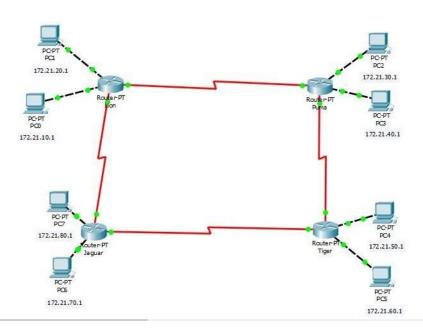
Nama : Chandika Aulia NIM : L200180097

Kelas: C

# **Praktikum Jarkom Modul 7**

#### 1. Rancangan Jaringan



# 2. Melakukan konfigurasi ip router

#### a. Lion

```
Router>enable
Router$\text{configuration commands, one per line. End with CNTL/Z.}
Router(config)\delta in fa 0/0
Router(config-if)\delta in address 172.21.10.10 255.255.255.0
Router(config-if)\delta in shutdown
Router(config-if)\delta in fa 1/0
Router(config-if)\delta in fa 1/0
Router(config-if)\delta in shutdown
Router(config-if)\delta in shutdown
Router(config-if)\delta in shutdown
Router(config-if)\delta in shutdown
Router(config-if)\delta in the 2/0
Router(config-if)\delta in the 2/0
Router(config-if)\delta in darks 172.21.1.1 255.255.255.0
Router(config-if)\delta in shutdown
```

#### b. Puma

```
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fs 0/0
Router(config)#int fs 0/0
Router(config-if)#ip address 172.21.30.30 255.255.255.0
Router(config-if)#in shutdown
Router(config-if)#int fs 1/0
Router(config-if)#ind address 172.21.40.40 255.255.255.0
Router(config-if)#int se 2/0
Router(config-if)#int se 2/0
Router(config-if)#int se 3/0
Router(config-if)#int se 3/0
Router(config-if)#ip address 172.21.1.2 255.255.255.0
Router(config-if)#ip address 172.21.3.1 255.255.255.0
Router(config-if)#ip address 172.21.3.1 255.255.255.0
Router(config-if)#no shutdown
```

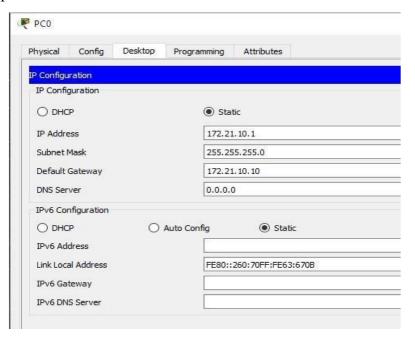
# c. Tiger

```
Router=configuration commands, one per line. End with CNTL/Z.
Router (config)=fine fa 0/0
Router(config-if)=fine shutdown
```

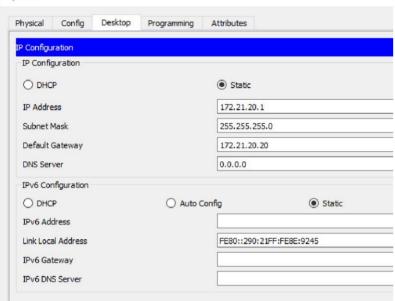
## d. Jaguar

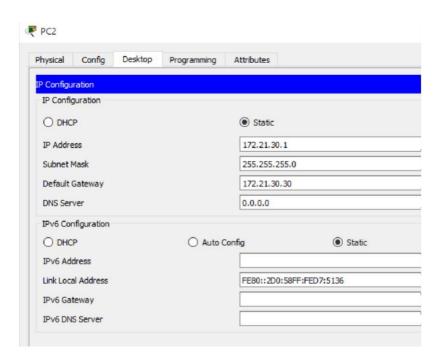
```
Router>enable
Router$conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #int fa 0/0
Router(config-if) #in address 172.21.70.70 255.255.255.0
Router(config-if) #in shutdown
Router(config-if) #int fa 1/0
Router(config-if) #int fa 1/0
Router(config-if) #int se 2/0
Router(config-if) #int se 2/0
Router(config-if) #int se 2/0
Router(config-if) #in address 172.21.4.2 255.255.255.0
Router(config-if) #int se 2/0
Router(config-if) #int se 3/0
```

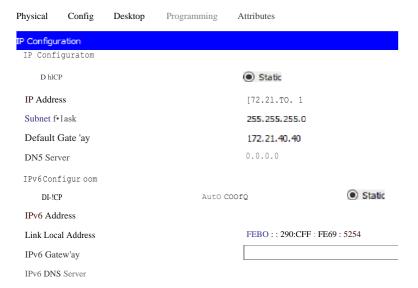
# 3. Konfigurasi pada PC





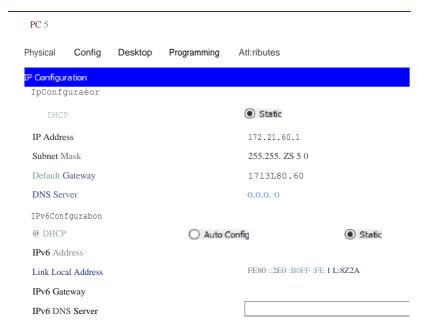






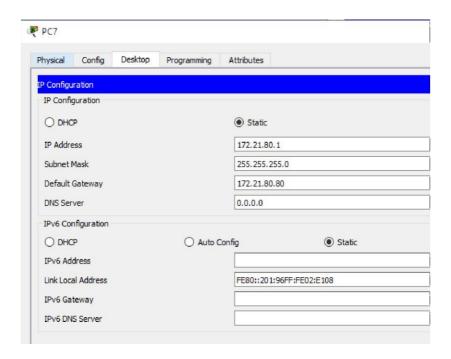


Physical	Config	Desktop	Programme	Attnbutes					
IP Configuration									
lPConfi	guraéon								
O DHCP				<ul><li>Static</li></ul>					
IP Address				L72,21,50.\					
Subnet Mask				255.255Z55%					
Default Gateway			172.21.50.50						
DNSSecvec			0.0.0.0						
IPv6ConWqu aeon									
○ DHCP		O Auto Co	onfig	<ul><li>Static</li></ul>					
IPv6 Add	lress								
Lb Local Address				.FT-BO::201:C9F -:F-£7A:68SA					
IPv6Gateway									
IPv6 DNS Server									



## ₹ PC6

Physical	'Zonfig	Desktop	Programming	Attributes				
IP Configuration								
IP Eonfgurator								
DHCP				<ul><li>Static</li></ul>				
IP Address				172.21.70.1				
'2ubnet Mask				255. 255.255.0				
Default Gateway				1				
DNS Server				0000				
IPv6 Confguratom								
DHCP			AL!tiDfl	OflfQ	<ul><li>Static</li></ul>			
IPv6 Add	dress							
Link Local Address			FE00: : Z01:43fiF:FEE0:4DBE					
IPv6 Gateway								
IPv6 ONS Server								



4. Melakukan cek koneksi dari PC 1 ke router Lion

```
Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
C:\Dping 172.21.1.1 with 32 bytes of data:
Reply from 172.21.1.1: bytes=32 time<1ms TIL=255
Reply from 172.21.1.1: bytes=32 time<1ms TIL=255
Reply from 172.21.1.1: bytes=32 time<1ms TIL=255
Reply from 172.21.21.1: bytes=32 time<1ms TIL=255
Reply from 172.21.2.1: bytes=32 time<1ms TIL=255
Reply from 172.31.2.1: bytes=32 time<1m
```

# 5. Melakukan routing

• Lion

```
Router>enable
Routersconf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 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)#ip route 172.21.80.0 255.255.255.0 172.21.1.2
```

• Puma

```
Router/enable
Router/conf term
Enter configuration commands, one per line. End with CNTL/2.
Router(config)*sip route 172.21.10.0 255.255.255.0 172.21.1.1
Router(config)*sip route 172.21.20.0 255.255.255.0 172.21.1.1
Router(config)*sip route 172.21.50.0 255.255.255.0 172.21.3.2
Router(config)*sip route 172.21.60.0 255.255.255.0 172.21.3.2
Router(config)*sip route 172.21.60.0 255.255.255.0 172.21.3.2
Router(config)*sip route 172.21.80.0 255.255.0 172.21.3.2
Router(config)*sip route 172.21.80.0 255.255.0 172.21.3.2
```

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 172.21.40.0 255.255.255.0 172.21.3.1
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

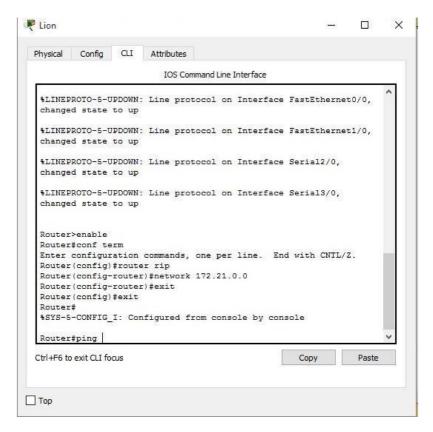
```
Router>enable
Router$conf term
Enter configuration commands, one per line. End with CNIL/Z.
Router(config)$#ip route 172.21.10.0 255.255.255.0 172.21.2.1
Router(config)$#ip route 172.21.20.0 255.255.255.0 172.21.2.1
Router(config)$#ip route 172.21.20.0 255.255.255.0 172.21.2.1
Router(config)$#ip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

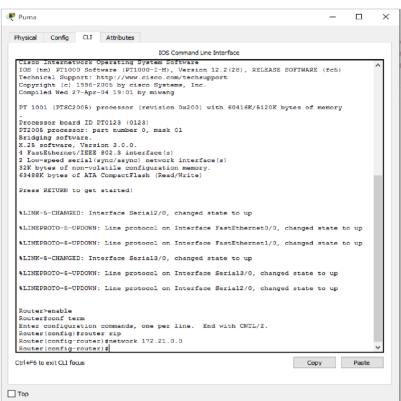
#### 6. Melakukan dari PC 0 ke PC 4

```
PC0
                                                                                                      X
           Config
                      Desktop
  Physical
                                Programming
                                               Attributes
                                                                                                           Х
  Command Prompt
   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





```
PFIOOt<yIWC&OOt> zvu**vr eviiunO*&OO>*i<hfO<lIZ/Sl&OHby< uC z
Pxoc*sio bo» a Io Pious <Qi<e;

a3*88xsys.so**iAcomeactriasn<*eaa,**iEe,

livelid input detected at '*' marker.

znzer conrigurasion comaanas. one per iine. znd vizh cNTr,z.
```

#### Physical Cuufig CLT Attrdutes

```
(3183d bytes oi ATA OampaccFlash !åead/Jrise.'

Lissa I·ID2N tc ger ssartsd!

$LINK-5-CHANGED: Interface Serial3/0, changed state to up

$LIN.4-e-C3A HOx 2: Int ex i*ce Sex ia lz/0, changed state to up

$LIN.EPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

$LIN.D2OTO-t-OEDOW: Line protocol on Interface FastEthernet1/0, changed state to up

$LIN.D2OTO-t-OEDOW: Line protocol on Interface FastEthernet1/0, changed state to up

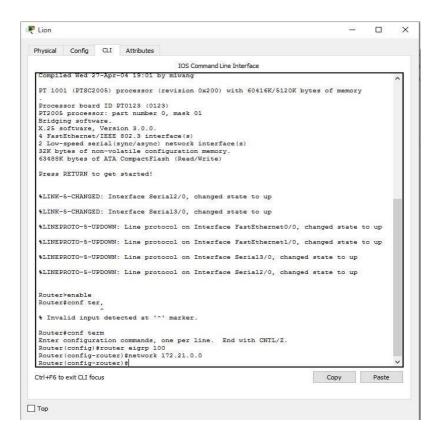
$LIN.D2OTO-t-UEDO?T: Line protocol on Interface Serial*,0, changed state tc up

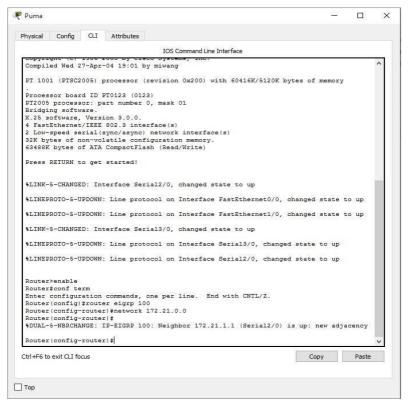
:otsr cenriguratizn command, one per lies. :nd with OW[/Z 2ouior(coolig)lioutsr rip aouzex(coc:ig-:oucer:'*nec«o<2 1?2.21.0.0
```

Ctrl+F6 to exit CLI focus Copy | Paste

#### **IGRP**

# Melakukan konfigurasi ip dan routing secara otomatis





₹ Tiger O X

tLDK-SCflZFGE0: mrs:\*areSiia2/0, changed u\vee \( \text{a} \) up

 ${\tt AlflT8Dt0T0-8-00D0WN:\ Lioe\ protocol\ on\ Imsu**ace\ Fast2:hemet0/0,\ changed\ 9tace\ ze\ up}$ 

tLIHEPAOCO-5-DPDOYH: Line protocol on Interface Fasz?zhernetI/O, changed srate te up

GLIIiE-S-CRANED: Int er£oce Serba13/0, changed state to up

%LI1KPZDI0-5-UP50WN: Lioe protocol on Imlezfacs Seiial<70, cAaogeo #sats to up

\*LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

Router#conf term

Enter configuration commands, one per line. End with CNTL/Z.

2ouseiloonfig-routsr)@

%00AL-1-MBkCSANGZ: 1P-ZU&P ISO: Feigbbor i7.\*1.2.1 lSeriol0/0) is up: nev aojocency

Ctrl+F6 to exit CLI focus Copy Paste

**♥** Jaguar O X

IOS Comimd One Inttr <e

HH I—S—AND: Interface fl erxa 13/9, changed at ate co up

iIImPROI0—G—DPfDIiF: Line protncnl nn Incex la ce FascEthemec0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

 $i \pounds n \bullet RPROIO \hspace{-0.5cm} - S \hspace{-0.5cm} - 0 T \cdot \pounds D i i F \colon \text{Line procncnl } \hspace{0.2cm} \text{nn Incex Care Serials/0, } \hspace{0.2cm} \text{changed state cr up}$ 

II IItE PROMO-G -tJ P00If: twine protocol on Intex £-a ce Seria13/0, changed s to be tn up

2ouc ez>enabLe

?nter configuration commands, one psr lins. Znd vib6 ClKL/2.

Router(config-router) #

lDUAL-S-flBACkAEG?: IV-?lfl2V lfl0' Neighbor 172.21.4.1 lSeria12/0) is up: new adjaceocy

t00U-5-XB8CIfA : I9-\*IG2g 19 0 : Cei gbboz 17x . xl. x . L I 5ez1aI3/0\ is ug: nev adj acency

Router(config-router)

@ Top