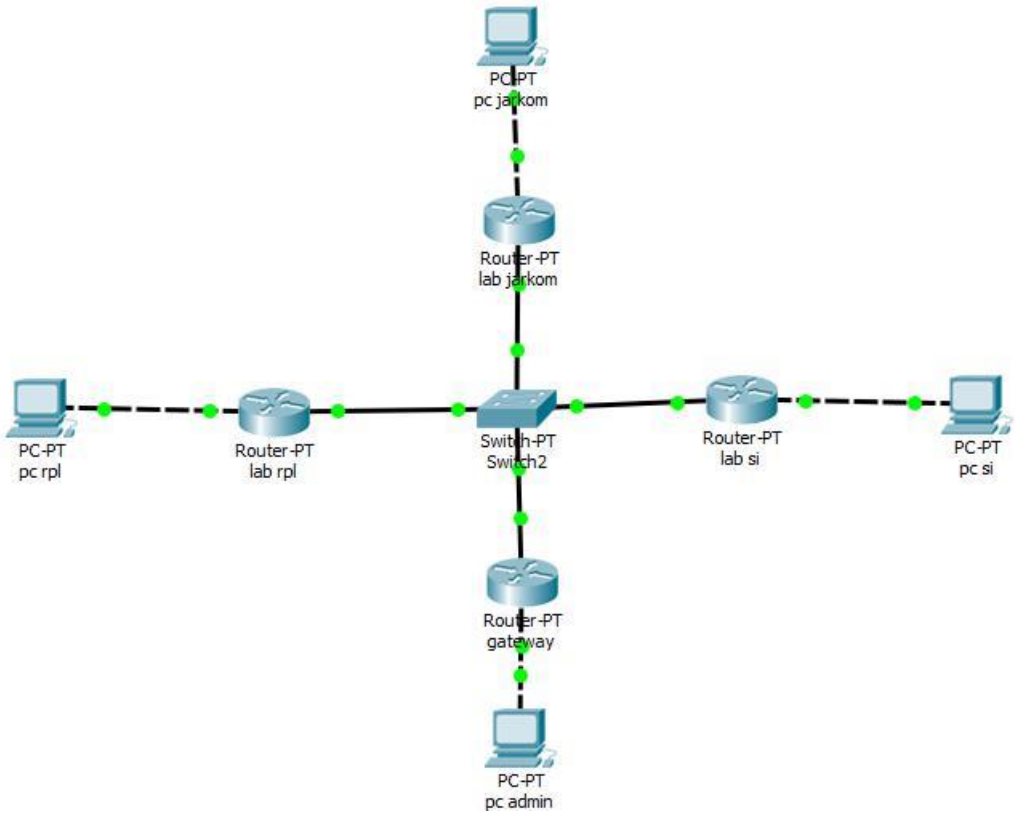
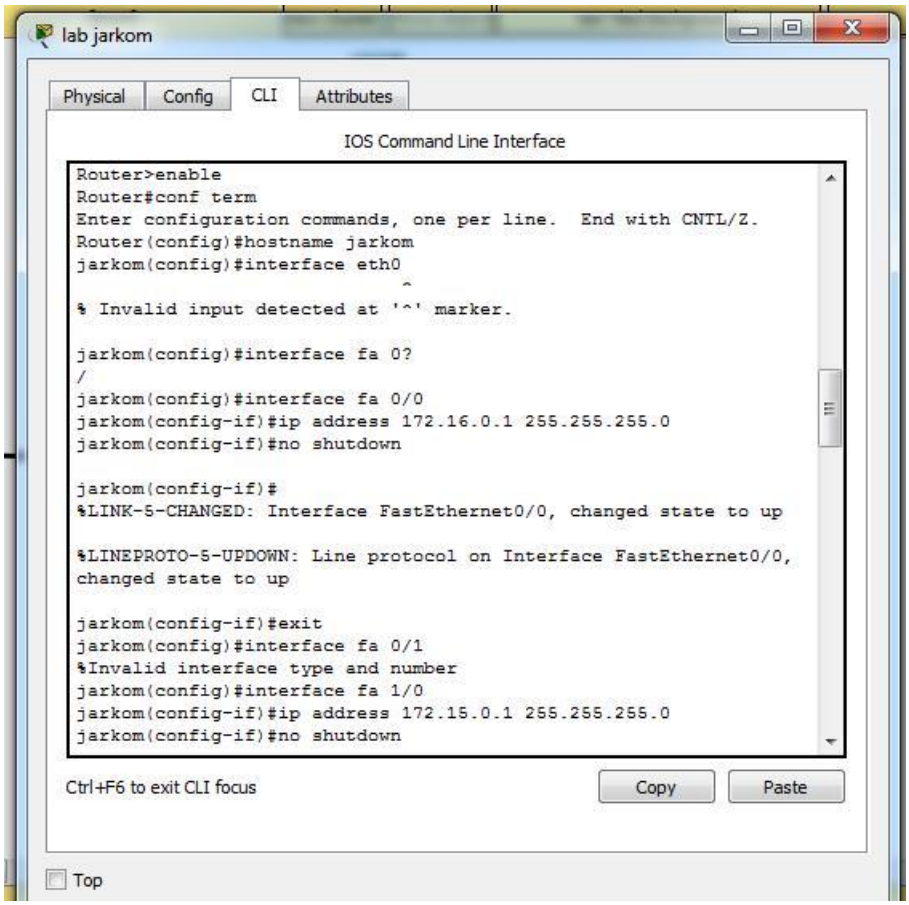
Nama : Dandung Rahmatdhan
NIM : L200170098
Kelas : C
Modul : 11

Kegiatan

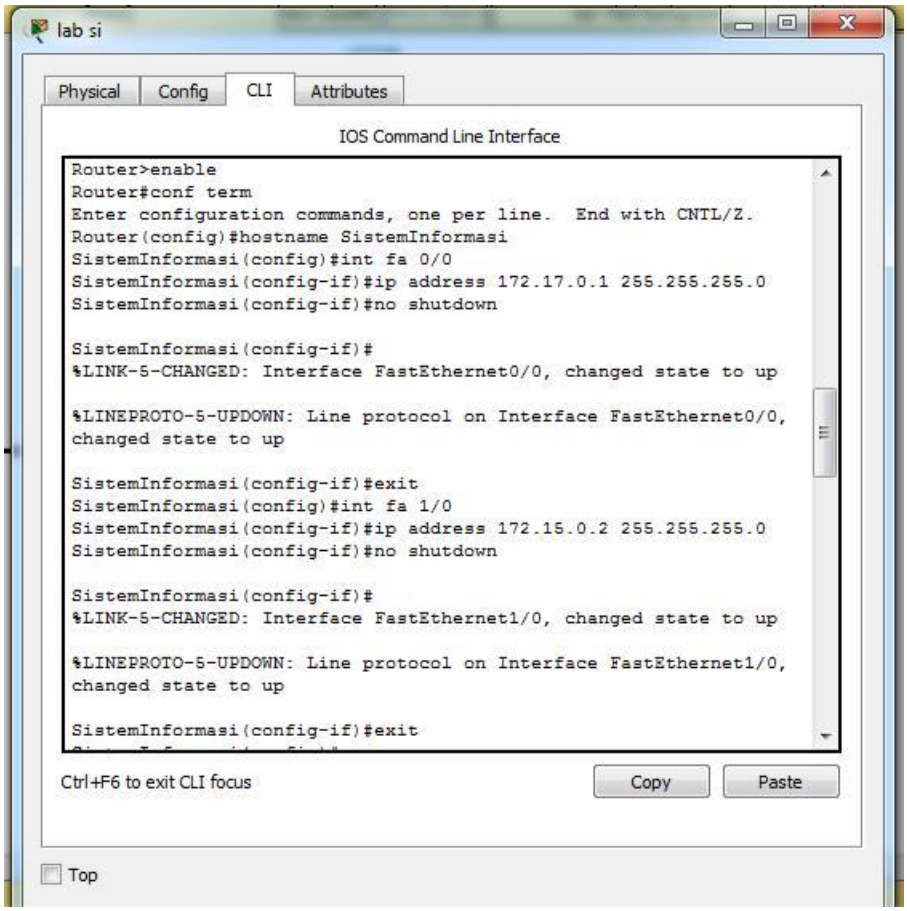
1. Topologi Jaringan



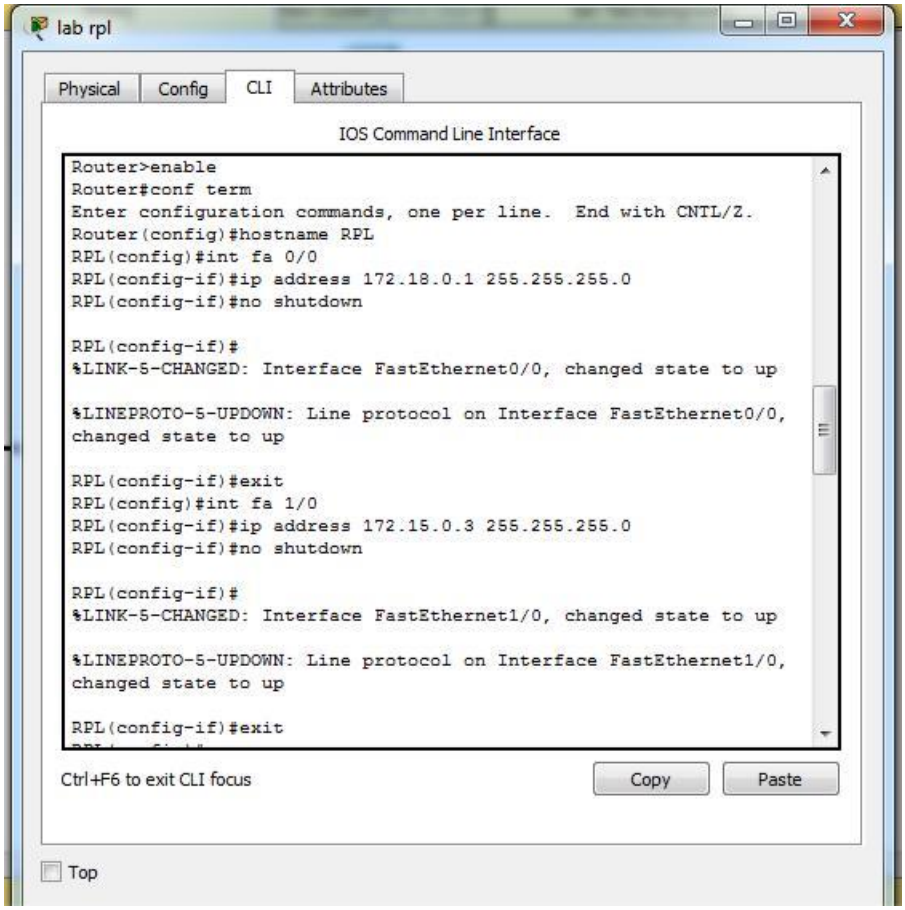
2. Konfigurasi Router
    - Router Lab Jarkom



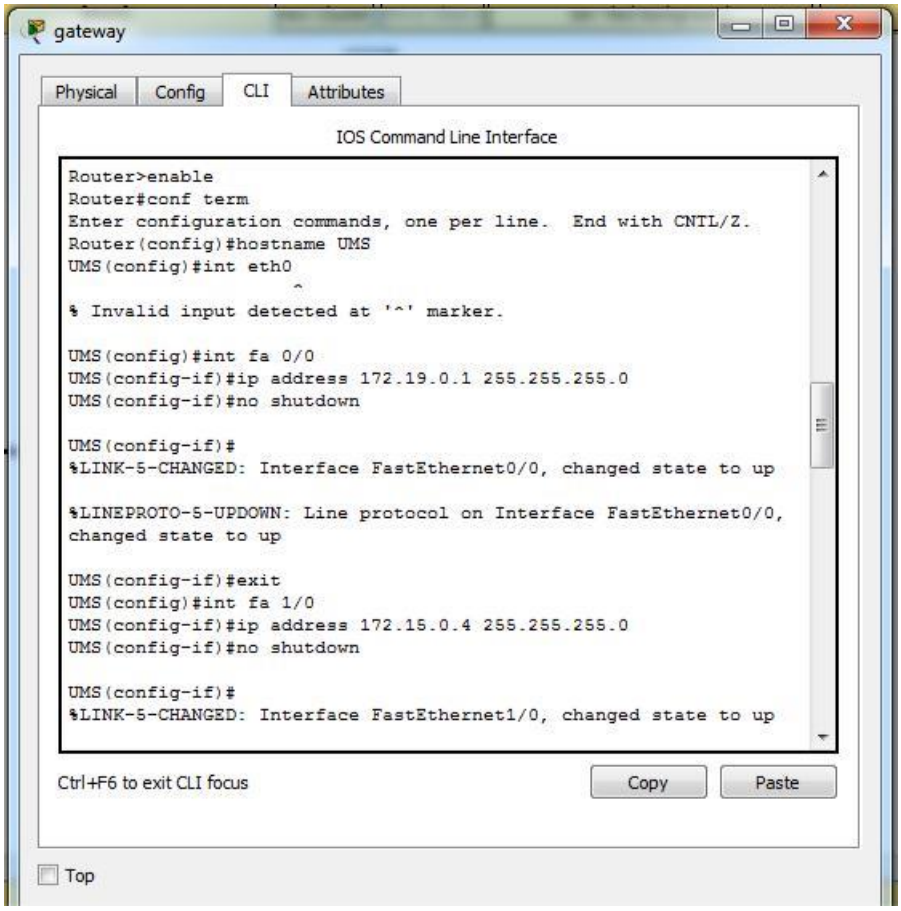
- Router Lab Sistem Informasi



- Router Lab RPL



- Router Gateway



3. Konfigurasi Routing Table
   - RIP Routing Router 1/ Jarkom

```
jarkom>enable
jarkom#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
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)#
```

   - RIP Routing Router 2/ Sistem Informasi

```
SistemInformasi>enable
SistemInformasi#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
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)#exit
SistemInformasi(config)#
```

- RIP Routing Router 3/ RPL

```
RPL>enable
RPL#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
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)#exit
RPL(config)#
```

- RIP Routing Router 4/ gateway UMS

```
UMS>enable
UMS#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
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)#exit
UMS(config)#
```

4. 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 172.19.0.1: Destination host unreachable.
Reply from 172.19.0.1: Destination host unreachable.
Reply from 172.19.0.1: Destination host unreachable.
Request timed out.

Ping statistics for 172.17.0.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
C:\>ping 172.18.0.2

Pinging 172.18.0.2 with 32 bytes of data:

Request timed out.
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 = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```