Nama   : Aldo Brian Granada
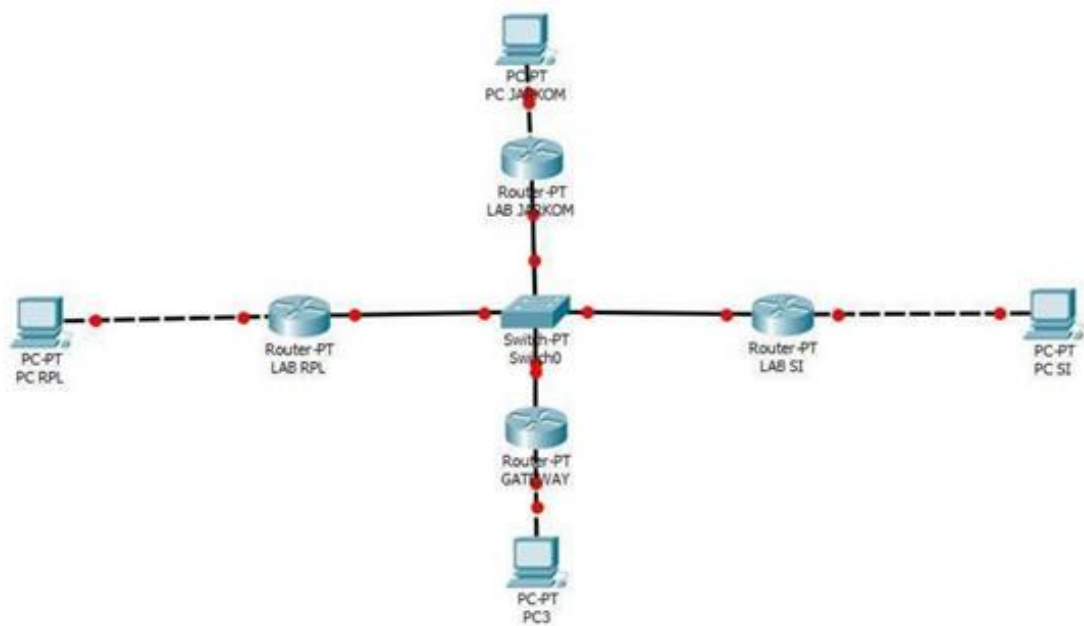
NIM   : L200170182

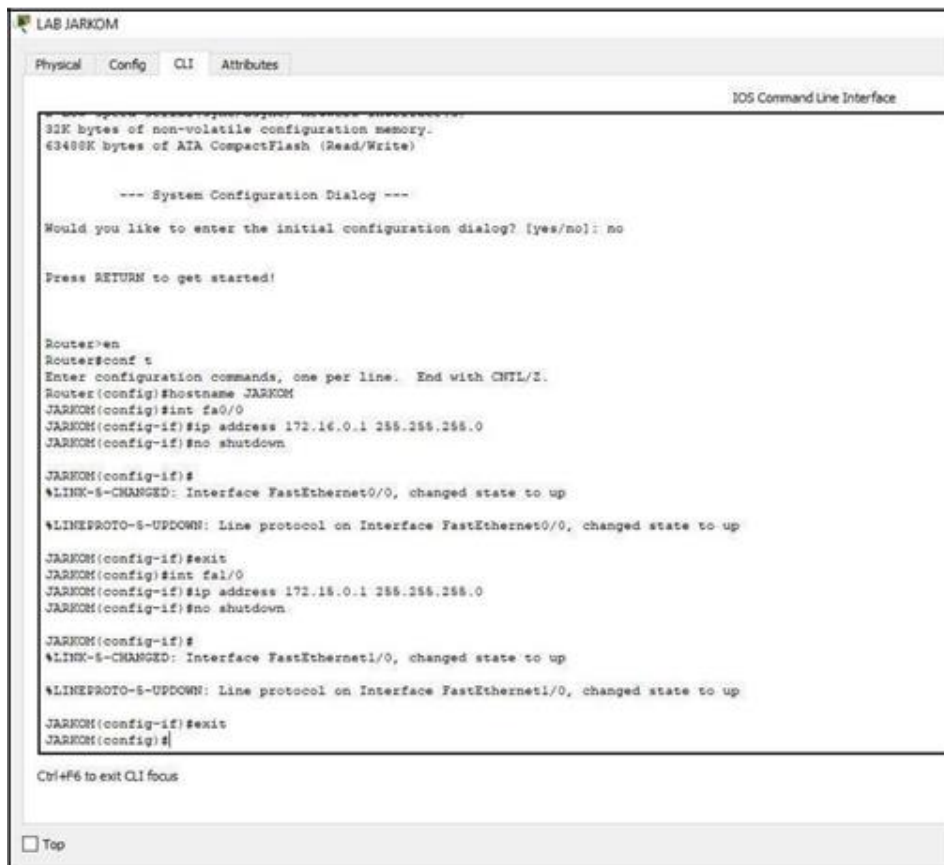Kelas   : D

Laporan Praktikum
Jaringan Komputer

Modul 11

Konfigurasi router


```
LAB JARKOM

Physical   Config   CLI   Attributes

                                                          IOS Command Line Interface
  32K bytes of non-volatile configuration memory.
  63400K bytes of ATA CompactFlash (Read/Write)


          --- System Configuration Dialog ---

  Would you like to enter the initial configuration dialog? [yes/no]: no


  Press RETURN to get started!


  Router>en
  Router#conf t
  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
  JARKOM(config)#

Ctrl+F6 to exit CLI focus

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```
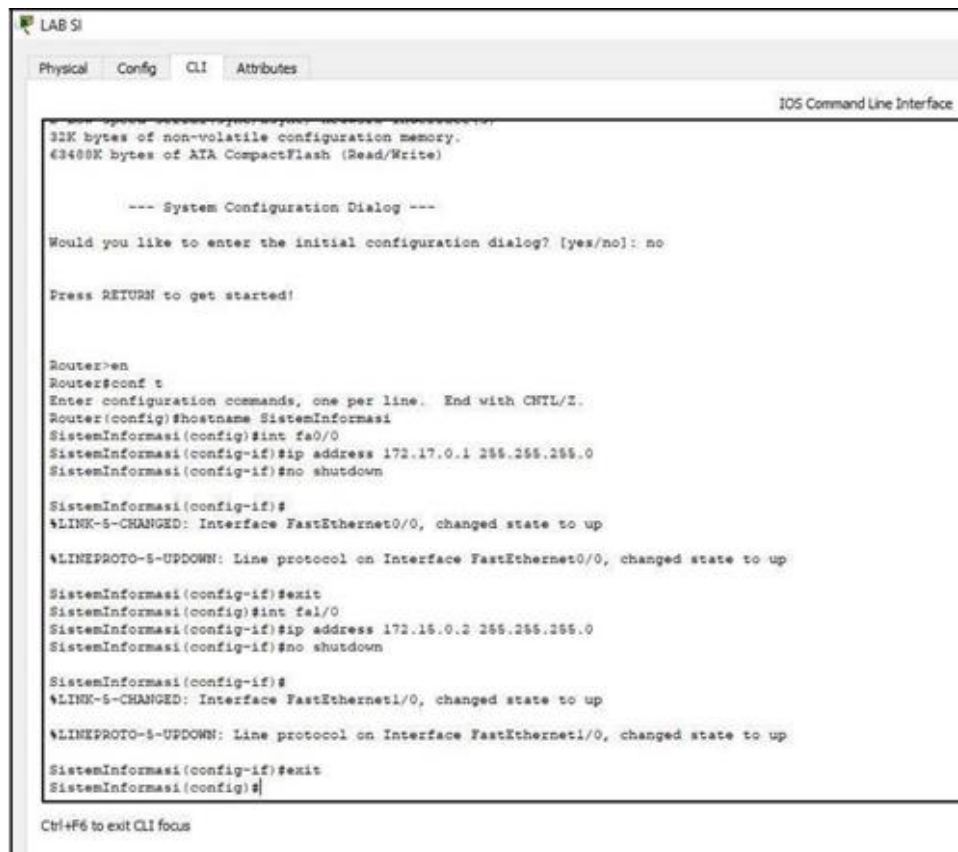


```
LAB SI

Physical   Config   CLI   Attributes

                                                          IOS Command Line Interface
  32K bytes of non-volatile configuration memory.
  63400K bytes of ATA CompactFlash (Read/Write)


          --- System Configuration Dialog ---

  Would you like to enter the initial configuration dialog? [yes/no]: no


  Press RETURN to get started!


  Router>en
  Router#conf t
  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
  SistemInformasi(config)#

Ctrl+F6 to exit CLI focus
```

LAB RPL

Physical | Config | CLI | Attributes

IOS Command Line Interface

```
         32K bytes of non-volatile configuration memory.
         63488K bytes of ATA CompactFlash (Read/Write)


                 --- System Configuration Dialog ---

         Would you like to enter the initial configuration dialog? [yes/no]: no


         Press RETURN to get started!



         Router>en
         Router#conf t
         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 fa1/0
         RPL(config-if)#ip 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)#
```

Ctrl+F6 to exit CLI focus

GATEWAY

Physical | Config | CLI | Attributes

IOS Command Line Interface

```
         32K bytes of non-volatile configuration memory.
         63488K bytes of ATA CompactFlash (Read/Write)


                 --- System Configuration Dialog ---

         Would you like to enter the initial configuration dialog? [yes/no]: no


         Press RETURN to get started!



         Router>en
         Router#conf t
         Enter configuration commands, one per line.  End with CNTL/Z.
         Router(config)#hostname UMS
         UMS(config)#int fa0/0
         UMS(config-if)#ip address 172.15.0.1 255.255.255.0
         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 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)#
```

Ctrl+F6 to exit CLI focus

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Konfigurasi routing

Membuat Routing Table pada 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)#
```

Membuat Routing Table pada 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)#
```
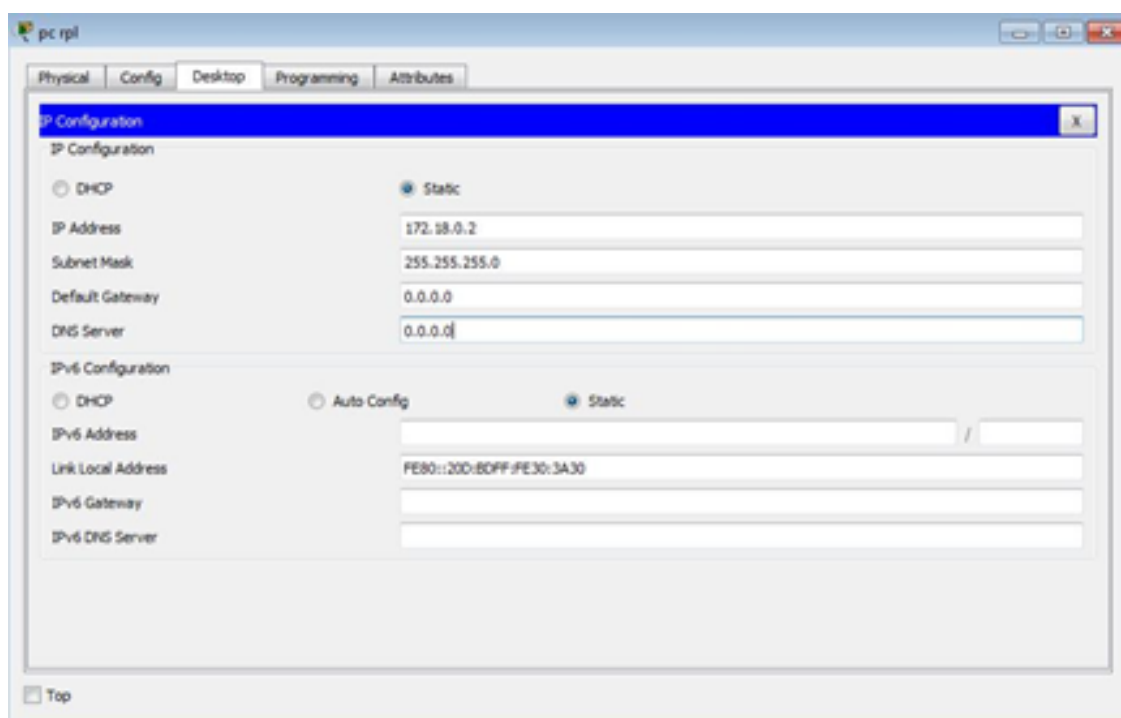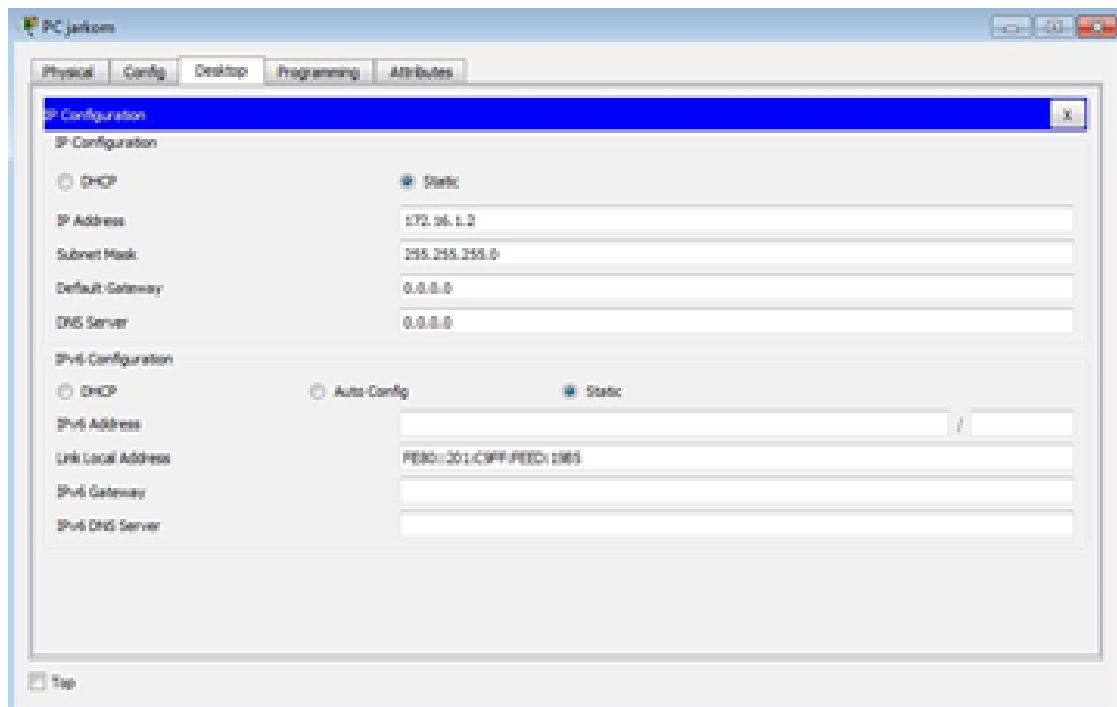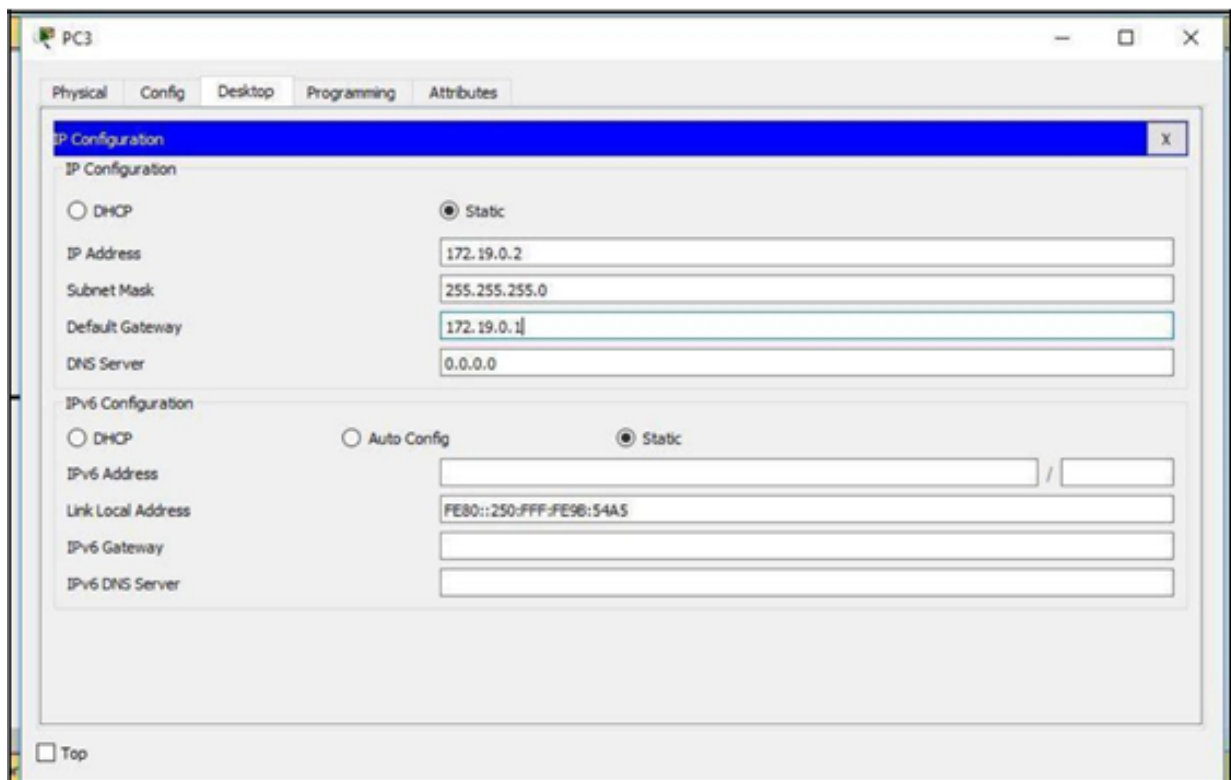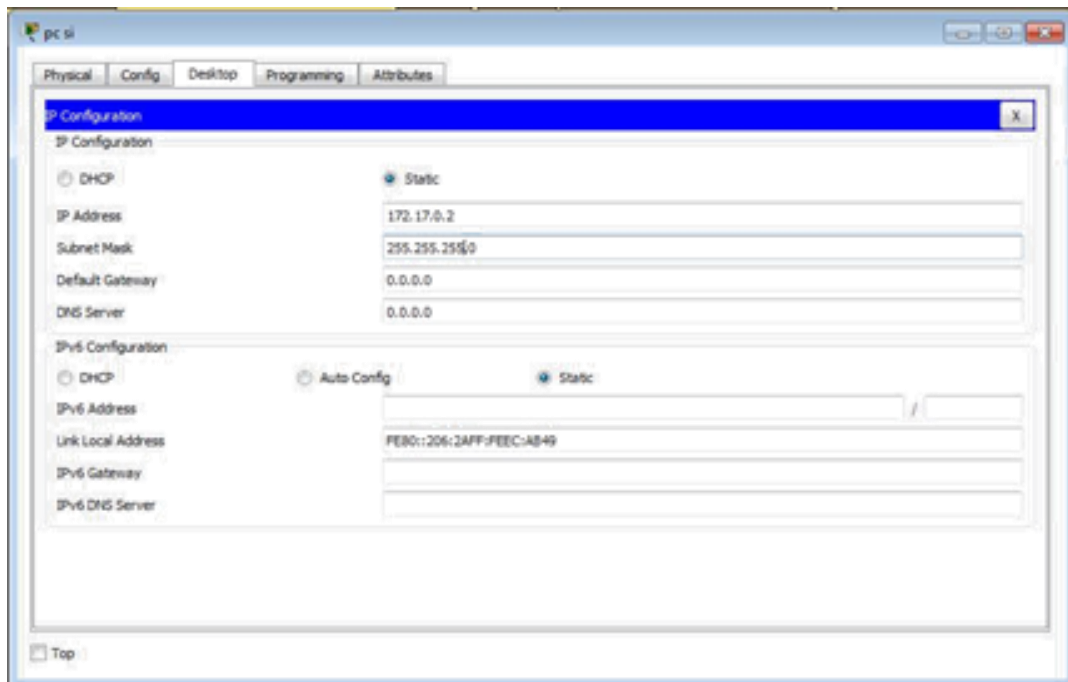
Membuat Routing Table pada RPL

```
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)#
```

Membuat Routing Table pada gateway

```
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)#
```

Konfigurasi IP

Lakukan pengujian ICMP request(ping) untuk test koneksi

```
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
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
```