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NIM : L200170143

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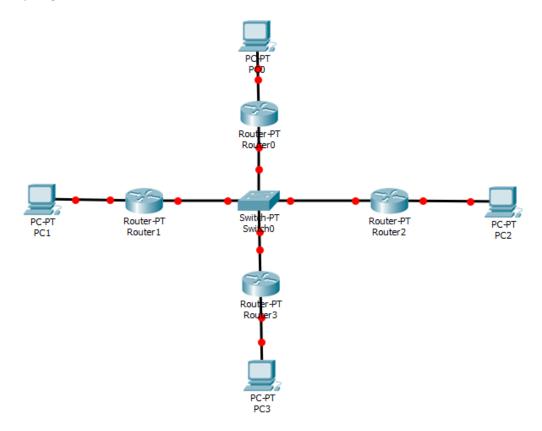
MODUL 11

Perancangan Jaringan Laboratorium Sederhana

Menggunakan Packet Tracer

Kegiatan Praktikum.

1. Topologi.



2. Melakukan konfigurasi semua router.

SistemInformasi(config-if) #no shutdown

%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

SistemInformasi(config-if) #

SistemInformasi(config) #

SistemInformasi(config-if) #exit

a. Router 1

```
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
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
Jarkom(config-if) #exit
Jarkom(config) #int fa1/0
Jarkom(config-if) #ip address 172.15.0.1 255.255.255.0
Jarkom(config-if) #no shutdown
Jarkom(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
Jarkom(config-if) #exit
Jarkom(config)#
b. Router 2
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
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
SistemInformasi(config-if) #exit
SistemInformasi(config) #int fa1/0
SistemInformasi(config-if)#ip address 172.15.0.2 255.255.255.0
```

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

c. 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
RPL(config-if) #exit
RPL(config) #int fa1/0
RPL(config-if) #ip address 172.15.0.3 255.255.255.0
RPL(config-if) #no shutdwon
% Invalid input detected at '^' marker.
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)#
d. Router 4
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
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
UMS(config-if) #exit
UMS(config) #int fa1/0
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
UMS(config)#
```

3. Melakukan konfigurasi Routing Table pada 4 Router.

a. Router Jarkom.

```
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) #exit
Jarkom(config) #
```

b. Router SI.

```
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) #network 172.19.0.0
SistemInformasi(config-router) #exit
SistemInformasi(config) #
```

c. Router RPL.

```
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 172.19.0.0

RPL(config-router) #network 172.19.0.0

RPL(config-router) #exit

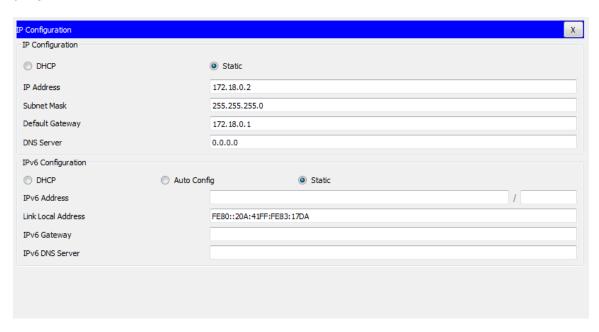
RPL(config) #
```

d. Router UMS.

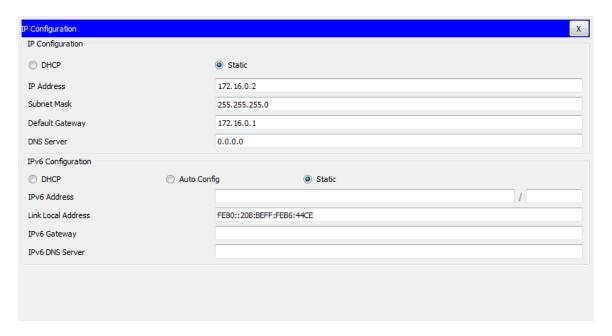
```
UMS(config) #router rip
UMS(config-router) #network 172.15.0.0
UMS(config-router) #network 172.16.0.0
UMS(config-router) #network 172.17.0.0
UMS(config-router) #network 172.18.0.0
UMS(config-router) #network 172.19.0.0
UMS(config-router) #network 172.19.0.0
UMS(config-router) #exit
UMS(config) #
```

4. Melakukan konfigurasi masing-masing PC.

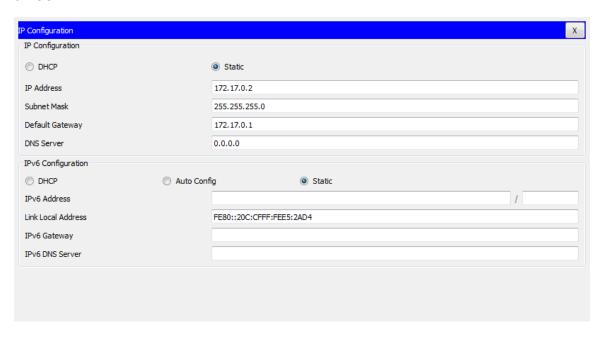
a. PC RPL.



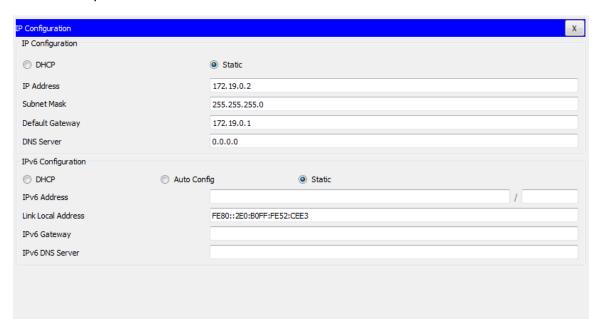
b. PC Jarkom.



c. PC SI.



d. PC Gateway.



5. Melakukan Ping

```
C:\>ping 172.16.0.2

Pinging 172.16.0.2 with 32 bytes of data:

Reply from 172.16.0.2: bytes=32 time=1ms TTL=126
Reply from 172.16.0.2: bytes=32 time<1ms TTL=126

Ping statistics for 172.16.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

```
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<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

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 = 1ms, Average = 0ms
```

```
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=1ms TTL=126

Reply from 172.18.0.2: bytes=32 time=1ms TTL=126

Reply from 172.18.0.2: bytes=32 time<1ms TTL=126

Reply from 172.18.0.2: bytes=32 time<1ms TTL=126

Ping statistics for 172.18.0.2:

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

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms
```