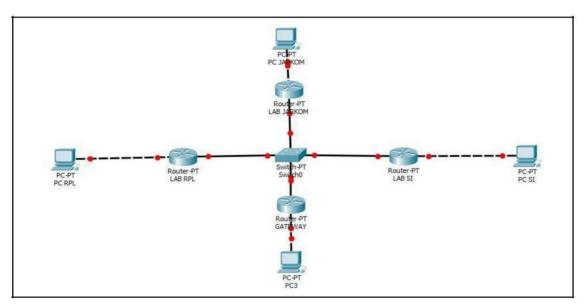
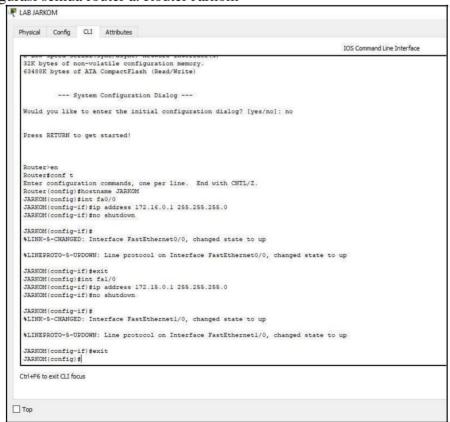
Modul 11

1. Buat rangkaian topologi



2. Konfigurasi semua router a. Router Jarkom



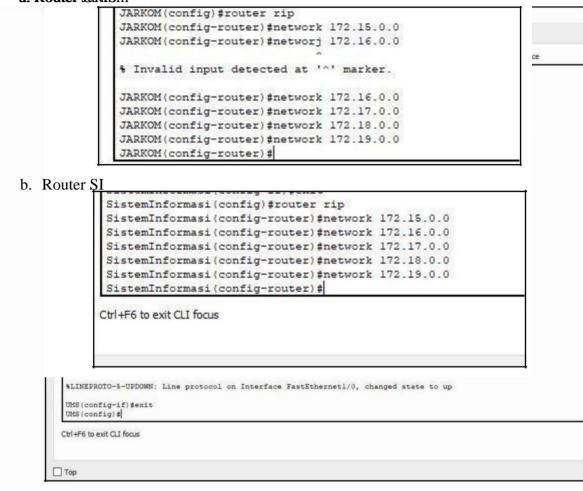
b. Router SI

```
LAB SI
  Physical Config CLI Attributes
                                                                                                               TOS 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#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 fal/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
```

c. Router RPL

```
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 CNIL/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) #int fal/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
```

d. Router JaNism



3. Konfigurasi routing table pada 4 router

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
```

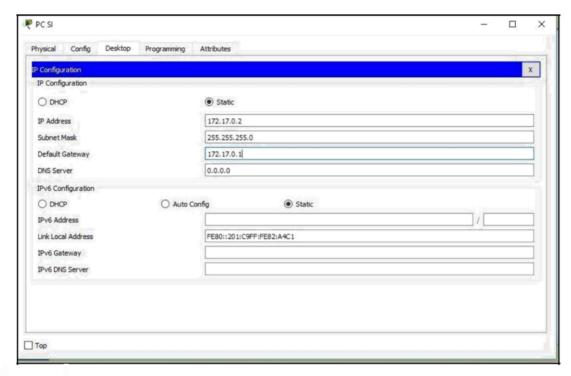
d. Router UMS

```
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 172.18.0.0
```

4. Konfigurasi IP pada masing- masing PC

a. PC Jarkom PC JARKOM Physical Config Desktop Programming Attributes IP Configuration O DHCP Static 172.16.0,2 IP Address 255.255.255.0 Subnet Mask Default Gateway 172.16.0.1 DNS Server 0.0.0.0 IPv6 Configuration O DHCP O Auto Config Static IPv6 Address Link Local Address FE80::2D0:D3FF:FE30:5C09 IPv6 Gateway IPv6 DNS Server Тор

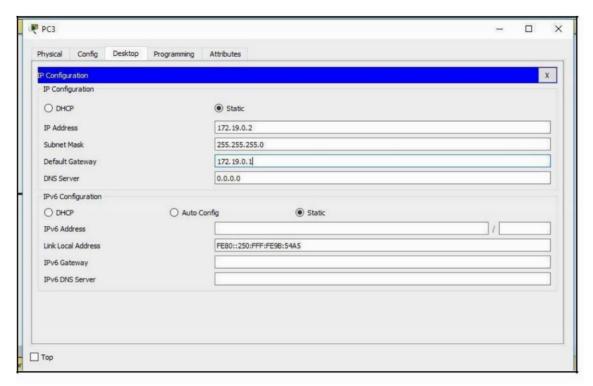
b. PC SI



c. PC RPL

IP Configuration			х
IP Configuration			
O DHCP	Static		
IP Address	172.18.0.2		
Subnet Mask	255.255.255.0		
Default Gateway	172.18.0.1		
DNS Server	0.0.0.0		
IPv6 Configuration			
O DHCP	O Auto Config Static		
IPv6 Address		1	
Link Local Address	FE80::260:3EFF:FE4C:A785		
IPv6 Gateway			
IPv6 DNS Server			

d. PC UMS



2. Lakukan pengujian ICMP request(ping) untuk test koneksi a. PC UMS ke PC Jarkom

```
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=lms TTL=126

Reply from 172.16.0.2: bytes=32 time=l2ms TTL=126

Reply from 172.16.0.2: bytes=32 time=l2ms TTL=126

Reply from 172.16.0.2: bytes=32 time=l2ms 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 = lms, Maximum = 12ms, Average = 9ms
```

b. PC UMS ke PC SI

```
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

Reply from 172.18.0.2: bytes=32 time=15ms TTL=126

Reply from 172.18.0.2: bytes=32 time=19ms TTL=126

Reply from 172.18.0.2: bytes=32 time=12ms 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 = 19ms, Average = 11ms

C:\>
```

c. PC UMS ke PC RPL

```
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<lms TTL=126
Reply from 172.17.0.2: bytes=32 time=19ms TTL=126
Reply from 172.17.0.2: bytes=32 time=10ms TTL=126
Reply from 172.17.0.2: bytes=32 time=12ms 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 = 19ms, Average = 10ms
```