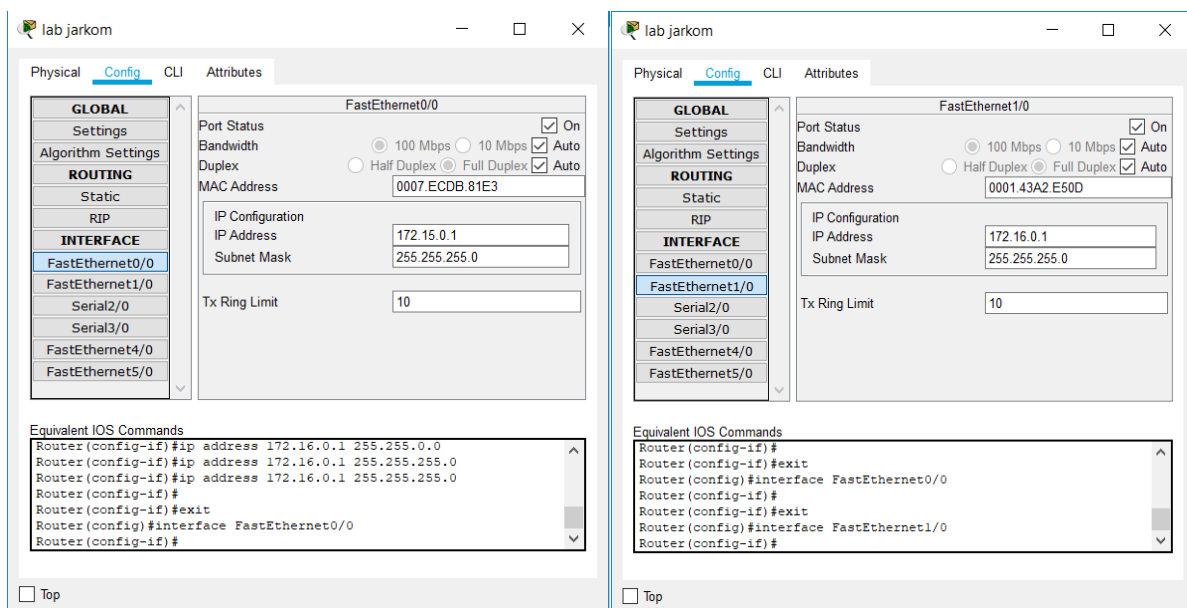
1. Buatlah topologi sesuai pada gambar berikut





Router

- Lab Jarkom



- Lab SI

lab si

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 0005.5ECA.EEBB

IP Configuration

IP Address 172.15.0.2

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up
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)#ip address 172.15.0.2 255.255.255.0
Router(config-if)#
```

☐ Top

lab si

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 0090.2B08.2EA8

IP Configuration

IP Address 172.17.0.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0,
changed state to up
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)#ip address 172.17.0.1 255.255.255.0
Router(config-if)#ip address 172.17.0.1 255.255.255.0
Router(config-if)#
```

☐ Top

- Lab rpl

lab rpl

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 0060.5CA6.12A2

IP Configuration

IP Address 172.15.0.3

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up
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)#ip address 172.15.0.3 255.255.255.0
Router(config-if)#
```

☐ Top

lab rpl

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 0001.C9BA.6043

IP Configuration

IP Address 172.18.0.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0,
changed state to up
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)#ip address 172.18.0.1 255.255.255.0
Router(config-if)#
```

☐ Top

- Gateway

gateway

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 0050.0FA6.1C0D

IP Configuration

IP Address 172.15.0.4

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up
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)#ip address 172.15.0.4 255.255.255.0
Router(config-if)#

```

☐ Top

gateway

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 000A.F32D.84D0

IP Configuration

IP Address 172.19.0.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```

Router(config-if)#ip address
% Incomplete command.
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)#ip address 172.19.0.1 255.255.255.0
Router(config-if)#ip address 172.19.0.1 255.255.255.0
Router(config-if)#

```

☐ Top

PC

pc jarkom

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.16.0.2

Subnet Mask 255.255.255.0

Default Gateway 172.15.0.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80:209:7CFF:FE66:B308

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MDS

Username

Password

☐ Top

pc si

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.17.0.2

Subnet Mask 255.255.255.0

Default Gateway 172.15.0.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80:202:4AFF:FE1B:BE26

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MDS

Username

Password

☐ Top

pc rpl

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.18.0.2

Subnet Mask 255.255.255.0

Default Gateway 172.15.0.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80:260:47FF:FE29:2B26

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MDS

Username

Password

☐ Top

admin

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.19.0.2

Subnet Mask 255.255.255.0

Default Gateway 172.15.0.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80:260:70FF:FE83:A39A

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

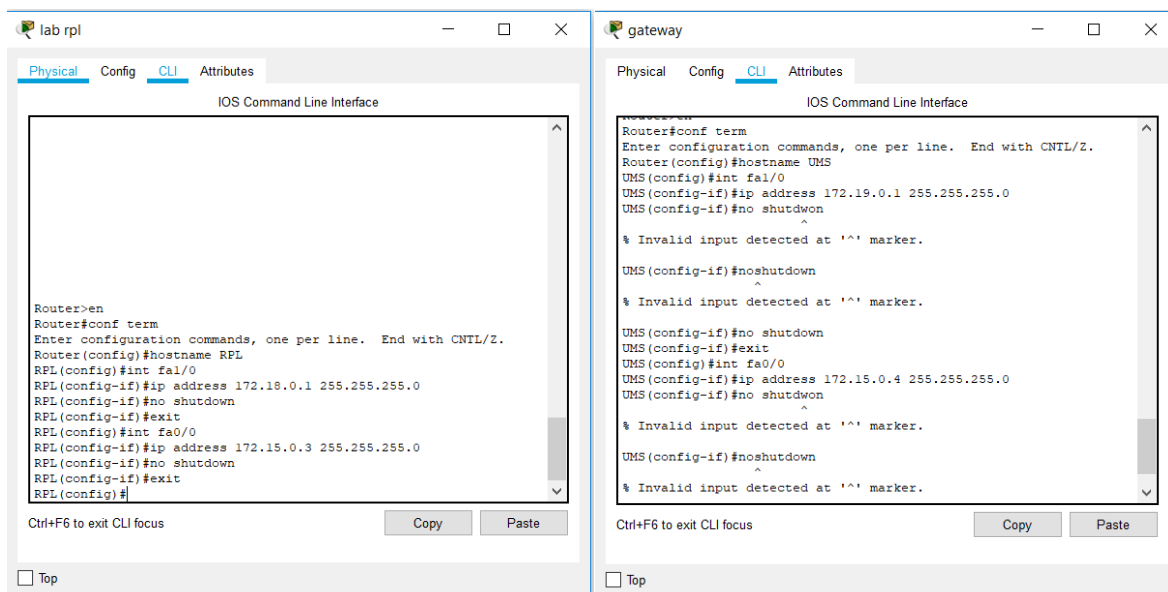
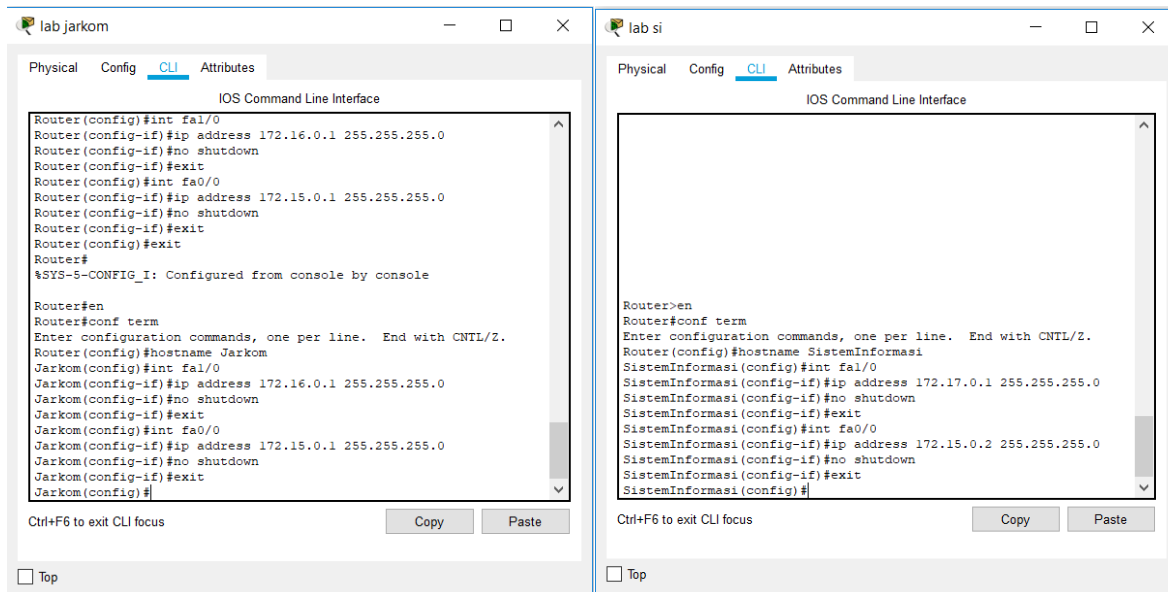
Authentication MDS

Username

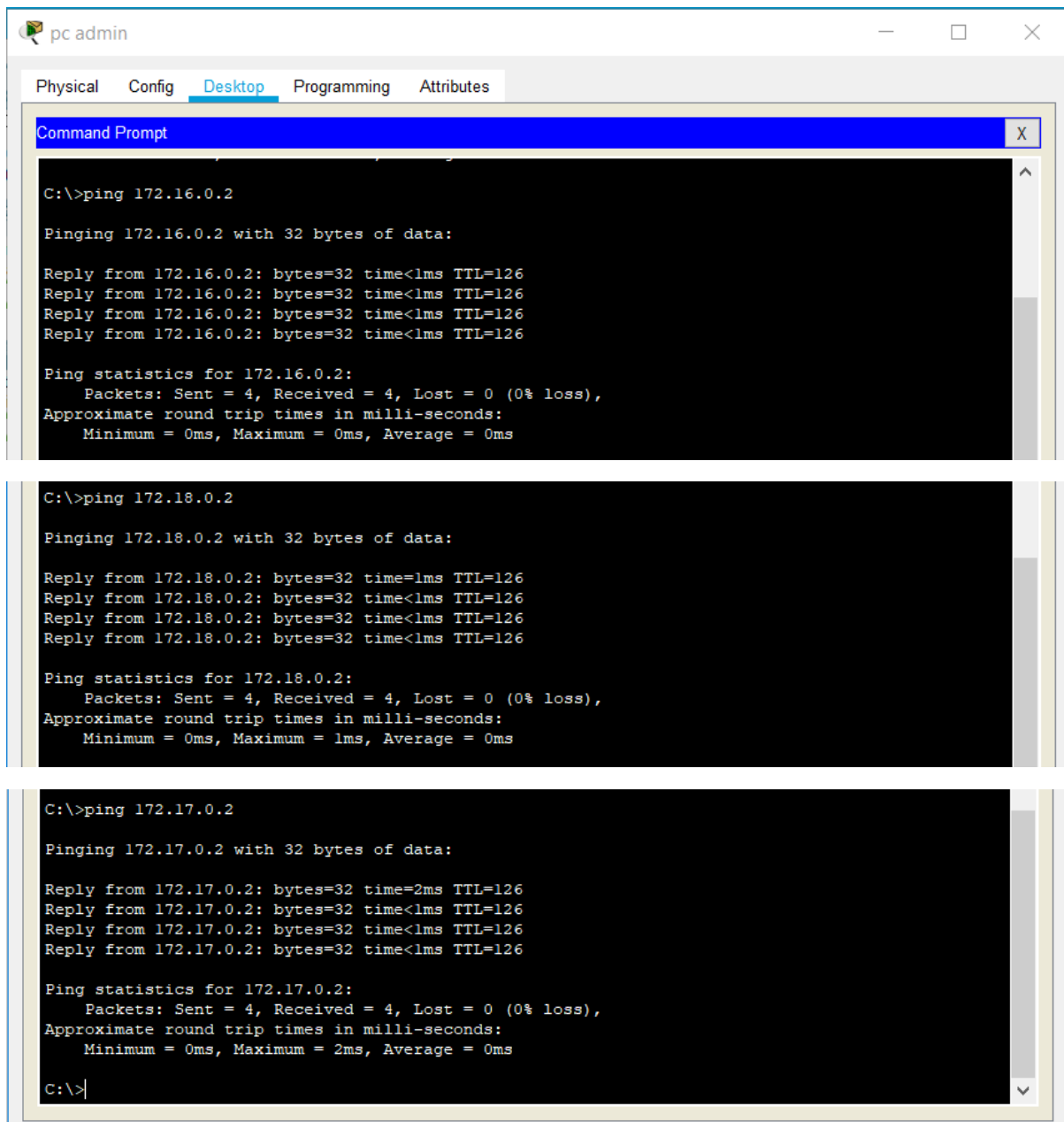
Password

☐ Top

2. Konfigurasi semua Router



3. Lakukan pengujian ICMP request (ping) untuk test koneksi



The image displays three sequential screenshots of a Windows Command Prompt window titled "pc admin". The window has tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes", with "Desktop" currently selected. Each screenshot shows the execution of a ping command to a specific IP address, followed by the resulting output.

Screenshot 1: Ping to 172.16.0.2

```
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
```

Screenshot 2: Ping to 172.18.0.2

```
C:\>ping 172.18.0.2

Pinging 172.18.0.2 with 32 bytes of data:

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
Reply from 172.18.0.2: bytes=32 time<1ms TTL=126

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

Screenshot 3: Ping to 172.17.0.2

```
C:\>ping 172.17.0.2

Pinging 172.17.0.2 with 32 bytes of data:

Reply from 172.17.0.2: bytes=32 time=2ms 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
Reply from 172.17.0.2: bytes=32 time<1ms TTL=126

Ping statistics for 172.17.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>|
```