## LAPORAN PRAKTIKUM JARINGAN KOMPUTER

## MODUL 11

## "PERANCANGAN JARINGAN LABORATORIUM SEDERHANA MENGGUNAKAN PACKET TRACER"



## Oleh:

NAMA : Daffa Putra Alwansyah

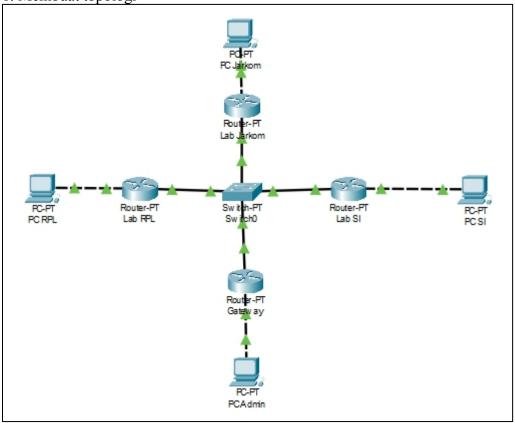
NIM : L200190031

KELAS : A

PRODI : INFORMATIKA

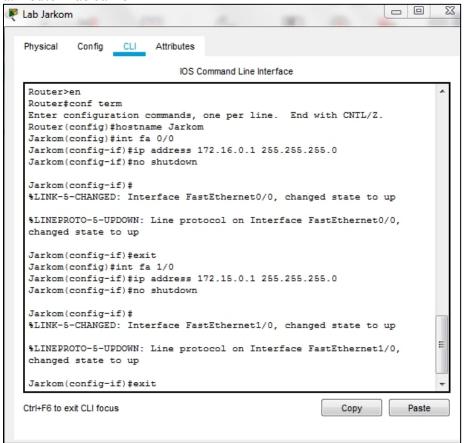
Fakultas Komunikasi dan Informatika Universitas Muhammadiyah Surakarta

# D. Kegiatan Praktikum 1. Membuat topologi

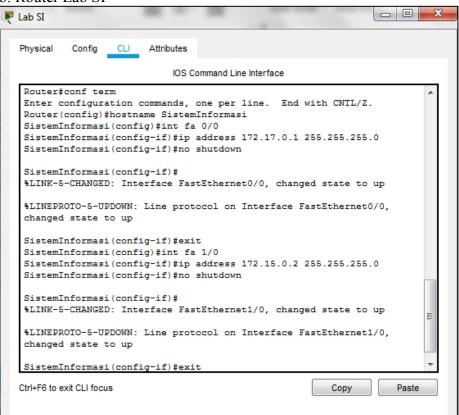


## 2. Konfigurasi Router

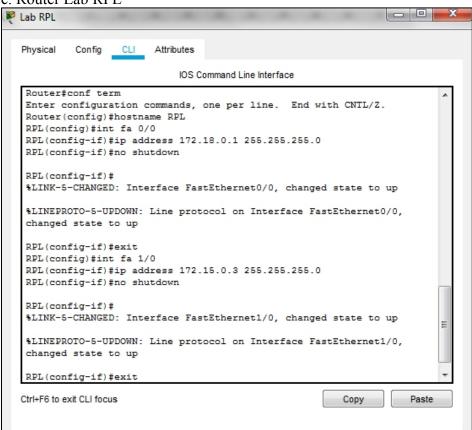
#### a. Router Lab Jarkom



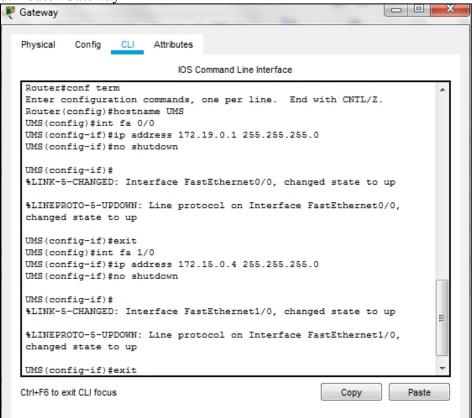
#### b. Router Lab SI



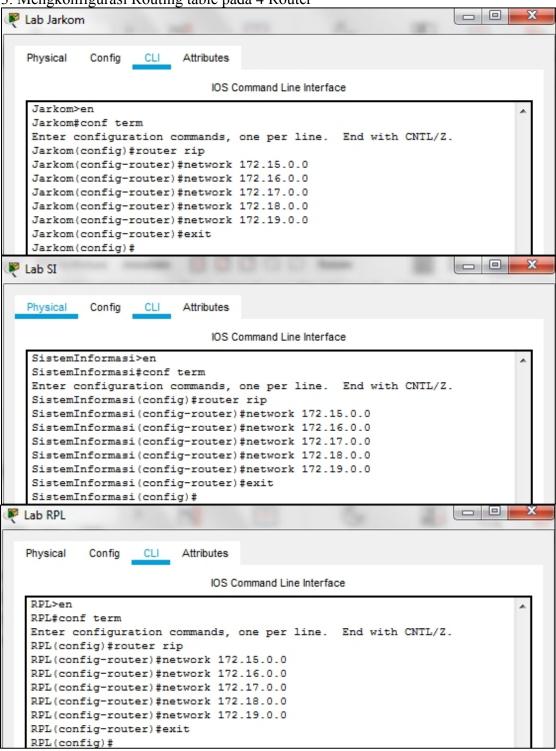
c. Router Lab RPL

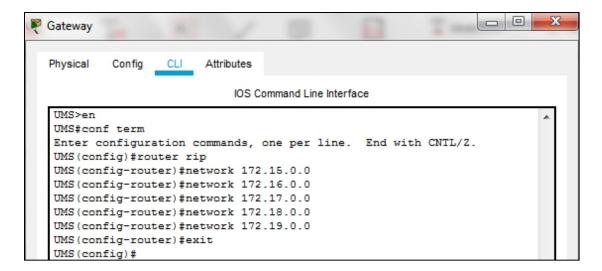


d. Router Gateway

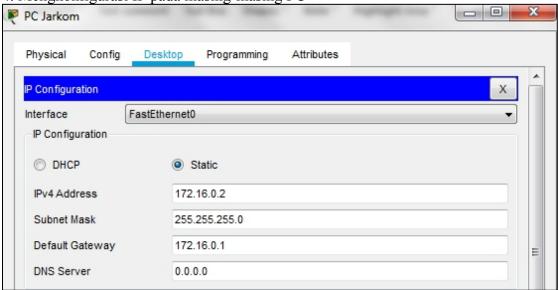


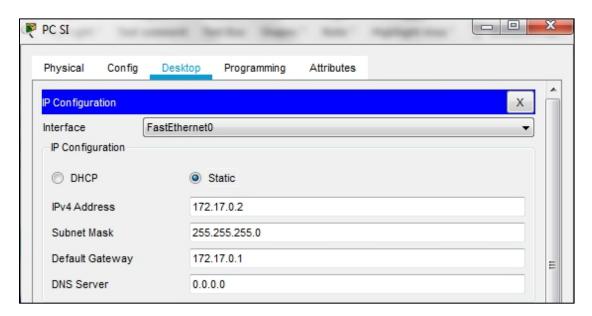
3. Mengkonfigurasi Routing table pada 4 Router

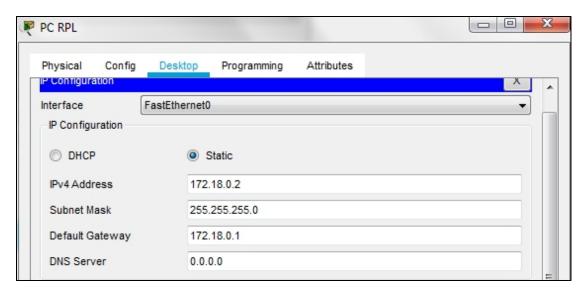


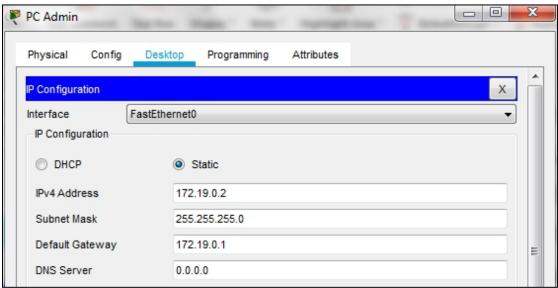


4. Mengkonfigurasi IP pada masing-masing PC



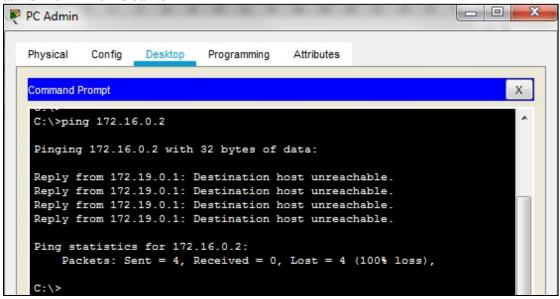






5. Melakukan ping dari PC Admin ke semua PC

a. PC Admin ke PC Jarkom



#### b. PC Admin ke PC SI

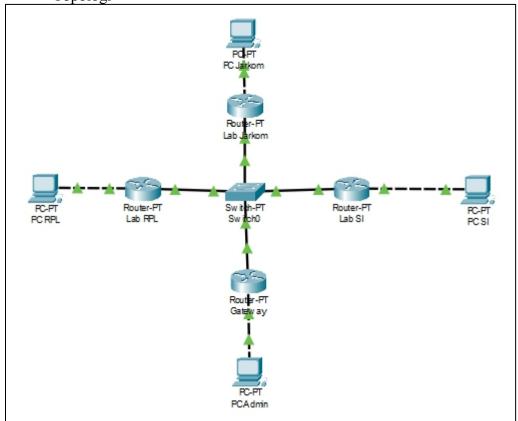
```
PC Admin
  Physical
           Config
                    Desktop
                             Programming
                                         Attributes
  Command Prompt
                                                                          X
   C:\>ping 172.17.0.2
   Pinging 172.17.0.2 with 32 bytes of data:
   Reply from 172.19.0.1: Destination host unreachable.
   Request timed out.
   Reply from 172.19.0.1: Destination host unreachable.
   Reply from 172.19.0.1: Destination host unreachable.
   Ping statistics for 172.17.0.2:
       Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
   C:\>
```

c. PC Admin ke PC RPL

```
PC Admin
  Physical
           Config
                    Desktop
                             Programming
                                          Attributes
  Command Prompt
                                                                          Х
   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
   Ping statistics for 172.18.0.2:
       Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
   Approximate round trip times in milli-seconds:
       Minimum = Oms, Maximum = Oms, Average = Oms
   C:\>
```

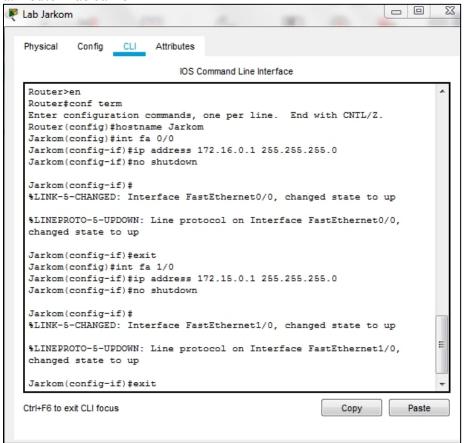
## **Tugas**

- 1. Membuat topologi jaringan menggunakan routing statis.
  - a. Membuat routing statis dari soal nomor 1.
  - Topologi

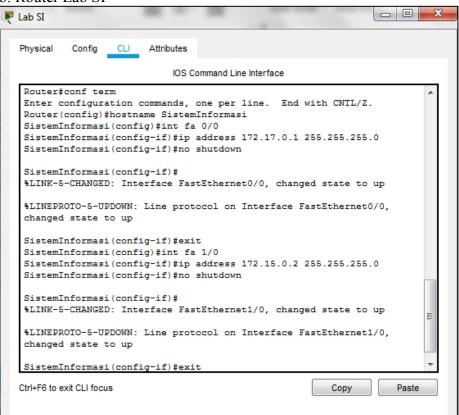


## 2. Konfigurasi Router

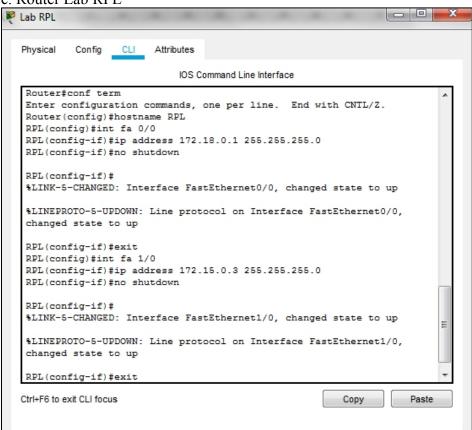
#### a. Router Lab Jarkom



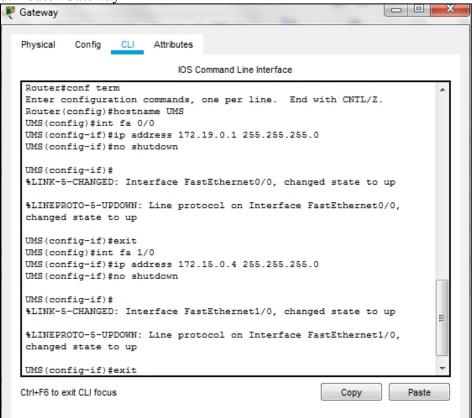
#### b. Router Lab SI



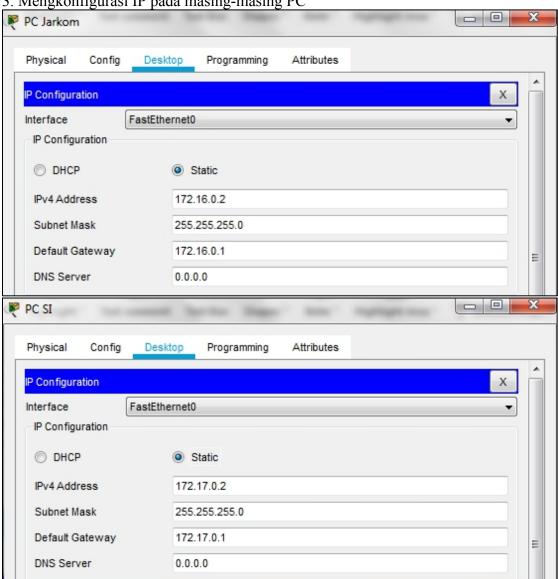
c. Router Lab RPL

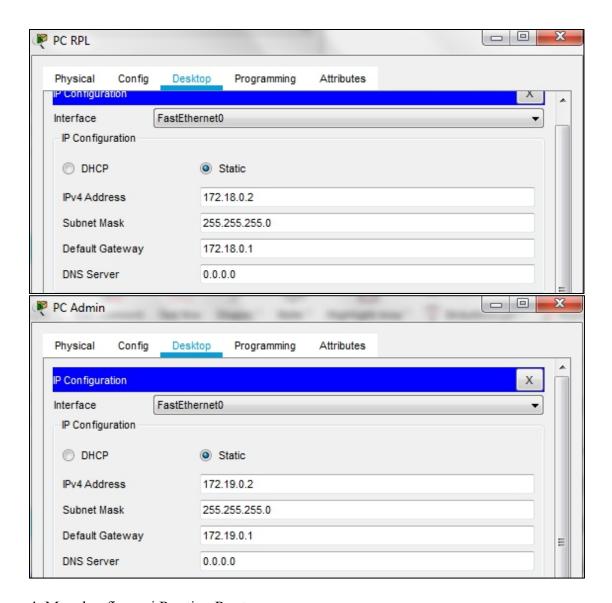


d. Router Gateway

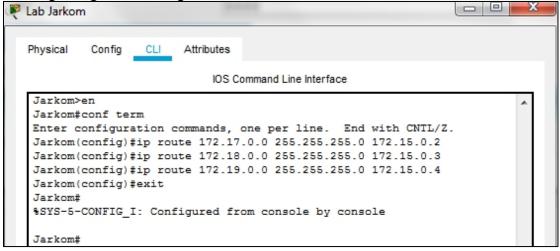


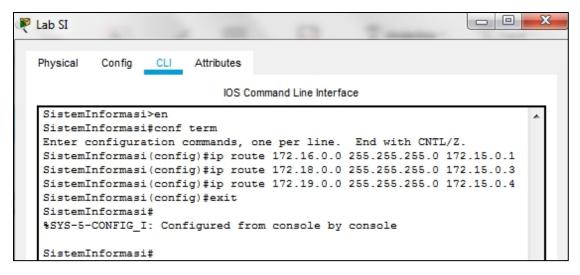
3. Mengkonfigurasi IP pada masing-masing PC

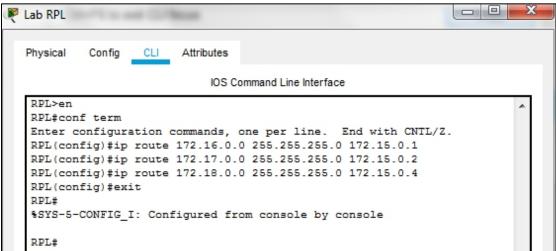


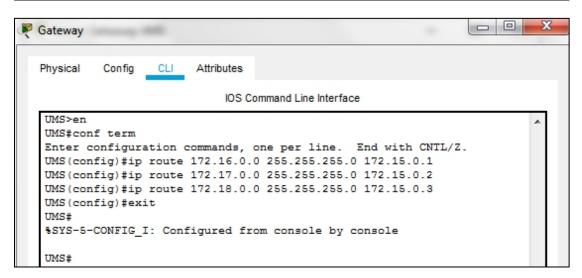


4. Mengkonfigurasi Routing Router



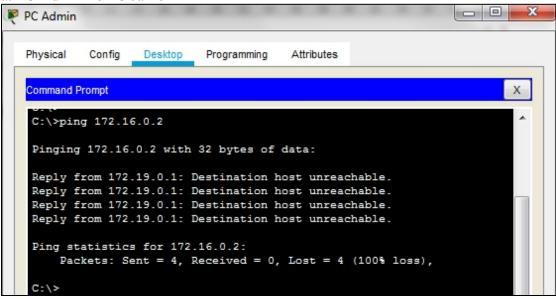






5. Menguji konektivitas antar PC klien.

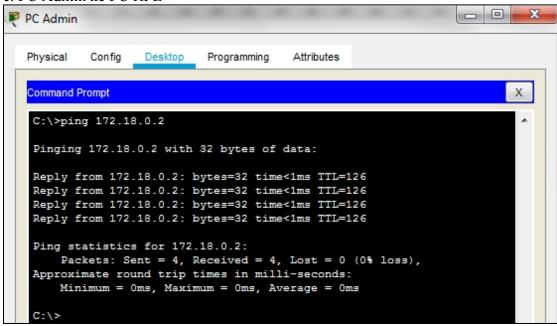
a. PC Admin ke PC Jarkom



#### b. PC Admin ke PC SI

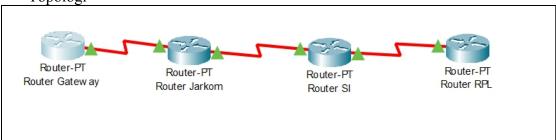
```
PC Admin
  Physical
           Config
                   Desktop
                             Programming
                                         Attributes
  Command Prompt
                                                                          Х
   C:\>ping 172.17.0.2
   Pinging 172.17.0.2 with 32 bytes of data:
   Reply from 172.19.0.1: Destination host unreachable.
   Request timed out.
   Reply from 172.19.0.1: Destination host unreachable.
   Reply from 172.19.0.1: Destination host unreachable.
   Ping statistics for 172.17.0.2:
       Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
   C:\>
```

c. PC Admin ke PC RPL

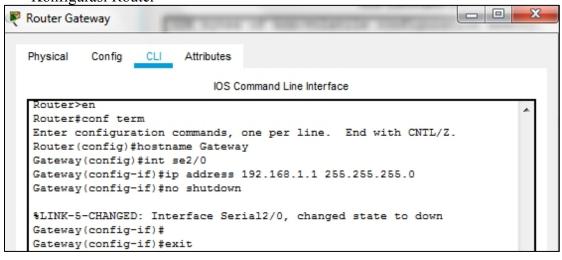


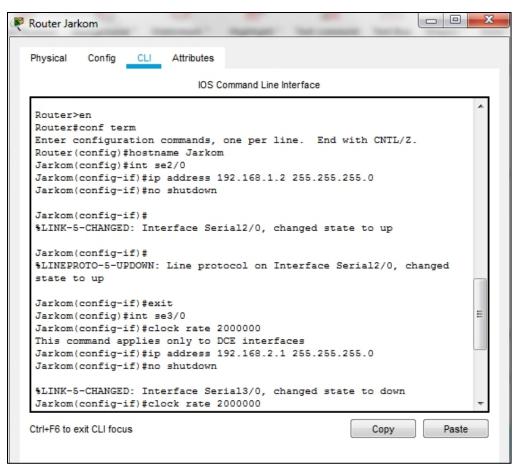
- 2. Membuat topologi jaringan BUS untuk membangun sebuah laboratorium komputer yang terdiri dari 3 router (jarkom, rpl, SI) dan berpusat pada 1 router gateaway, dengan metode routing :
- a. Statis

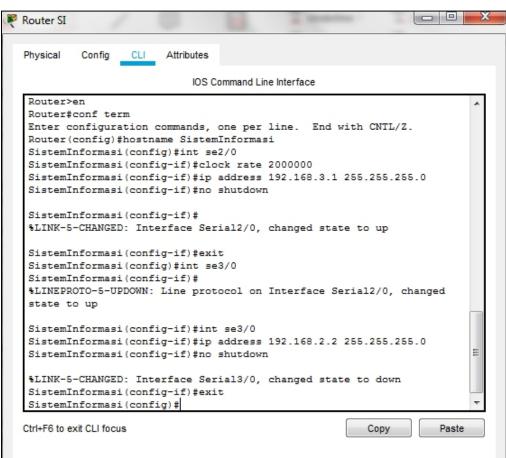
==>Topologi

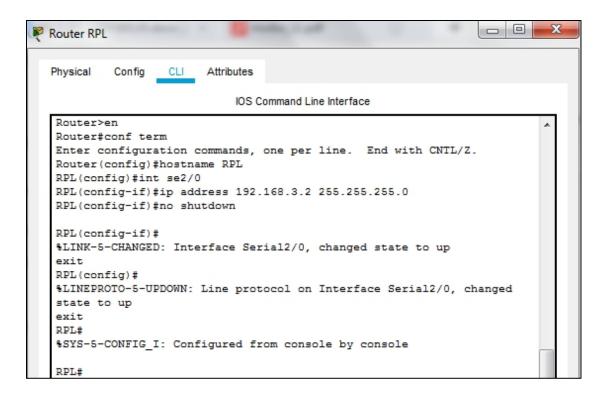


==>Konfigurasi Router

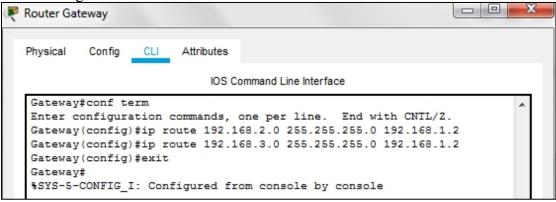


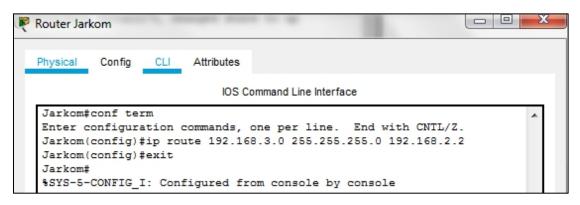


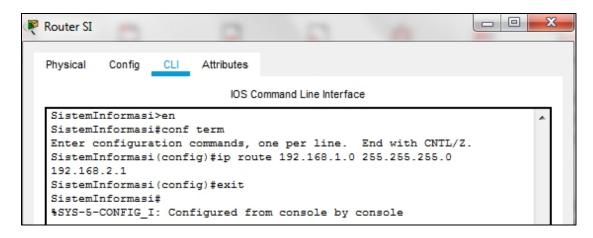


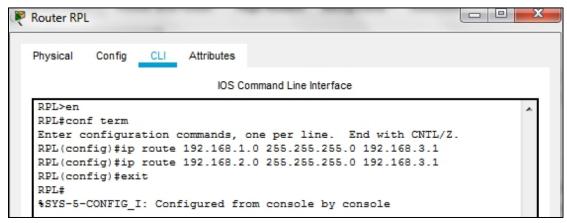


==> Routing router.

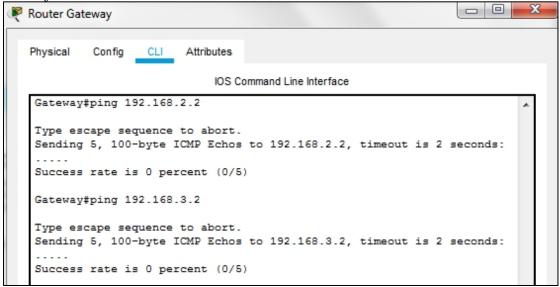








#### ==> Uji Koneksivitas



#### b. Dinamis

