NAMA: DEWI RAHMAWATI

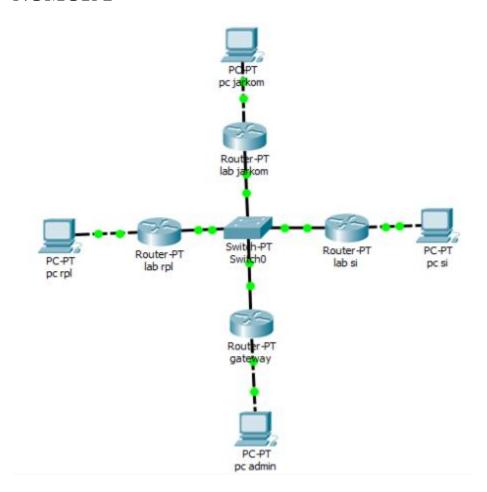
NIM: L200170188

**KELAS: D** 

**TUGAS MODUL 11** 

# **JARINGAN KOMPUTER**

# NOMOR 1



- 1. Melakukan konfigurasi Router pada
  - a. Router Jarkom

```
Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/2.
Router(config) #int fa 0/0
Router(config-1f) #ip address 172.16.0.1 255.255.255.0 Router(config-1f) #no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEDROTO-5-UDDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if) #int fa 1/0
Router(config-if)#ip address 172.15.0.1 255.255.255.0
Router(config-if) #no shutdown
%LINK-S-CHANGED: Interface FastEthernet1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
Router (config-if) #exit
Router(config) #hostname jarkom
jarkom(config)#
```

#### b. Router RPL

```
Router>enable
Router$conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)$int fa 0/0
Router(config-if)$ip address 172.18.0.1 255.255.255.0
Router(config-if)$no shutdown
Router(config-if)$
$\frac{1}{2}$LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
$\frac{1}{2}$LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)$int fa 1/0
Router(config-if)$ip address 172.15.0.3 255.255.255.0
Router(config-if)$no shutdown

Router(config-if)$
$\frac{1}{2}$LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

$\frac{1}{2}$LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

Router(config-if)$
```

#### c. Router SI

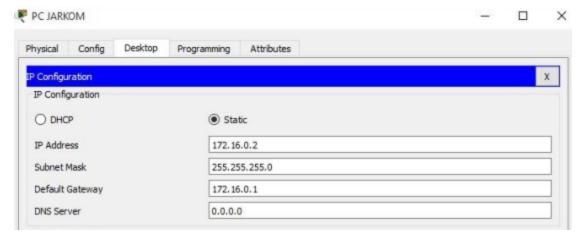
```
Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router (config) $hostname si
si(config) #int fa 0/0
si(config-if) #ip address 172.17.0.1 255.255.255.0
si(config-if) #no shutdown
si(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
$LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
si(config-if) #int fa 1/0
si(config-if) #ip address 172.15.0.2 255.255.255.0
si(config-if) #no shutdown
si(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
si(config-if)#
```

#### d. Router Gateway

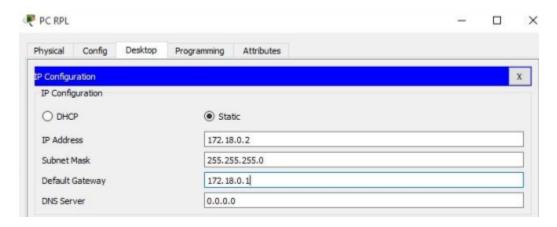
```
Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #hostname ums
ums(config) #int fa 0/0
ums(config-if) #ip address 172.19.0.1 255.255.255.0
ums(config-if)#no shutdown
ums(config-if)#
*LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
ums(config-if) #int fa 1/0
ums(config-if) #ip address 172.15.0.4 255.255.255.0
ums(config-if) #no shutdown
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up
*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
ums (config-if) #
```

### 2. Melakukan konfigurasi pada

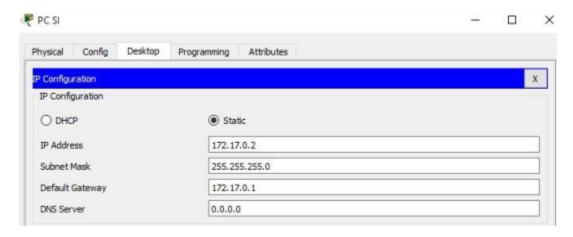
#### a. PC Jarkom



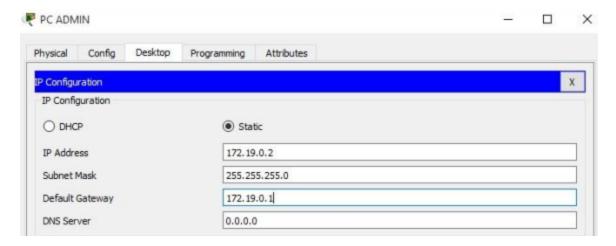
## b. PC RPL



### c. PC SI



d. PC ADMIN



#### 3. Melakukan routing pada

#### a. Router Jarkom

```
Processor board ID PT0123 (0123)
PT2005 processor: part number 0, mask 01
Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)
Press RETURN to get started!
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
jarkom>enable
jarkom#conf term
Enter configuration commands, one per line. End with CNTL/Z.
jarkom(config)#ip route 172.18.0.0 255.255.255.0 172.15.0.3
jarkom(config) #ip route 172.17.0.0 255.255.255.0 172.15.0.2
jarkom(config)#ip route 172.19.0.0 255.255.255.0 172.15.0.4
jarkom(config)#
```

## b. Router RPL

```
Processor board ID PT0123 (0123)
PT2008 processor: part number 0, mask 01
Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)
Press RETURN to get started!
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
rpl>enable
rpl#conf term
Enter configuration commands, one per line. End with CNTL/Z.
rpl(config) #ip route 172.16.0.0 255.255.255.0 172.15.0.1
rpl(config) #ip route 172.17.0.0 255.255.255.0 172.15.0.2
rpl(config) #ip route 172.19.0.0 255.255.255.0 172.15.0.4
rpl(config)#
```

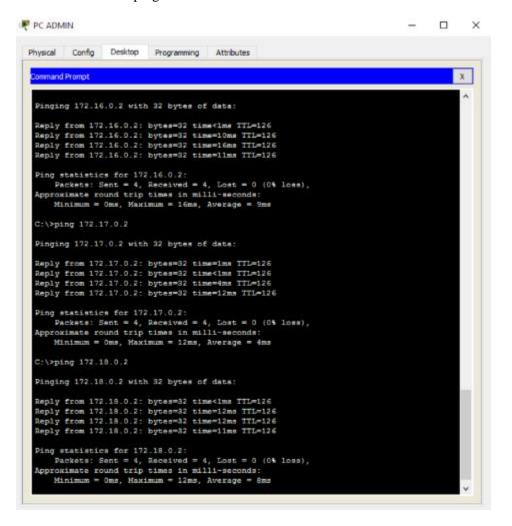
#### c. Router SI

```
Processor board ID PT0123 (0123)
PT2005 processor: part number 0, mask 01
Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)
Press RETURN to get started!
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
si>enable
si#conf term
Enter configuration commands, one per line. End with CNTL/Z.
si(config) #ip route 172.16.0.0 285.255.255.0 172.15.0.1
si(config) #ip route 172.18.0.0 255.255.255.0 172.15.0.3
si(config) #ip route 172.19.0.0 255.255.255.0 172.15.0.4
si(config)#
```

#### d. Router Gateway

```
Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)
Press RETURN to get started!
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
$LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
ums>enable
ums‡conf term
Enter configuration commands, one per line. End with CNTL/2.
ums(config) #ip route 172.16.0.0 255.255.255.0 172.15.0.1
ums(config) #ip route 172.18.0.0 255.255.255.0 172.15.0.3
ums(config) #ip route 172.19.0.0 255.255.255.0 172.15.0.4
*Invalid next hop address (it's this router)
ums(config) #ip route 172.17.0.0 255.255.255.0 172.15.0.2
ums (config) #
```

#### 4. Melakukan ping dari PC ADMIN



# **NOMOR 2 (STATIC)**



### 1. Melakukan konfigurasi pada

a. Router Gateway

```
Router*conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #hostname gateway
gateway(config) #int se 2/0
gateway(config-if) #ip address 192.168.1.1
% Incomplete command.
gateway(config-if) #ip address 192.168.1.1 255.255.255.0
gateway(config-if) #no shutdown
gateway(config-if) #
```

#### b. Router Jarkom

```
Router=conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #hostname jarkom
jarkom(config) #int se 2/0
jarkom(config-if) #ip address 192.168.1.2 255.255.255.0
jarkom(config-if) #no shutdown
jarkom(config-if) #int se 3/0
jarkom(config-if) #clock rate 2000000
jarkom(config-if) #ip address 192.168.2.1 255.255.255.0
jarkom(config-if) #no shutdown
jarkom(config-if) #no shutdown
jarkom(config-if) #
```

#### c. Router RPL

```
Router*conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #hostname rpl
rpl(config) #int se 2/0
rpl(config-if) #clock rate 2000000
rpl(config-if) #ip address 192.168.3.1 255.255.255.0
rpl(config-if) #no shutdown

*LINK-5-CHANGED: Interface Serial2/0, changed state to down
rpl(config-if) #int se 3/0
rpl(config-if) #ip address 192.168.2.2 255.255.255.0
rpl(config-if) #no shutdown

rpl(config-if) #
*LINK-5-CHANGED: Interface Serial3/0, changed state to up
rpl(config-if) #
```

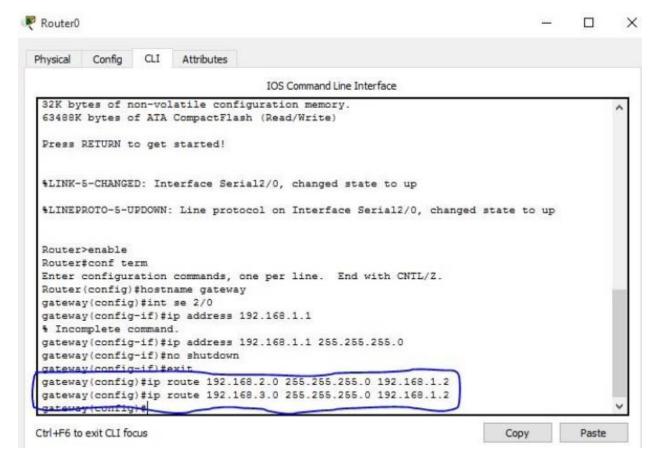
#### d. Router SI

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

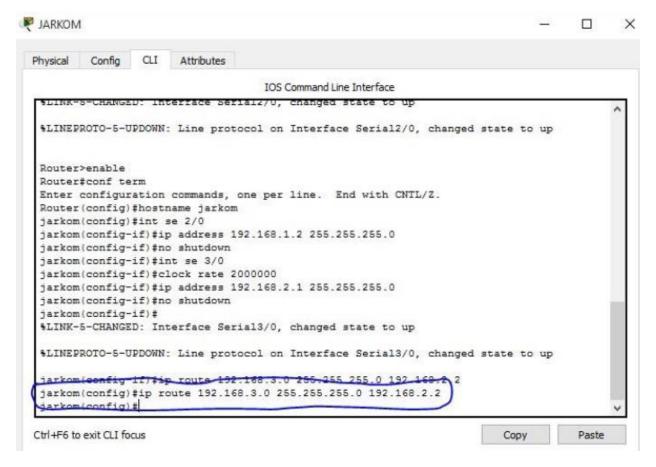
Router (config) #hostname si
si(config) #int se 2/0
si(config-if) #ip address 192.168.3.2 255.255.255.0
si(config-if) #no shutdown

si(config-if) #
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
si(config-if) #
```

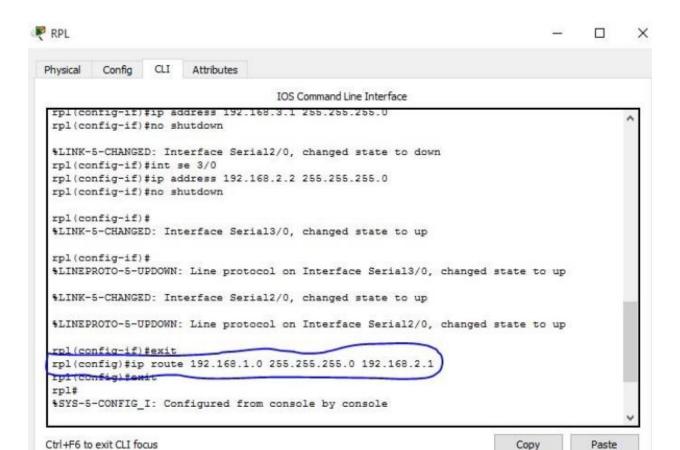
- 5. Melakukan routing pada
  - a. Router gateway



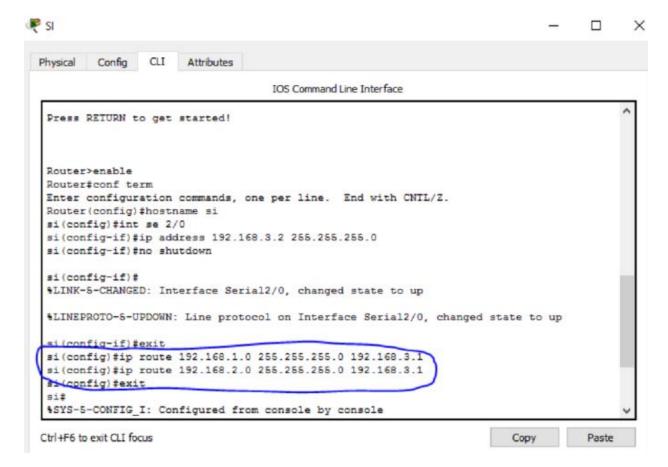
#### b. Router Jarkom



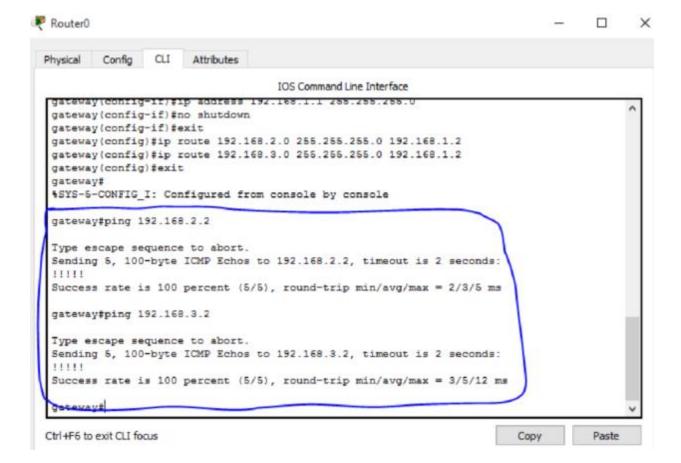
c. Router RPL



### d. Router SI

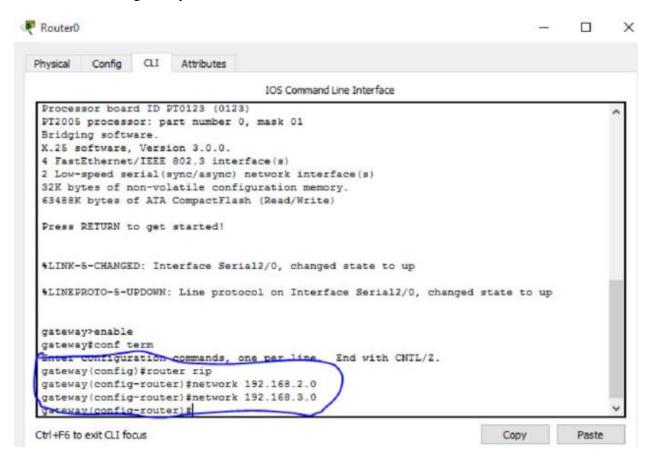


### 6. Uji konektivitas

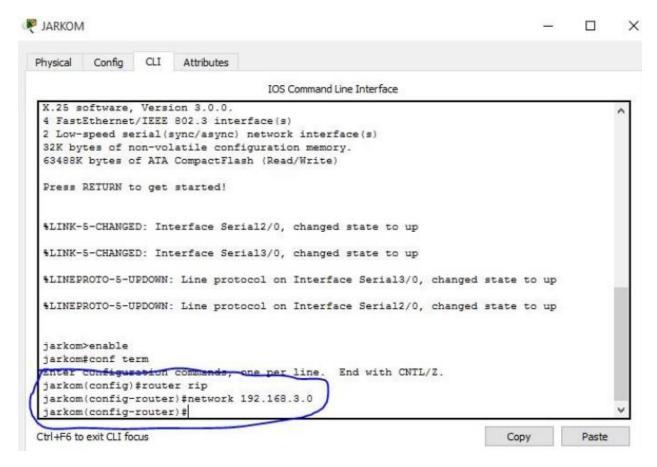


## **NOMOR 2 (DINAMIS)**

- 1. Melakukan routing pada
  - a. Router gateway

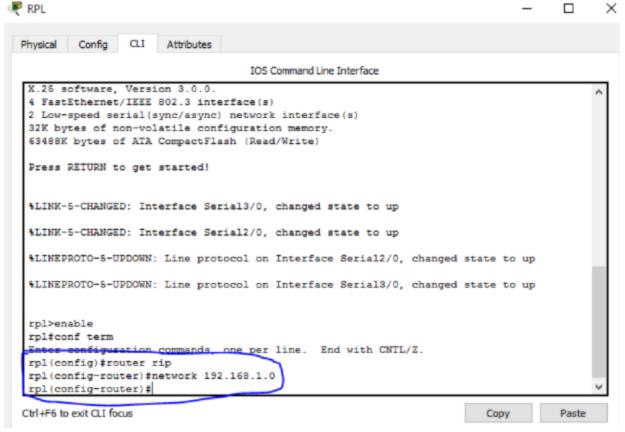


b. Router Jarkom



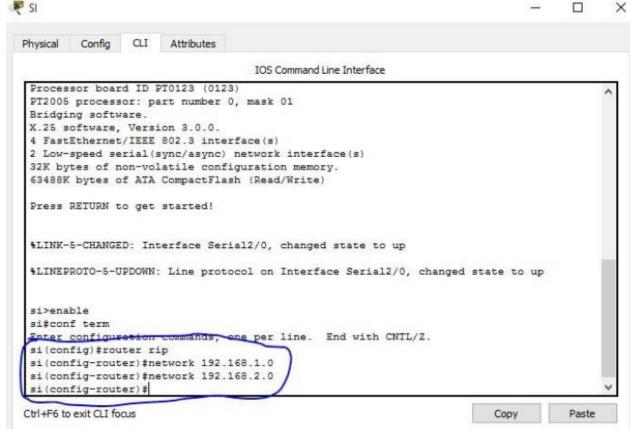
c. Router RPL





#### d. Router SI





#### 2. Uji Konektivitas

```
%SYS-5-CONFIG_I: Configured from console by console
gateway#ping 192.168.2.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.2.2, timeout is 2 seconds:
11111
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/5/10 ms
gateway#ping 192.168.3.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.3.2, timeout is 2 seconds:
11111
Success rate is 100 percent (5/5), round-trip min/avg/max = 5/9/12 ms
gateway#ping 192.168.2.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.2.1, timeout is 2 seconds:
TITLE
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/6 ms
gateway#
```