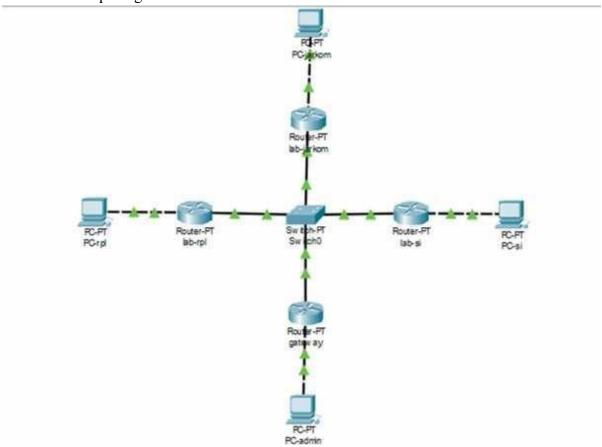
# Laporan Praktikum Jaringan Komputer

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Kelas : C Modul : 11

# Kegiatan Praktikum.

1. Buat netmap dengan router 2514 dan switch 1912.



## 2. Konfigurasi IP Address pada semua Router.

- Konfigurasi Router 1

```
Routerben
Router#conf term
Enter configuration commands, one per line. End with CNTL/2.
Router(config) #hostname Jarkom
Jarkom(config) #int fa0/0
Jarkom(config-if) #ip address 172.16.0.1 255.255.255.0
Jarkom(config-if) #no shutdown
Jarkom(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
Jarkom(config-if) #exit
Jarkom(config) #int fal/0
Jarkom(config-if) #ip address 172.15.0.1 255.255.255.0
Jarkom(config-if) #no shutdown
Jarkom(config-if)#
%LINK-S-CHANGED: Interface FastEthernet1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
Jarkom(config-if) fexit
Jarkom(config) $router rip
```

### - Konfigurasi Router 2

```
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/2.
Router(config) #hostname SistemInformasi
SistemInformasi(config) #int fa0/0
SistemInformasi(config-if) #ip address 172.17.0.1 255.255.255.0
SistemInformasi(config-if)#no shutdown
SistemInformasi(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
SistemInformasi(config-if) #exit
SistemInformasi(config) #int fal/0
SistemInformasi(config-if) #ip address 172.18.0.2 255.255.255.0
SistemInformasi(config-if) #no shutdown
SistemInformasi(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
SistemInformasi(config-if) #exit
SistemInformasi/config) fronter ris
```

#### - Konfigurasi Router 3

```
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #hostname RPL
RPL(config) #int fa0/0
RPL(config-if) #ip address 172.18.0.1 255.255.255.0
RPL(config-if) #no shutdown
RPL(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
RPL(config-if) #exit
RPL(config) #int fal/0
RPL(config-if) sip address 172.15.0.3 255.255.255.0
RPL(config-if) #no shutdown
RPL(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
RPL(config-if) #exit
RPL(config) fronter rin
```

#### Konfigurasi Router 4

```
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/2.
Router(config) #hostname UMS
UMS(config) #int fa0/0
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) #exit
UMS(config) #int fal/0
UMS(config-if) #ip address 172.15.0.4 255.255.255.0
UMS(config-if) #no shutdown
UMS (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
UMS(config-if) #exit
IBMS (config) fronter rin
```

3. Konfigurasi Routing Table pada semua Router.

- Routing Table pada Router 1 (Jarkom)

```
Jarkom(config-if) #exit

Jarkom(config) #router rip

Jarkom(config-router) #network 172.15.0.0

Jarkom(config-router) #network 172.16.0.0

Jarkom(config-router) #network 172.17.0.0

Jarkom(config-router) #network 172.18.0.0

Jarkom(config-router) #network 172.19.0.0

Jarkom(config-router) #network 172.19.0.0
```

- Routing Table pada Router 2 (Sistem Informasi)

```
SistemInformasi(config-if) #exit

SistemInformasi(config) #router rip

SistemInformasi(config-router) #network 172.15.0.0

SistemInformasi(config-router) #network 172.16.0.0

SistemInformasi(config-router) #network 172.17.0.0

SistemInformasi(config-router) #network 172.18.0.0

SistemInformasi(config-router) #network 172.19.0.0

SistemInformasi(config-router) #
```

- Routing Table pada Router 3 (RPL)

```
RPL(config-if) #exit

RPL(config) #router rip

RPL(config-router) #network 172.15.0.0

RPL(config-router) #network 172.16.0.0

RPL(config-router) #network 172.17.0.0

RPL(config-router) #network 172.18.0.0

RPL(config-router) #network 172.18.0.0

RPL(config-router) #network 172.19.0.0
```

- Routing Table pada Gateway (UMS)

```
UMS (config-if) #exit

UMS (config) #router rip

UMS (config-router) #network 172.15.0.0

UMS (config-router) #network 172.16.0.0

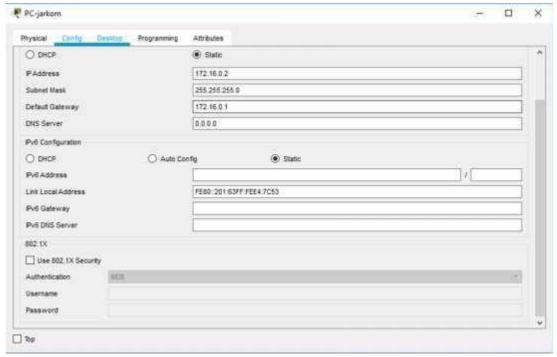
UMS (config-router) #network 172.17.0.0

UMS (config-router) #network 172.18.0.0

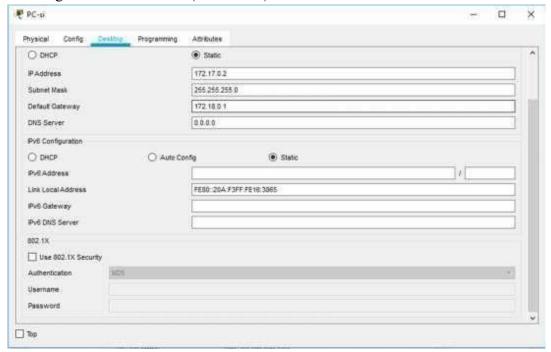
UMS (config-router) #network 172.18.0.0

UMS (config-router) #network 172.19.0.0
```

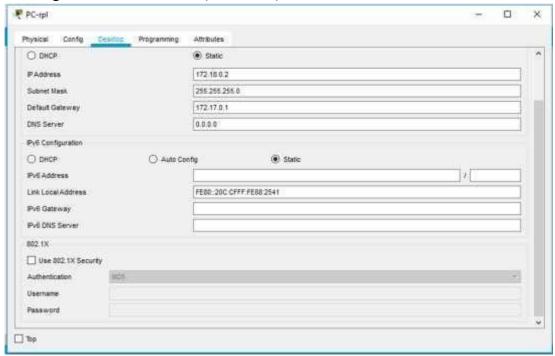
- 4. Konfigurasi IP pada masing-masing PC.
  - Setting IP untuk PC lab Jarkom (172.16.0.2)



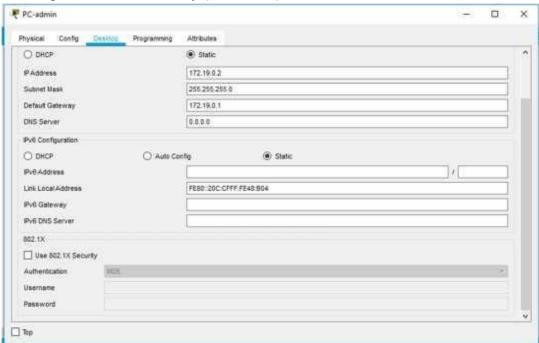
- Setting IP untuk PC lab SI (172.17.0.2)



- Setting IP untuk PC lab RPL (172.18.0.2)



- Setting IP untuk PC Gateway (172.19.0.2)



- 5. Pengujian ICMP request (ping)
  - Proses ping dari PC Admin ke PC Jarkom

```
C:>ping 172.16.C.2

Pinging 172.16.C.2

Rep y from 172 16 0 2 hytes=82 time=los TTL=126

Rep y from 172.16.0.2: bytes=92 time=los TTL=126

Rep y from 172.16.0.2: bytes=92 time=los TTL=126

Rep y from 172.16.0.2: bytes=92 time=los TTL=126

Ping statistics for 172.16.C.2.

Packets: Sent = 4, Decaived = 4, Lost = 0 (0% loss),

Approximate round orig times in mill.—seconds.

Minimum - los, Maximum - 18ms, Average - Sms
```

- Proses ping dari PC Admin ke PC SI

```
C:\>ping 172.17.0.2

Pinging 172.17.0.2 with 32 bytes of data:

Reply from 172.17.0.2: bytes=32 time=2ms TTL=126
Reply from 172.17.0.2: bytes=32 time<1ms TTL=126
Reply from 172.17.0.2: bytes=32 time<1ms TTL=126
Reply from 172.17.0.2: bytes=32 time<1ms TTL=126

Ping statistics for 172.17.0.2:

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

- Proses ping dari PC Admin ke PC RPL

```
C:\>ping 172.18.0.2

Pinging 172.18.0.2 with 32 bytes of data:

Reply from 172.18.0.2: bytes=32 time<lms TTL=126

Ping statistics for 172.18.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in mill:-seconds:

Minimum = 0ms, Maximum = 14ms, Average = 6ms
```