COMPUTER NETWORK



Disusun oleh:

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L200183070

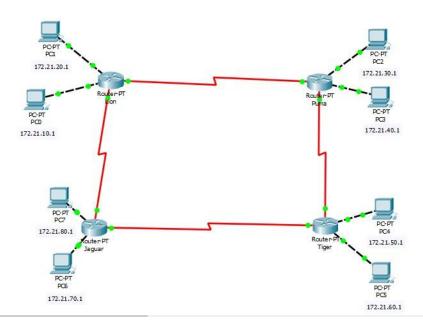
INFORMATION STUDY PROGRAM

COMMUNICATION AND INFORMATION FACULTY

MUHAMMADIYAH UNIVERSITY OF SURAKARTA

Tugas

1. Rancangan Jaringan



2. Melakukan konfigurasi ip router

a. Lion

```
Router>enable
Router$\text{configuration commands}, one per line. End with CNTL/Z.
Router(configy) int fa 0/0
Router(config-if) $\pm$ in address 172.21.10.10 255.255.255.0
Router(config-if) $\pm$ in shutdown
Router(config-if) $\pm$ in shutdown
Router(config-if) $\pm$ in address 172.21.20.20 255.255.255.0
Router(config-if) $\pm$ in shutdown
```

b. Puma

```
Router$conf term
Enter configuration commands, one per line. End with CNTL/2.
Router(config) #in fs 0/0
Router(config-if) #ip sddress 172.21.30.30 255.255.255.0
Router(config-if) #in shutdown
Router(config-if) #in fs 1/0
Router(config-if) #in p sddress 172.21.40.40 255.255.255.0
Router(config-if) #in shutdown
Router(config-if) #in s shutdown
Router(config-if) #in s sddress 172.21.1.2 255.255.255.0
Router(config-if) #in sddress 172.21.1.2 255.255.255.0
Router(config-if) #in sddress 172.21.1.2 255.255.255.0
Router(config-if) #in sddress 172.21.3.1 255.255.255.0
Router(config-if) #in sddress 172.21.3.1 255.255.255.0
Router(config-if) #in shutdown
```

c. Tiger

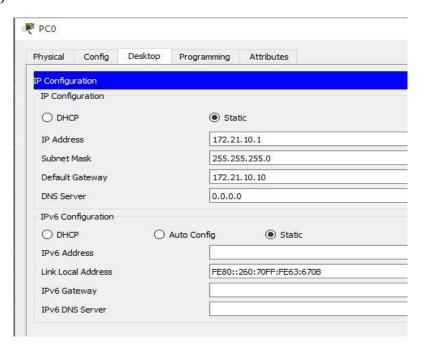
```
Router/enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)*int fa 0/0
Router(config)*int fa 0/0
Router(config)*int fa 1/0
Router(config)*iint fa 1/0
Router(config)*iiint fa 1/0
Router(config)*iiint fa 1/0
Router(config)*iiint oshutdown
```

d. Jaguar

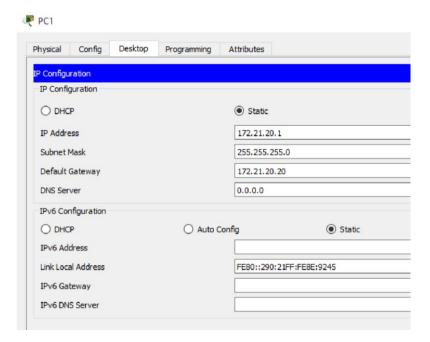
```
Router>enable
Router$conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)*int fa 0/0
Router(config-if)*ip address 172.21.70.70 255.255.255.0
Router(config-if)*int fa 1/0
Router(config-if)*int fa 1/0
Router(config-if)*int fa 1/0
Router(config-if)*in shutdown
Router(config-if)*in shutdown
Router(config-if)*int se 2/0
Router(config-if)*int se 2/0
Router(config-if)*int se 2/0
Router(config-if)*in shutdown
Router(config-if)*in shutdown
Router(config-if)*int se 3/0
Router(config-if)*int se 3/0
Router(config-if)*int se 3/0
Router(config-if)*in shutdown
Router(config-if)*sho shutdown
```

3. Konfigurasi pada PC

a. PC 0



b. PC 1

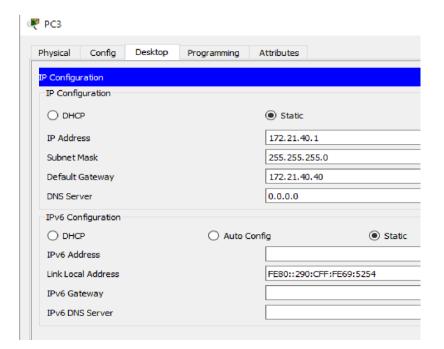


c. PC 2

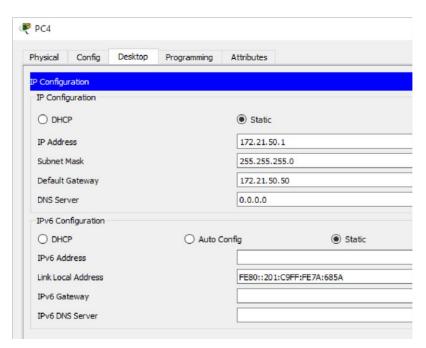
sical	Config	Desktop	Programming	Attributes		
Configura	tion					
P Configur	ration					
O DHCP				Static		
IP Address				172.21.30.1		
Subnet Mask				255.255.255.0		
Default Gateway				172.21.30.30		
DNS Server			0.0.0.0			
IPv6 Config	guration					
O DHCP			○ Auto Config Station		Static	
IPv6 Addre	ess					
Link Local Address				FE80::2D0:58F	F:FED7:5136	
IPv6 Gatev	way					
IPv6 DNS S	Server					

.

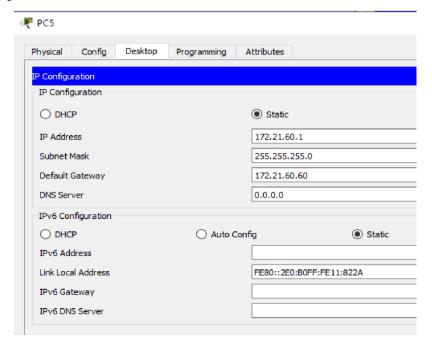
d. PC 3



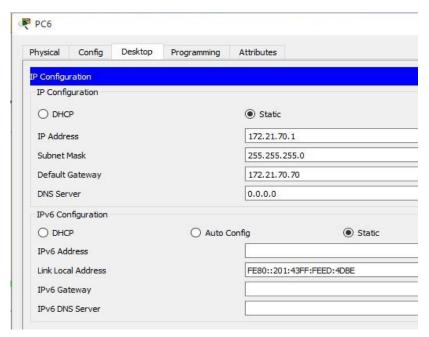
e. PC 4



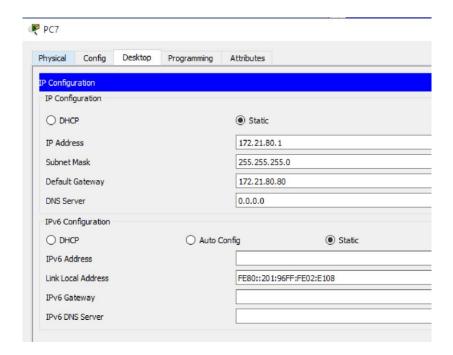
f. PC 5



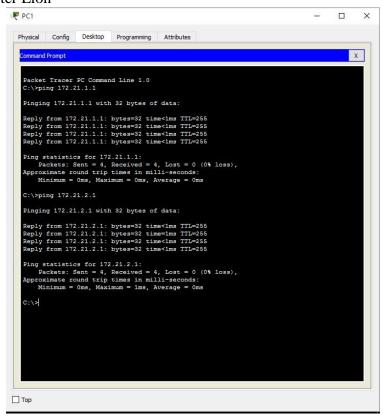
g. PC 6



h. PC 7



4. Melakukan cek koneksi Dari PC 1 ke router Lion



5. Melakukan routing

• Lion

```
Router>enable
Routerfeonf term
Enter configuration commands, one per line. End with CHTL/2.
Enter configuration commands, one per line. End with CHTL/2.
Enter configuration = 172.21.30.0 255.255.255.0 172.21.1.2
Router(config) #ip route 172.21.40.0 255.255.255.0 172.21.1.2
Router(config) #ip route 172.21.50.0 255.255.255.0 172.21.1.2
Router(config) #ip route 172.21.60.0 255.255.255.0 172.21.1.2
Router(config) #ip route 172.21.70.0 255.255.255.0 172.21.1.2
Router(config) #ip route 172.21.80.0 255.255.255.0 172.21.1.2
Router(config) #
```

Puma

```
Router>enable
Routerfconf term
Enter configuration commands, one per line. End with CNTL/2.
Router(config) #ip route 172.21.10.0 255.255.255.0 172.21.1.1
Router(config) #ip route 372.21.20.0 255.255.05.255.0 172.21.1.1
Router(config) #ip route 172.21.50.0 255.255.255.0 172.21.3.2
Router(config) #ip route 172.21.50.0 255.255.255.0 172.21.3.2
Router(config) #ip route 172.21.70.0 255.255.255.0 172.21.3.2
Router(config) #ip route 172.21.70.0 255.255.255.0 172.21.3.2
Router(config) #ip route 172.21.80.0 255.255.255.0 172.21.3.2
```

Tiger

```
Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #ip route 172.21.10.0 255.255.255.0 172.21.4.2
Router(config) #ip route 172.21.20.0 255.255.255.0 172.21.4.2
Router(config) #ip route 172.21.30.0 255.255.255.0 172.21.3.1
Router(config) #ip route 172.21.40.0 285.255.255.0 172.21.3.1
Router(config) #ip route 172.21.70.0 255.255.255.0 172.21.3.1
Router(config) #ip route 172.21.70.0 255.255.255.0 172.21.4.2
Router(config) #ip route 172.21.80.0 255.255.255.0 172.21.4.2
```

Jaguar

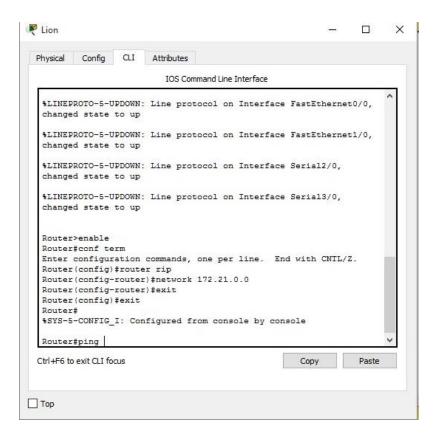
```
Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.2.1
Router(config)#ip route 172.21.20.0 255.255.255.0 172.21.2.1
Router(config)#ip route 172.21.20.0 255.255.255.0 172.21.2.1
Router(config)#ip route 172.21.40.0 255.255.255.0 172.21.2.1
Router(config)#ip route 172.21.40.0 255.255.255.0 172.21.2.1
Router(config)#ip route 172.21.50.0 255.255.255.0 172.21.4.1
Router(config)#ip route 172.21.60.0 255.255.255.0 172.21.4.1
```

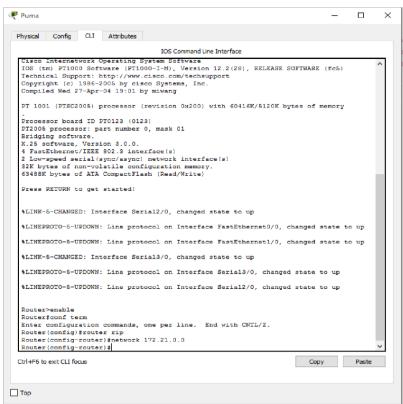
6. Melakukan dari PC 0 ke PC 4

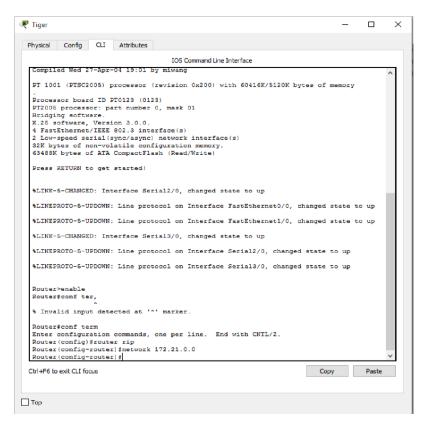
```
PC0
                                                                                                         Desktop
  Physical
             Config
                                  Programming
                                                 Attributes
    Command Prompt
                                                                                                              X
   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
    C:\>
```

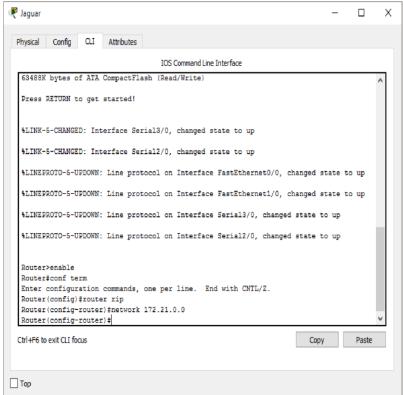
RIP

Melakukan konfigurasi ip dan routing









IGRP

Melakukan konfigurasi ip dan routing secara otomatis

