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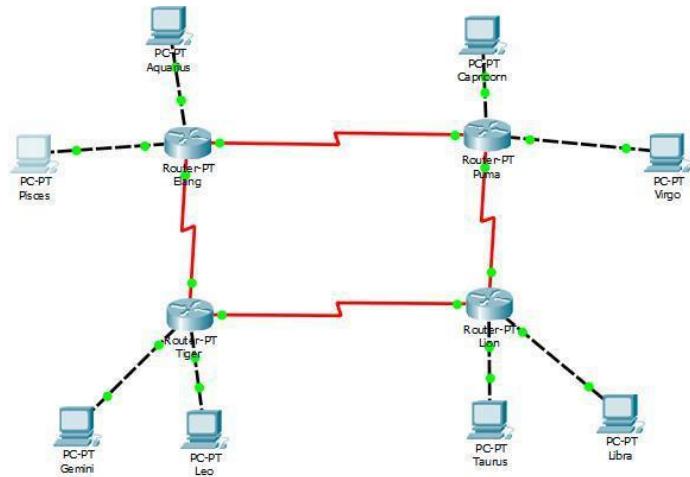
NIM : L200170182

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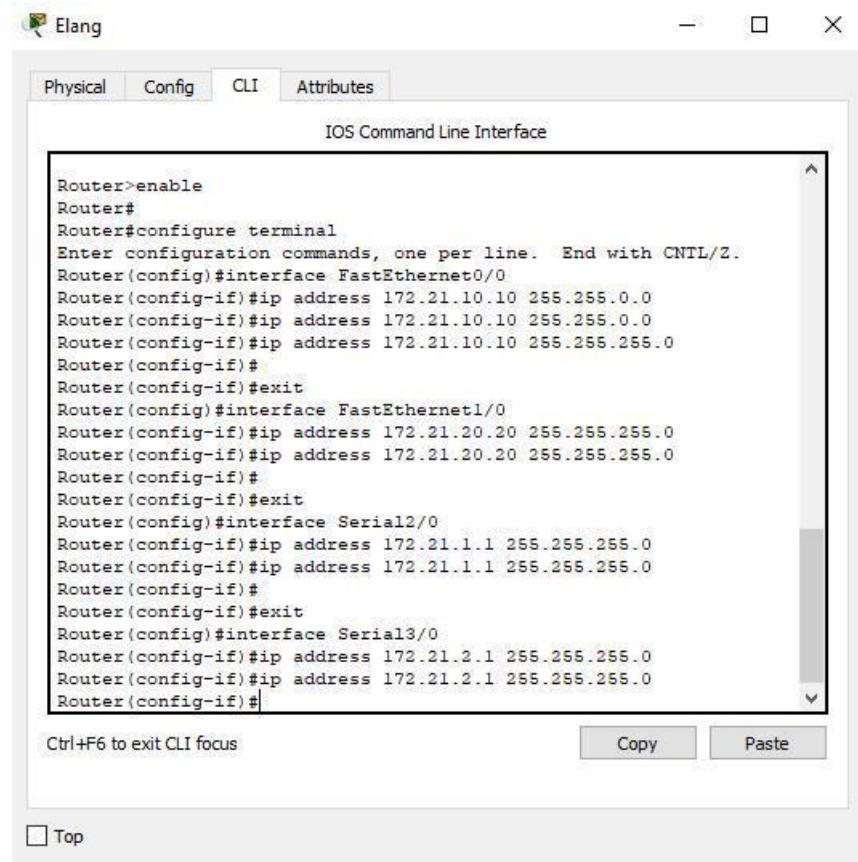
Laporan Praktikum Jaringan Komputer

Tugas Modul 7

1. Gambar Topologi



2. Konfigurasi masing masing router.



The screenshot shows the Elang software interface with the title bar "Elang". Below the title bar is a tab bar with four tabs: "Physical", "Config", "CLI", and "Attributes". The "CLI" tab is selected, and the window title is "IOS Command Line Interface". The main area of the window displays the following configuration 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)#ip address 172.21.10.10 255.255.0.0
Router(config-if)#ip address 172.21.10.10 255.255.0.0
Router(config-if)#ip address 172.21.10.10 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
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 Serial2/0
Router(config-if)#ip address 172.21.1.1 255.255.255.0
Router(config-if)#ip address 172.21.1.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial3/0
Router(config-if)#ip address 172.21.2.1 255.255.255.0
Router(config-if)#ip address 172.21.2.1 255.255.255.0
Router(config-if)#

```

At the bottom left of the CLI window, there is a status message: "Ctrl+F6 to exit CLI focus". At the bottom right, there are two buttons: "Copy" and "Paste". Below the CLI window, there is a small checkbox labeled "Top".

Puma

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#no ip address
Router(config-if)#ip address 172.21.20.10 255.255.0.0
Router(config-if)#ip address 172.21.20.10 255.255.0.0
Router(config-if)#ip address 172.21.20.10 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#ip address 172.21.30.20 255.255.255.0
Router(config-if)#ip address 172.21.30.20 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#
Router(config-if)#exit
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0
Router(config-if)#ip address 172.21.1.3 255.255.255.0
Router(config-if)#
Router(config-if)#
Ctrl+F6 to exit CLI focus
```

Copy Paste

Top

Tiger

Physical Config CLI Attributes

IOS Command Line Interface

```
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 172.21.30.10 255.255.0.0
Router(config-if)#ip address 172.21.30.10 255.255.0.0
Router(config-if)#ip address 172.21.30.10 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#ip address 172.21.40.20 255.255.255.0
Router(config-if)#ip address 172.21.40.20 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0
Router(config-if)#ip address 172.21.1.3 255.255.255.0
Router(config-if)#ip address 172.21.1.3 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0
Router(config-if)#ip address 172.21.4.1 255.255.255.0
Router(config-if)#ip address 172.21.4.1 255.255.255.0
Router(config-if)#
Ctrl+F6 to exit CLI focus
```

Copy Paste

Top

Lion

Physical Config CLI Attributes

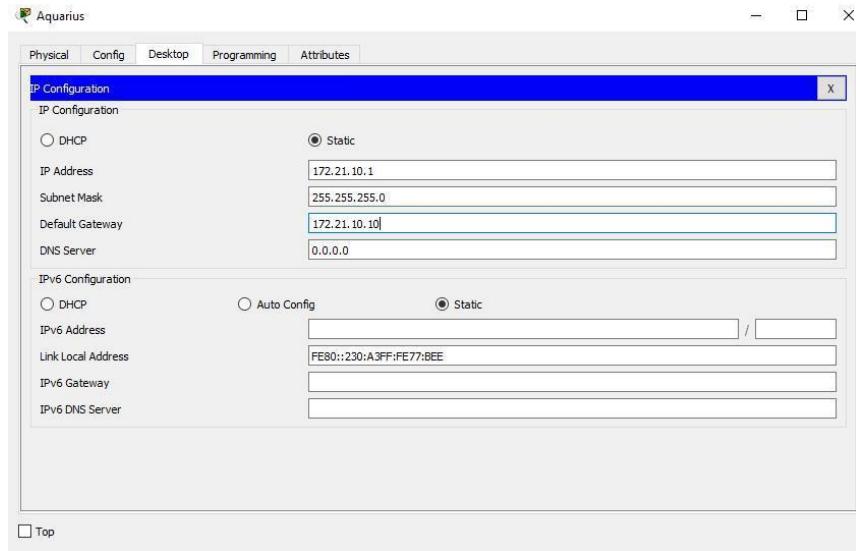
IOS Command Line Interface

```
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 172.21.40.10 255.255.0.0
Router(config-if)#ip address 172.21.40.10 255.255.0.0
Router(config-if)#ip address 172.21.40.10 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#ip address 172.21.50.20 255.255.255.0
Router(config-if)#ip address 172.21.50.20 255.255.255.0
Router(config-if)#ip address 172.21.50.20 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#ip address 172.21.1.4 255.255.255.0
Router(config-if)#ip address 172.21.1.4 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial3/0
Router(config-if)#ip address 172.21.5.1 255.255.255.0
Router(config-if)#ip address 172.21.5.1 255.255.255.0
Router(config-if)#
Ctrl+F6 to exit CLI focus
```

Top

Copy Paste

3. Konfigurasi pada setiap PC.



4. Cek koneksi

dari PC Aquarius ke Router Elang.

```
C:\>ping 172.21.10.10

Pinging 172.21.10.10 with 32 bytes of data:

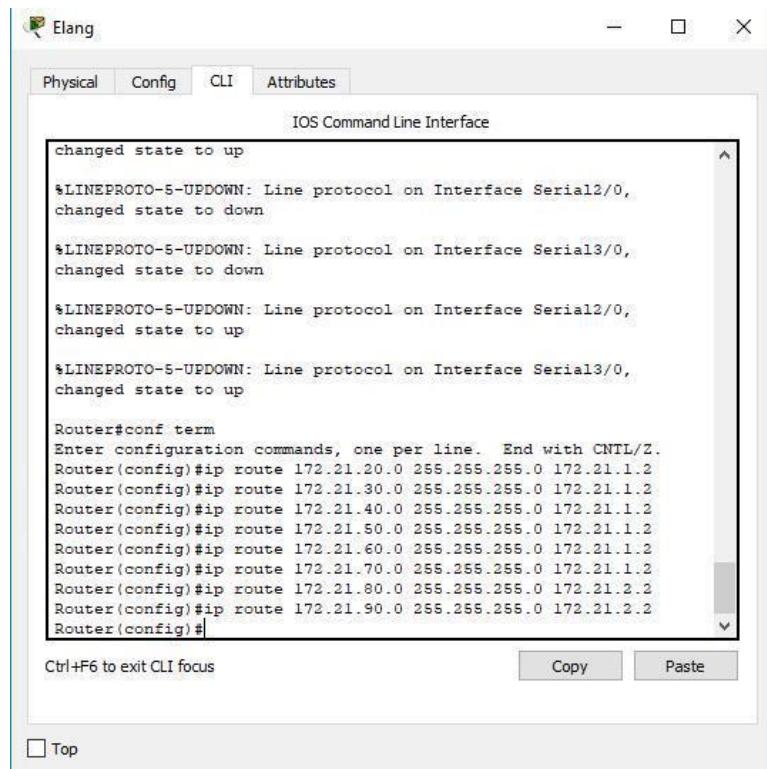
Reply from 172.21.10.10: bytes=32 time=108ms TTL=255
Reply from 172.21.10.10: bytes=32 time<lms TTL=255
Reply from 172.21.10.10: bytes=32 time<lms TTL=255
Reply from 172.21.10.10: bytes=32 time<lms TTL=255

Ping statistics for 172.21.10.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 108ms, Average = 27ms
```

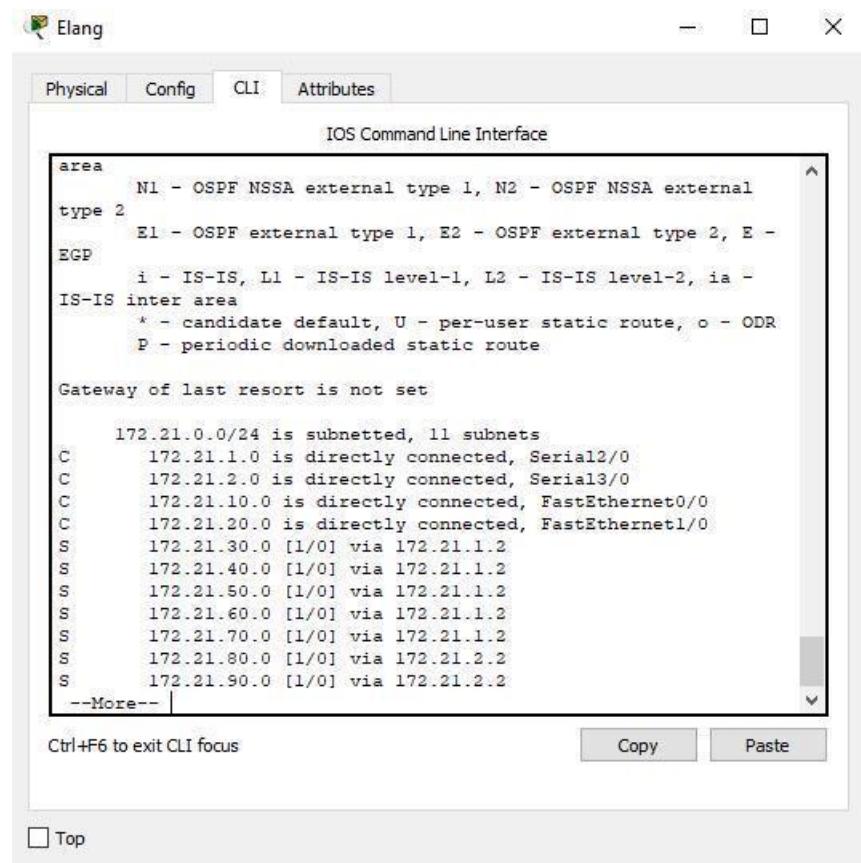
dari Router Elang ke Router Puma.

```
Router#ping 172.21.1.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.1.2, timeout is 2
seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max =
1/3/11 ms
```

5. Melakukan routing



6. Show ip route



```
area      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external
type 2      E1 - OSPF external type 1, E2 - OSPF external type 2, E -
EGP      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia -
IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

    172.21.0.0/24 is subnetted, 11 subnets
C        172.21.1.0 is directly connected, Serial2/0
C        172.21.2.0 is directly connected, Serial3/0
C        172.21.10.0 is directly connected, FastEthernet0/0
C        172.21.20.0 is directly connected, FastEthernet1/0
S        172.21.30.0 [1/0] via 172.21.1.2
S        172.21.40.0 [1/0] via 172.21.1.2
S        172.21.50.0 [1/0] via 172.21.1.2
S        172.21.60.0 [1/0] via 172.21.1.2
S        172.21.70.0 [1/0] via 172.21.1.2
S        172.21.80.0 [1/0] via 172.21.2.2
S        172.21.90.0 [1/0] via 172.21.2.2
--More-- |
```

Ctrl+F6 to exit CLI focus

Top

7. PING PC Pisces ke Libra

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.50.1

Pinging 172.21.50.1 with 32 bytes of data:

Request timed out.
Reply from 172.21.50.1: bytes=32 time=13ms TTL=125
Reply from 172.21.50.1: bytes=32 time=5ms TTL=125
Reply from 172.21.50.1: bytes=32 time=13ms TTL=125

Ping statistics for 172.21.50.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 5ms, Maximum = 13ms, Average = 10ms
```