

# Praktikum Jaringan Komputer

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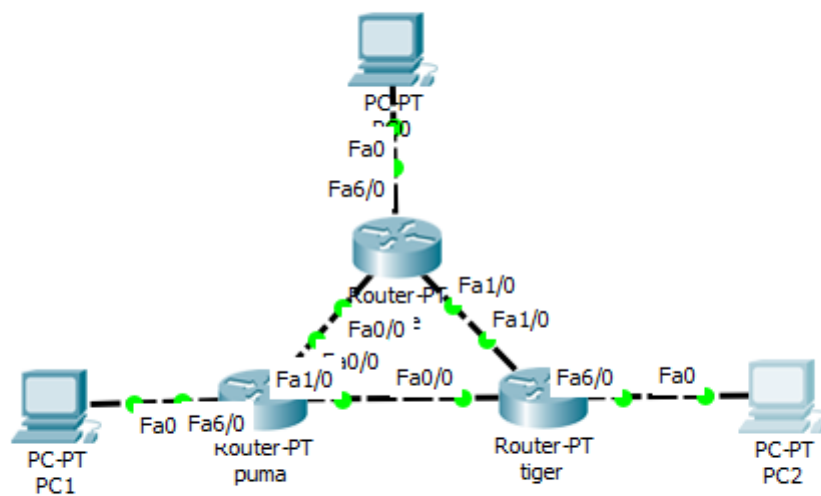
NIM : L200170035

Kelas : A

Modul : 7

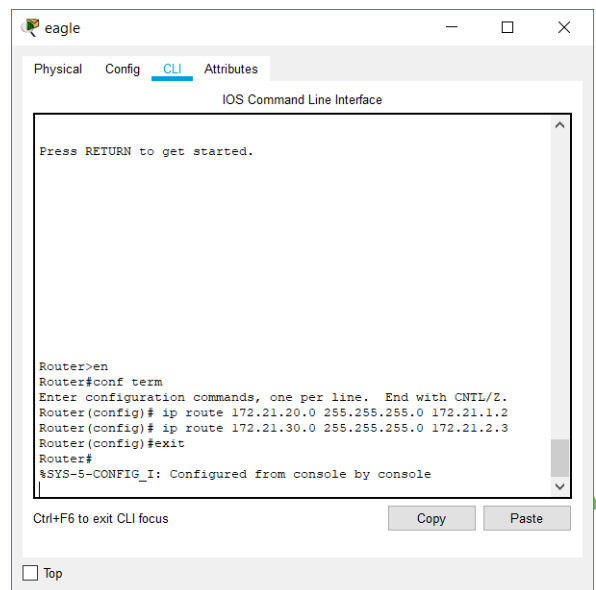
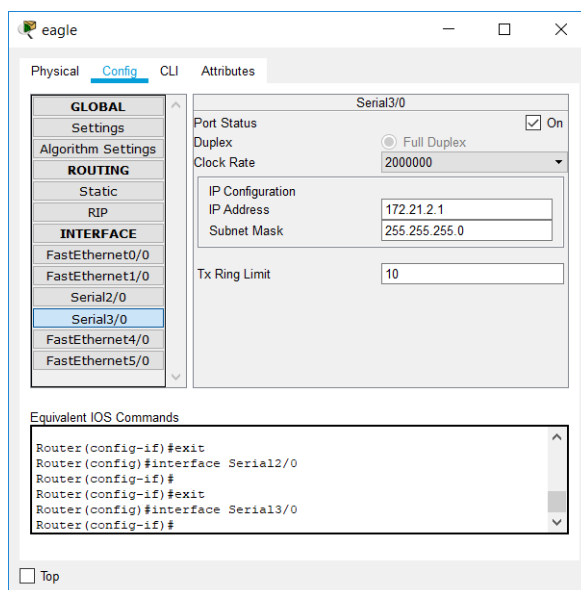
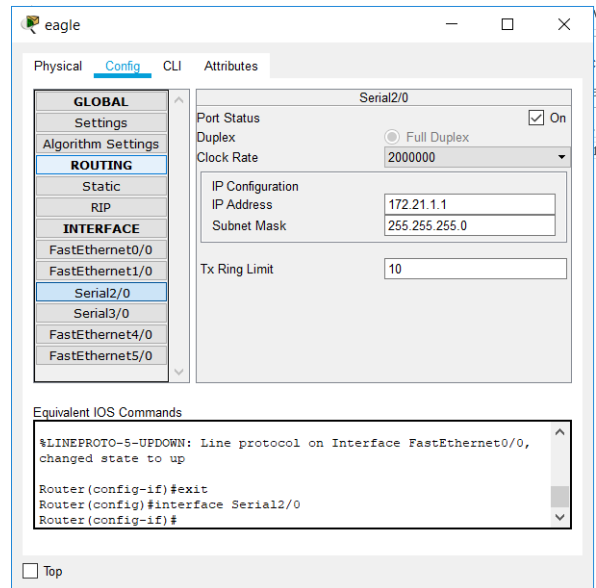
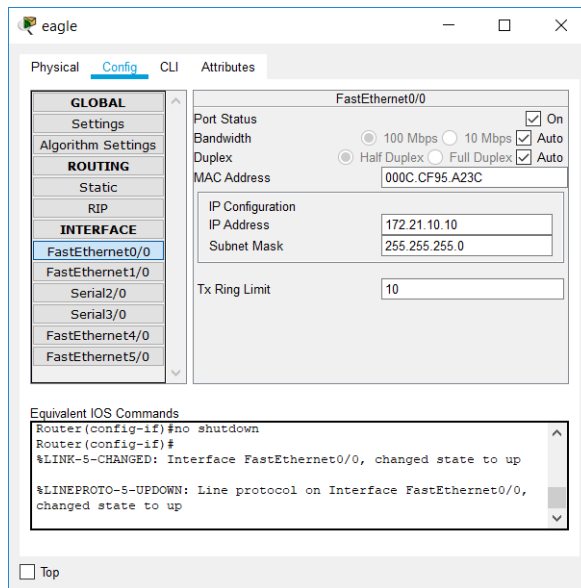
## MODUL 7

1. Buatlah topologi seperti pada gambar



## 2. Konfigurasi router dengan alamat IP :

❖ eagle



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

☐ Top

puma

Physical **Config** CLI Attributes

IOS Command Line Interface

Press RETURN to get started.

```
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
```

Ctrl+F6 to exit CLI focus

☐ Top

Copy Paste

❖ tiger

The screenshot shows the 'tiger' application window with the 'Config' tab selected. The left sidebar has a tree view with 'INTERFACE' expanded and 'FastEthernet0/0' selected. The main panel displays configuration for 'FastEthernet0/0'. The 'Port Status' section has 'On' checked. The 'Duplex' section has 'Full Duplex' selected and 'Auto' checked. The 'IP Configuration' section has 'IP Address' set to '172.21.30.30' and 'Subnet Mask' set to '255.255.255.0'. The 'Tx Ring Limit' is set to '10'. Below the configuration fields is a text area for 'Equivalent IOS Commands' containing 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)#
```

At the bottom left, there is a 'Top' button.

The screenshot shows the 'tiger' application window with the 'Config' tab selected. The left sidebar has a tree view with 'INTERFACE' expanded and 'Serial2/0' selected. The main panel displays configuration for 'Serial2/0'. The 'Port Status' section has 'On' checked. The 'Duplex' section has 'Full Duplex' selected. The 'Clock Rate' is set to '2000000'. The 'IP Configuration' section has 'IP Address' set to '172.21.3.3' and 'Subnet Mask' set to '255.255.255.0'. The 'Tx Ring Limit' is set to '10'. Below the configuration fields is a text area for 'Equivalent IOS Commands' containing the following 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)#
```

At the bottom left, there is a 'Top' button.

The screenshot shows the 'tiger' application window with the 'Config' tab selected. The left sidebar has a tree view with 'INTERFACE' expanded and 'Serial3/0' selected. The main panel displays configuration for 'Serial3/0'. The 'Port Status' section has 'On' checked. The 'Duplex' section has 'Full Duplex' selected. The 'Clock Rate' is set to '2000000'. The 'IP Configuration' section has 'IP Address' set to '172.21.2.3' and 'Subnet Mask' set to '255.255.255.0'. The 'Tx Ring Limit' is set to '10'. Below the configuration fields is a text area for 'Equivalent IOS Commands' containing the following 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)#
```

At the bottom left, there is a 'Top' button.

The screenshot shows the 'tiger' application window with the 'CLI' tab selected. The main panel displays the 'IOS Command Line Interface'. It contains a text area with the prompt 'Press RETURN to get started.' and a scrollable area showing the following commands and output:

```
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
```

At the bottom, there is a 'Ctrl+F6 to exit CLI focus' label and 'Copy' and 'Paste' buttons. At the bottom left, there is a 'Top' button.

3. Konfigurasi tiap PC dengan nama dan alamat IP :

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ 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

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::201:C9FF:FE12:9166

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ 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

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:97FF:FEB5:8AA4

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.30.31

Subnet Mask: 255.255.255.0

Default Gateway: 172.21.30.30

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::20B:BEFF:FE78:1EB4

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

#### 4. Percobaan pada command prompt

```
C:\>ping 172.21.10.11

Pinging 172.21.10.11 with 32 bytes of data:

Reply from 172.21.10.11: bytes=32 time=4ms TTL=128
Reply from 172.21.10.11: bytes=32 time<1ms TTL=128
Reply from 172.21.10.11: bytes=32 time=5ms TTL=128
Reply from 172.21.10.11: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.10.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 5ms, Average = 2ms

C:\>ping 172.21.20.21

Pinging 172.21.20.21 with 32 bytes of data:

Reply from 172.21.20.21: bytes=32 time=1ms TTL=126
Reply from 172.21.20.21: bytes=32 time=1ms TTL=126
Reply from 172.21.20.21: bytes=32 time=3ms TTL=126
Reply from 172.21.20.21: bytes=32 time=1ms TTL=126

Ping statistics for 172.21.20.21:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 1ms

C:\>ping 172.21.30.31

Pinging 172.21.30.31 with 32 bytes of data:

Reply from 172.21.30.31: bytes=32 time=6ms TTL=126
Reply from 172.21.30.31: bytes=32 time=3ms TTL=126
Reply from 172.21.30.31: bytes=32 time=5ms TTL=126
Reply from 172.21.30.31: bytes=32 time=3ms TTL=126

Ping statistics for 172.21.30.31:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 6ms, Average = 4ms
```

☐ Top