

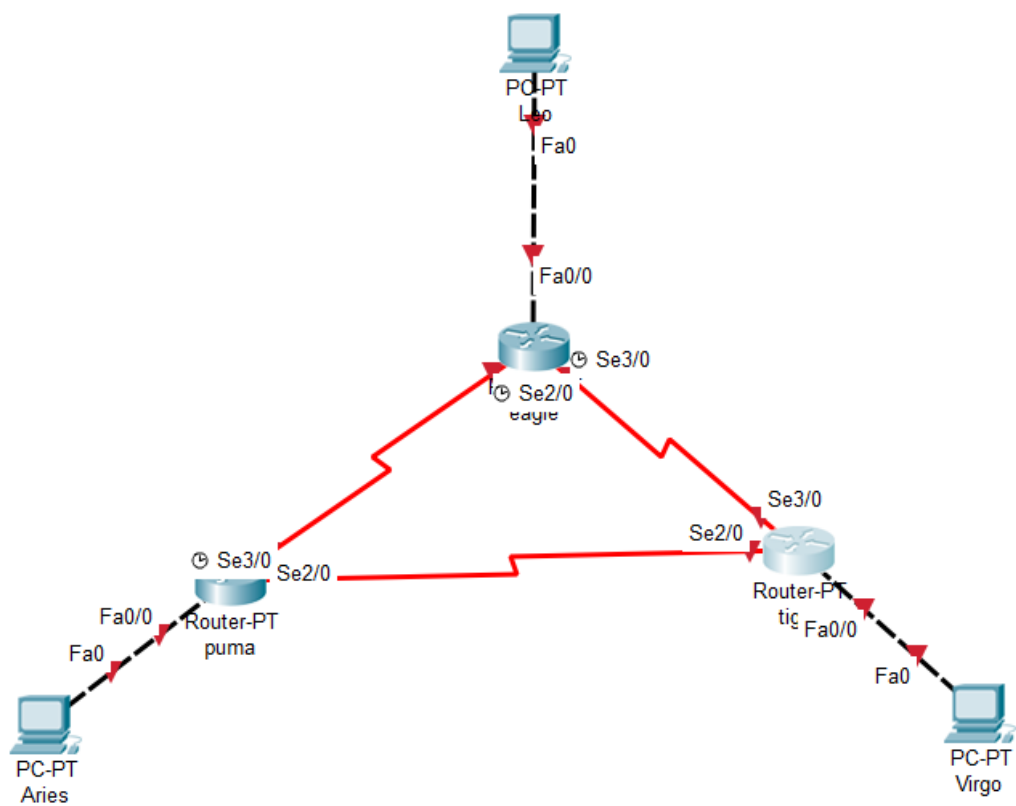
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## MODUL07

1. Buatlah topologi seperti berikut :



## 2. Konfigurasi masing-masing interface pada tiap router dengan alamat IP berikut :

- eagle

The screenshot shows the 'eagle' configuration window with the 'Config' tab selected. The 'FastEthernet0/0' interface is selected in the 'INTERFACE' list. The configuration fields are as follows:

- Port Status:** On (checked)
- Bandwidth:** 100 Mbps (selected), 10 Mbps (unchecked), Auto (checked)
- Duplex:** Half Duplex (selected), Full Duplex (unchecked), Auto (checked)
- MAC Address:** 000C.CF95.A23C
- IP Configuration:**
  - IP Address: 172.21.10.10
  - Subnet Mask: 255.255.255.0
- Tx Ring Limit:** 10

**Equivalent IOS Commands:**

```
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
```

The screenshot shows the 'eagle' configuration window with the 'Config' tab selected. The 'Serial2/0' interface is selected in the 'INTERFACE' list. The configuration fields are as follows:

- Port Status:** On (checked)
- Duplex:** Full Duplex (selected)
- Clock Rate:** 2000000
- IP Configuration:**
  - IP Address: 172.21.1.1
  - 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

Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
```

The screenshot shows the 'eagle' configuration window with the 'Config' tab selected. The 'Serial3/0' interface is selected in the 'INTERFACE' list. The configuration fields are as follows:

- Port Status:** On (checked)
- Duplex:** Full Duplex (selected)
- Clock Rate:** 2000000
- IP Configuration:**
  - IP Address: 172.21.2.1
  - Subnet Mask: 255.255.255.0
- Tx Ring Limit:** 10

**Equivalent IOS Commands:**

```
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial3/0
Router(config-if)#
```

The screenshot shows the 'eagle' CLI window with the 'CLI' tab selected. The 'IOS Command Line Interface' is displayed, showing the configuration commands for the routers:

```
Router#en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip router 172.21.20.0 255.255.255.0 172.21.1.2
^
% Invalid iip router 172.21.20.0 255.255.255.0 172.21.1.2ip
router 172.21.20.0 255.255.255.0 172.21.1.2ip route 172.21.20.0
255.255.255.0 172.21.1.2
Router(config)#ip route 172.21.30.0 255.255.255.0 172.21.2.3
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

- puma

puma

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 000D BD69 ACDA

IP Configuration

IP Address 172.21.20.20

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 172.21.20.20 255.255.255.0
Router(config-if)#ip address 172.21.20.20 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

☐ Top

puma

Physical **Config** CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

Serial2/0

Port Status ☒ On

Duplex ☒ Full Duplex

Clock Rate 2000000

IP Configuration

IP Address 172.21.1.2

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
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 Serial2/0
Router(config-if)#
```

☐ Top

puma

Physical **Config** CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

Serial3/0

Port Status ☒ On

Duplex ☒ Full Duplex

Clock Rate 1200

IP Configuration

IP Address 172.21.3.2

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
Router(config)#interface Serial3/0
Router(config-if)#
```

☐ Top

puma

Physical **Config** CLI Attributes

IOS Command Line Interface

```
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.1.1
Router(config)#ip route 172.21.30.0 255.255.255.0 172.21.3.3
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

- tiger

tiger

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 0004.9AB2.D23B

IP Configuration

IP Address 172.21.30.30

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)#
```

☐ Top

tiger

Physical **Config** CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

Serial2/0

Port Status ☒ On

Duplex ☒ Full Duplex

Clock Rate 2000000

IP Configuration

IP Address 172.21.3.3

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
```

☐ Top

tiger

Physical **Config** CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

Serial3/0

Port Status ☒ On

Duplex ☒ Full Duplex

Clock Rate 2000000

IP Configuration

IP Address 172.21.2.3

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial3/0
Router(config-if)#
```

☐ Top

tiger

Physical **Config** **CLI** Attributes

IOS Command Line Interface

```
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.2.1
Router(config)#ip route 172.21.20.0 255.255.255.0 172.21.3.2
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

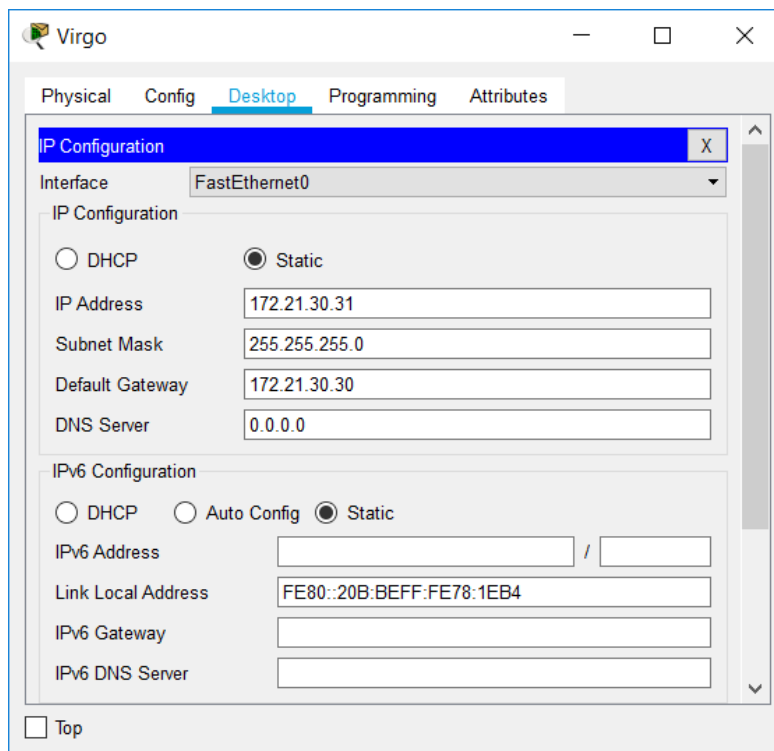
3. konfigurasi masing-masing PC dengan nama dan alamat IP berikut :

The screenshot shows the configuration window for a PC named 'Leo'. The 'Desktop' tab is selected. Under 'IP Configuration', the 'Static' radio button is chosen. The IP Address is set to 172.21.10.11, Subnet Mask to 255.255.255.0, Default Gateway to 172.21.10.10, and DNS Server to 0.0.0.0. The 'IPv6 Configuration' section shows 'Static' selected, with a Link Local Address of FE80::201:C9FF:FE12:9166. A 'Top' button is at the bottom left.

Field	Value
Interface	FastEthernet0
IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address	172.21.10.11
Subnet Mask	255.255.255.0
Default Gateway	172.21.10.10
DNS Server	0.0.0.0
IPv6 Configuration	
<input type="radio"/> DHCP	
<input type="radio"/> Auto Config	
<input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::201:C9FF:FE12:9166
IPv6 Gateway	
IPv6 DNS Server	

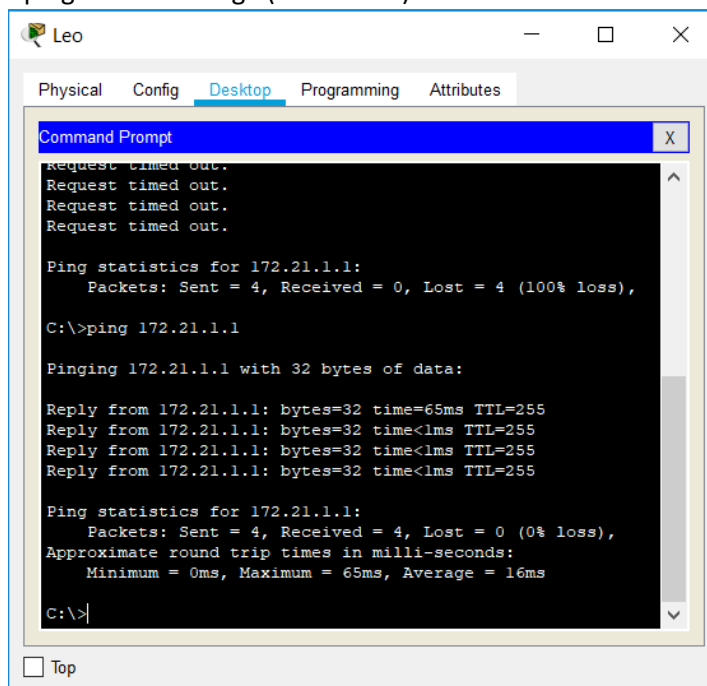
The screenshot shows the configuration window for a PC named 'Aries'. The 'Desktop' tab is selected. Under 'IP Configuration', the 'Static' radio button is chosen. The IP Address is set to 172.21.20.21, Subnet Mask to 255.255.255.0, Default Gateway to 172.21.20.20, and DNS Server to 0.0.0.0. The 'IPv6 Configuration' section shows 'Static' selected, with a Link Local Address of FE80::2D0:97FF:FEB5:8AA4. A 'Top' button is at the bottom left.

Field	Value
Interface	FastEthernet0
IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address	172.21.20.21
Subnet Mask	255.255.255.0
Default Gateway	172.21.20.20
DNS Server	0.0.0.0
IPv6 Configuration	
<input type="radio"/> DHCP	
<input type="radio"/> Auto Config	
<input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::2D0:97FF:FEB5:8AA4
IPv6 Gateway	
IPv6 DNS Server	

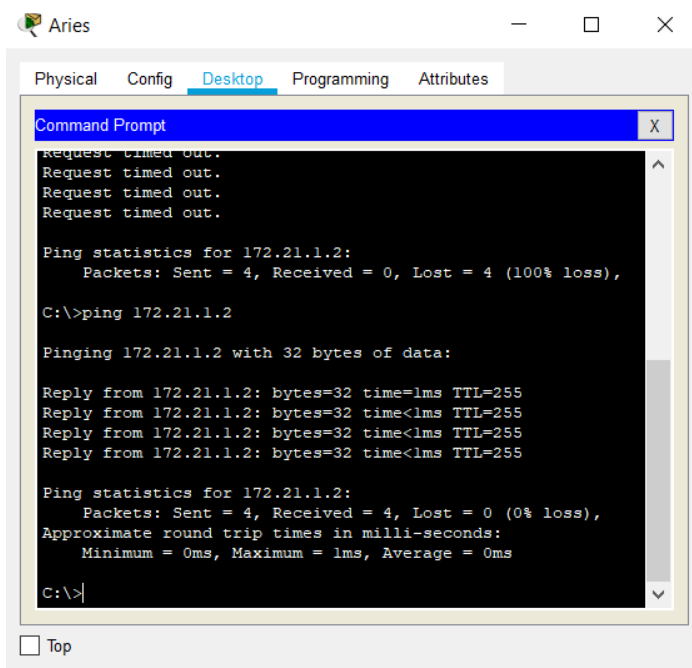


#### 4. Pengujian :

- ping PC Leo ke eagle(172.21.1.1)



- ping PC Aries ke puma(172.21.1.2)



```
Command Prompt
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.21.1.2

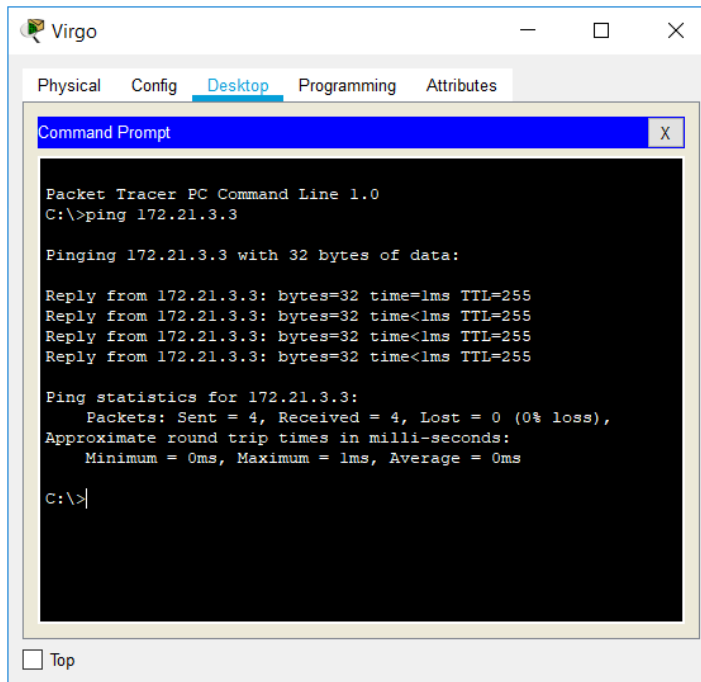
Pinging 172.21.1.2 with 32 bytes of data:

Reply from 172.21.1.2: bytes=32 time=1ms TTL=255
Reply from 172.21.1.2: bytes=32 time<1ms TTL=255
Reply from 172.21.1.2: bytes=32 time<1ms TTL=255
Reply from 172.21.1.2: bytes=32 time<1ms TTL=255

Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

- ping PC Virgo ke tiger(172.21.3.3)



```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.3.3

Pinging 172.21.3.3 with 32 bytes of data:

Reply from 172.21.3.3: bytes=32 time=1ms TTL=255
Reply from 172.21.3.3: bytes=32 time<1ms TTL=255
Reply from 172.21.3.3: bytes=32 time<1ms TTL=255
Reply from 172.21.3.3: bytes=32 time<1ms TTL=255

Ping statistics for 172.21.3.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

