Nama: Nugroho Prihananto

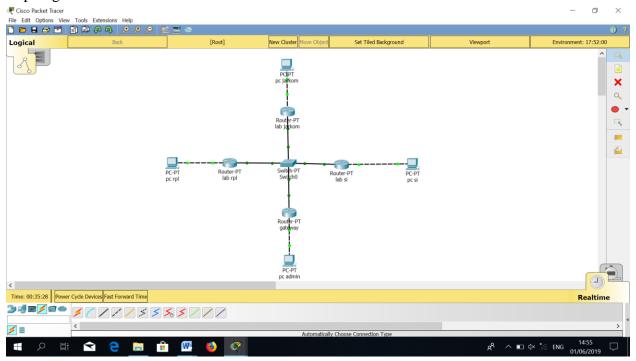
NIM : L200170186

Kelas: D

## **MODUL 11**

## Kegiatan

1. Topologi



- 2. Konfigurasi semua router
  - Konfigurasi router jarkom



```
CLI
Physical
         Config
                        Attributes
                                                                                     IOS Commar
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
%LINEPROTO-5-UPDOWN: Line protocol on 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
```

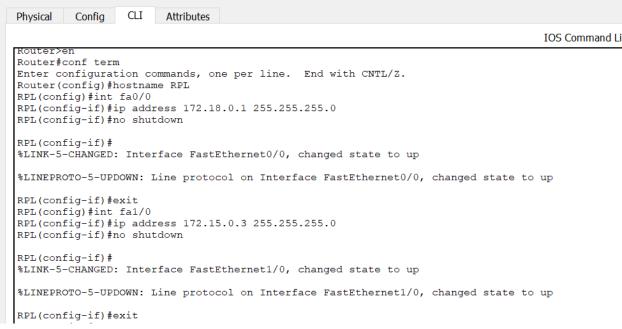
Konfigurasi router system informasi



```
Config CLI
                      Attributes
Physical
                                                                                    IOS Co
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
%LINEPROTO-5-UPDOWN: Line protocol on 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
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
```

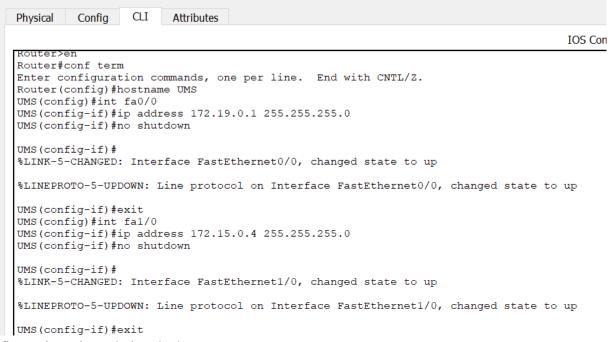
Konfigurasi router RPL





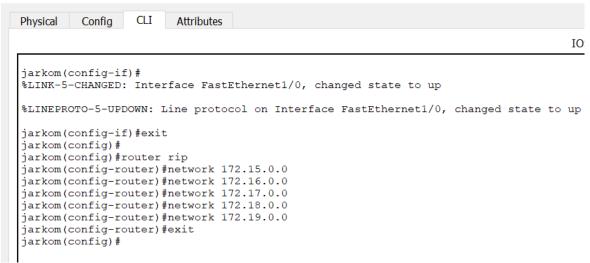
Konfigurasi router gateway





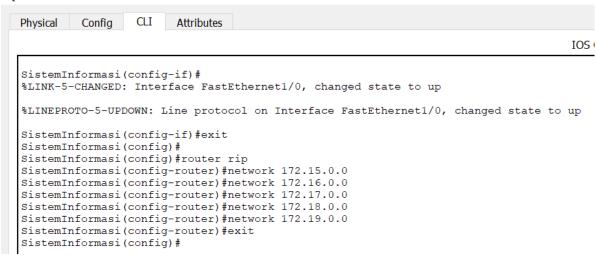
- 3. Konfigurasi routing tabel pada 4 router
  - Membuat routing table pada router 1/jarkom



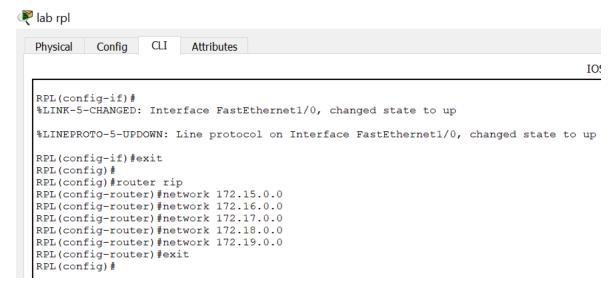


Membuat routing table pada router 2/SI

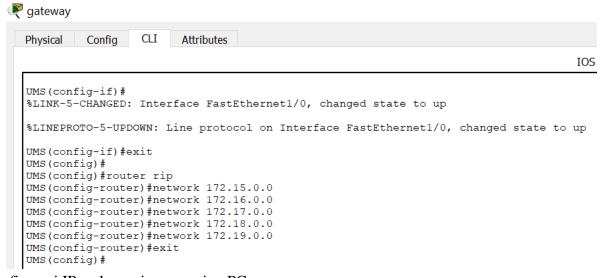




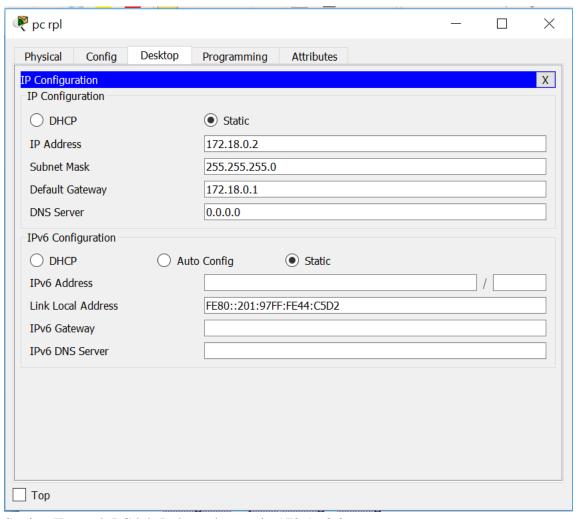
Membuat routing table pada router 3/RPL



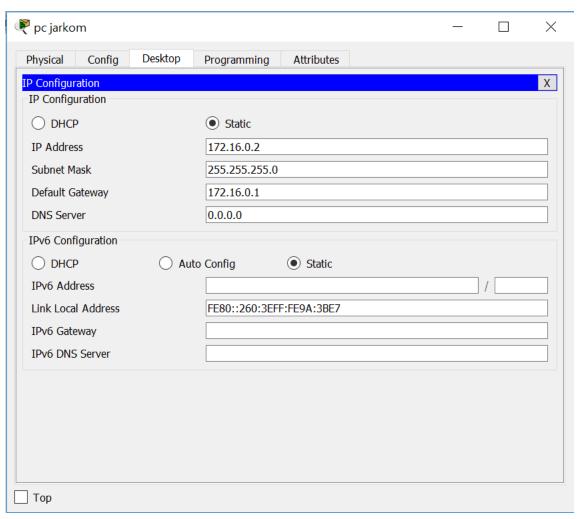
- Membuat routing table pada router 4 / gateway UMS



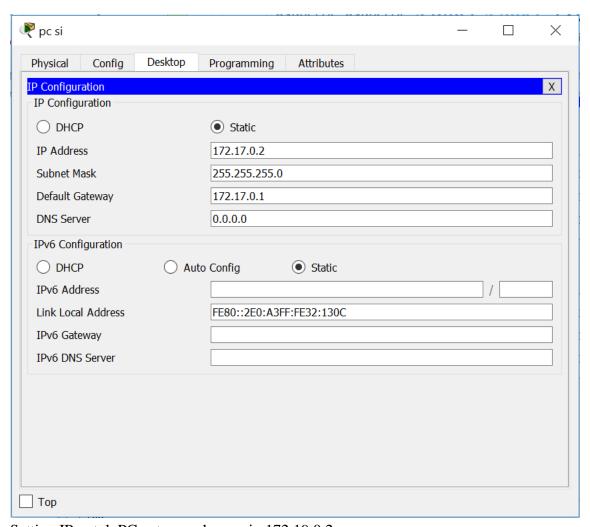
- 4. Konfigurasi IP pada masing masing PC
  - Setting IP untuk PC lab RPL dengan ip 172.18.0.2/24



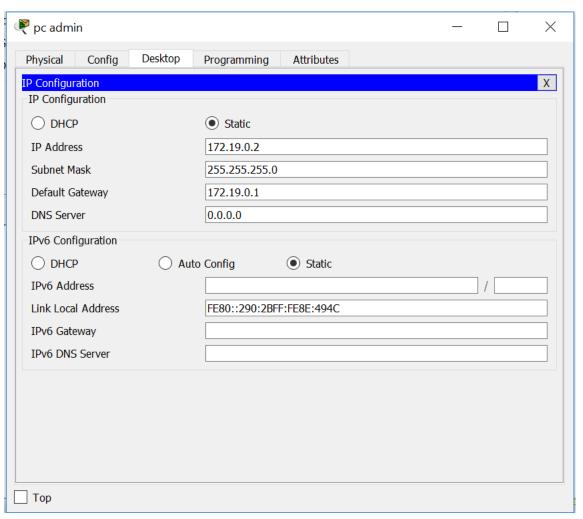
- Setting IP untuk PC lab Jarkom dengan ip 172.16.0.2



- Setting IP untuk PC lab SI dengan ip 172.17.0.2



- Setting IP untuk PC gateway dengan ip 172.19.0.2



5. Pengujian ICMP request (ping) untuk test koneksi

- PC admin ke pc jarkom(172.16.0.2)

```
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=13ms TTL=126
Reply from 172.16.0.2: bytes=32 time=3ms TTL=126
Reply from 172.16.0.2: bytes=32 time=12ms 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 = 13ms, Average = 7ms
```

- PC admin ke pc RPL (172.17.0.2)

```
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

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
```

## PC admin ke pc SI (172.18.0.2)

```
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=11ms 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 = 11ms, Average = 3ms
```