LAPORAN

PRAKTIKUM JARINGAN DAN KOMPUTER

(MODUL 11)

"PERANCANGAN JARINGAN LABORATORIUM SEDERHANA MENGGUNAKAN PACKET TRACER"



Disusun oleh:

NAMA : CINDI DILA APRILIANA

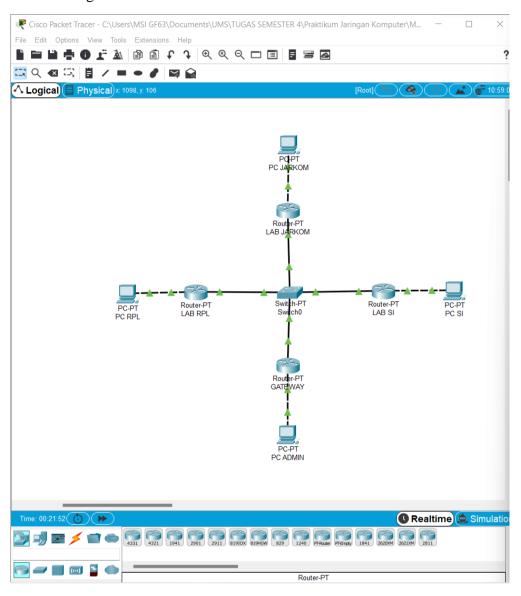
NIM : L200200106

KELAS : C

INFORMATIKA FAKULTAS KOMUNIKASI DAN INFORMATIKA UNIVERSITAS MUHAMMADIYAH SURAKARTA TAHUN 2021/2022

Kegiatan Praktikum

1. Desain Jaringan

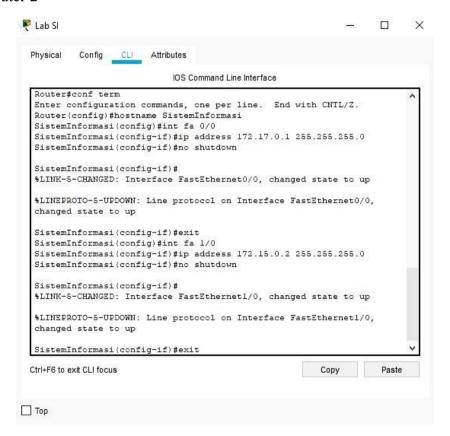


2. Konfigurasi router

• Router 1



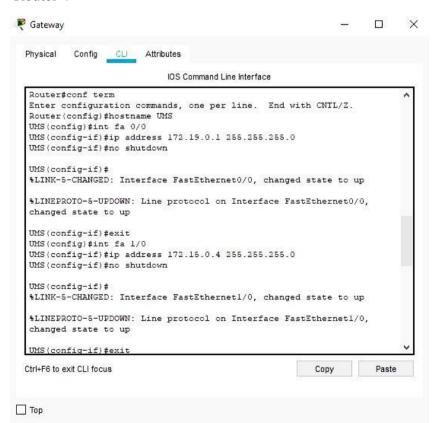
• Router 2



• Router 3

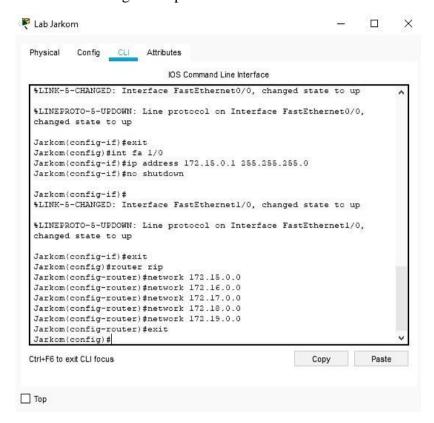


• Router 4



3. Konfigurasi routing table pada 4 router

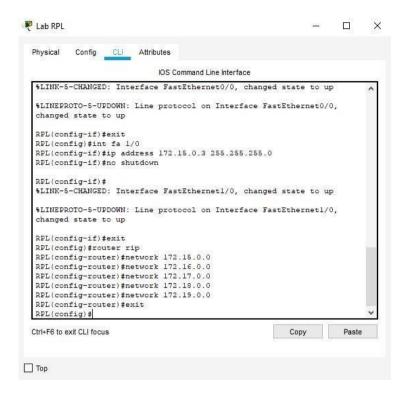
• Membuat Routing Table pada router1 / Jarkom



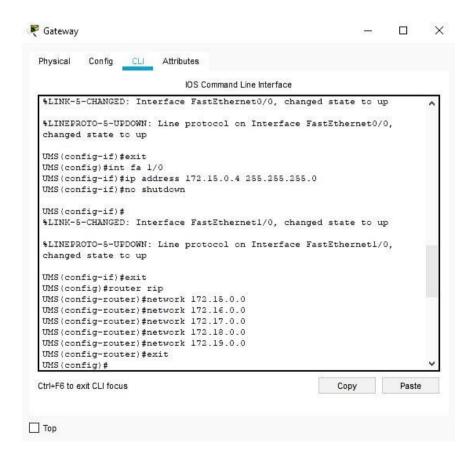
Membuat Routing Table pada router2 / SistemInformasi



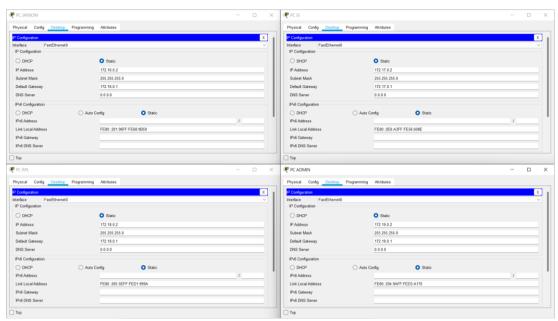
• Membuat Routing Table pada router3 / RPL



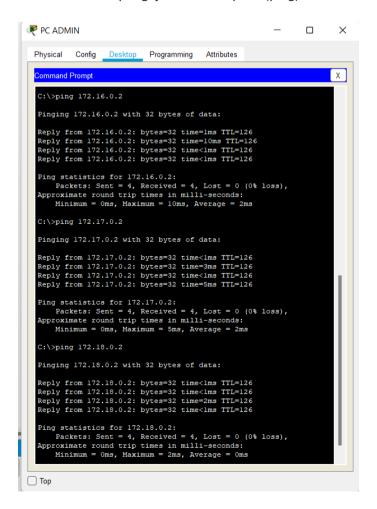
• Membuat Routing Table pada router4 / gateaway UMS



4. Konfigurasi masing-masing PC

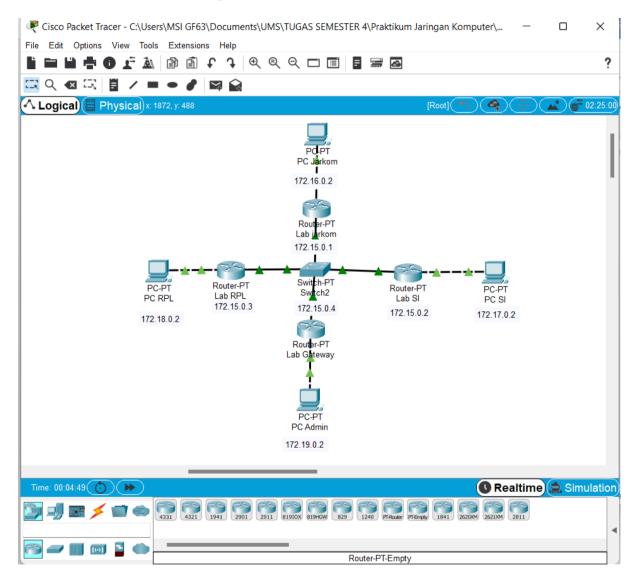


Lakukan pengujian ICMP request (ping)



Tugas

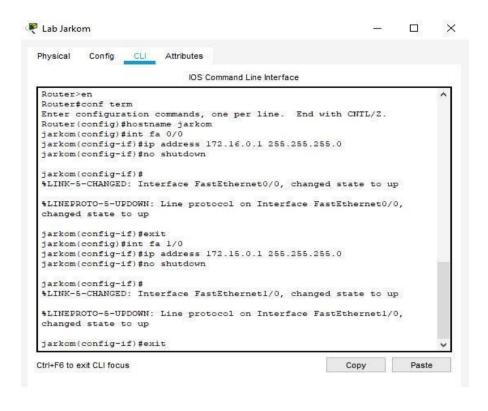
- 1. Buatlah topologi jaringan serupa dengan gambar 10.1, namun metode routing yang digunakan adalah routing statis
 - a. Buatlah tabel routing statis dari soal no 1

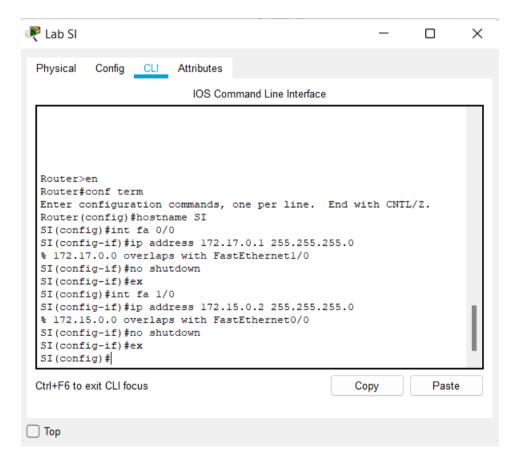


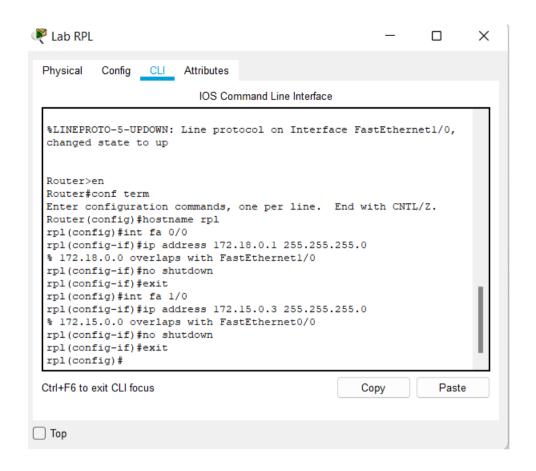
Petunjuk tabel routing statis pada router cisco

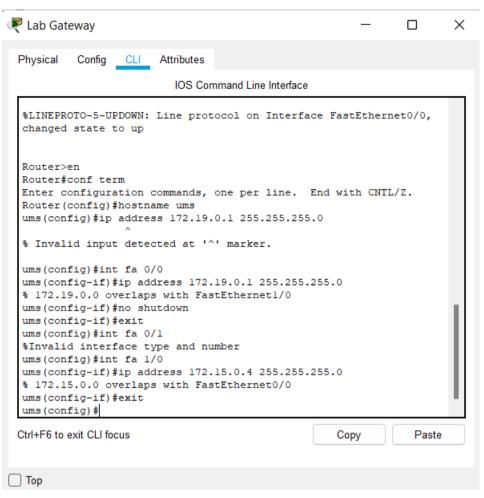
#ip route <ip network ID tujuan><subnet mask network tujuan><ip next hop-interface tetangga terdekat>

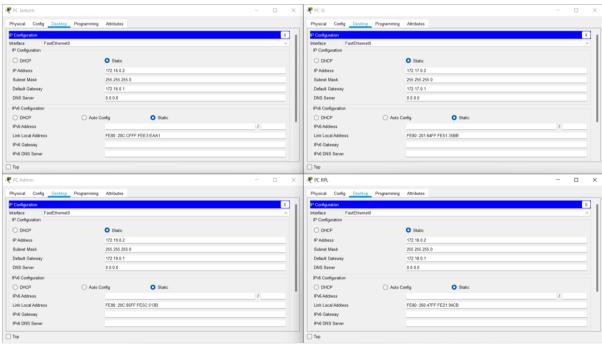
• Konfigurasi masing-masing router











Melakukan routing pada masing-masing router 🧗 Lab jarkom X Physical Config CLI Attributes IOS Command Line Interface Press RETURN to get started. jarkom>en jarkom#conf term Enter configuration commands, one per line. End with CNTL/Z. jarkom(config) #ip route 172.18.0.0 255.255.255.0 172.15.0.3 jarkom(config) #ip route 172.17.0.0 255.255.255.0 172.15.0.2 jarkom(config) #ip route 172.19.0.0 255.255.255.0 172.15.0.4 jarkom(config)# Ctrl+F6 to exit CLI focus Paste Copy **Тор** Lab SI Physical Config CLI Attributes IOS Command Line Interface si(config) #int fa 0/0 si(config-if)#ip address 172.17.0.1 255.255.255.0 si(config-if) #no shutdown %LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up si(config-if)#exit si(config)#int fa 1/0 si(config-if)#ip address 172.15.0.2 255.255.255.0 si(config-if)#no shutdown %LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

si(config-if) #exit

si(config)#
Ctrl+F6 to exit CLI focus

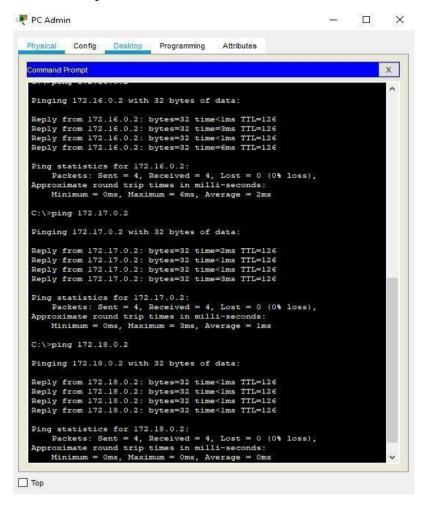
Тор

si(config) #ip route 172.16.0.0 255.255.255.0 172.15.0.1 si(config) #ip route 172.18.0.0 255.255.255.0 172.15.0.3 si(config) #ip route 172.19.0.0 255.255.255.0 172.15.0.4

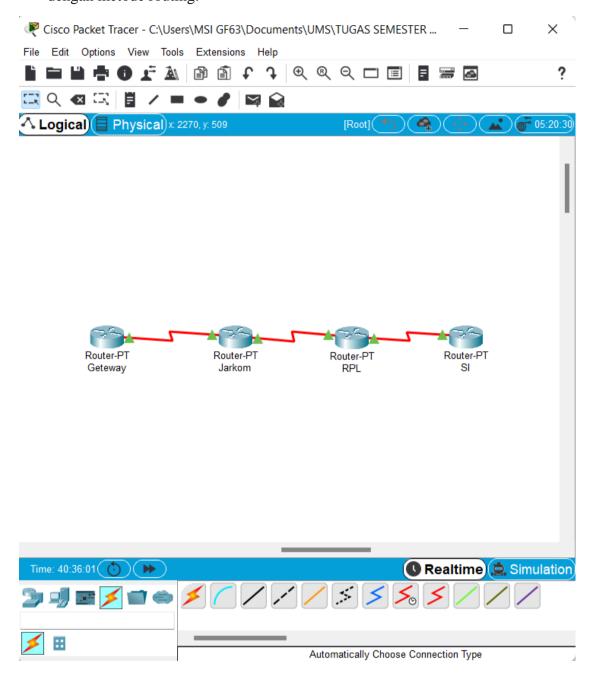
Сору



b. Melakukan uji konektivitas



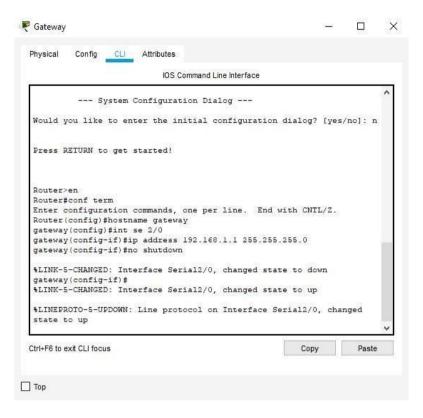
2. Buatlah topologi jaringan BUS untuk membangun sebuah laboratorium computer yang terdiri dari 3 router (Jarkom, RPL, SI) dan berpusat pada 1 router gateway, dengan metode routing:

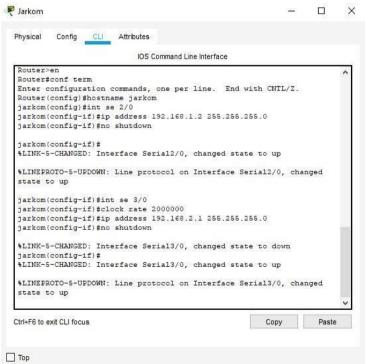


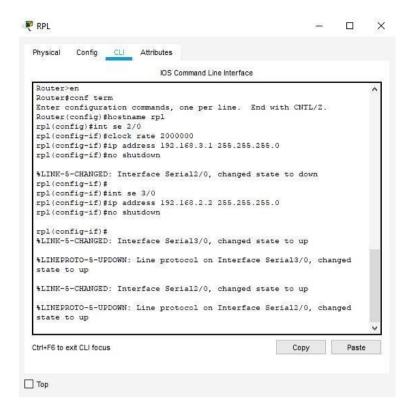
a. Statis

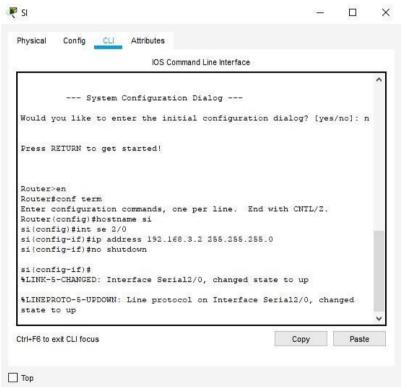
Petunjuk untuk routing statis, gunakan default gateway 0.0.0.0/0 pada topologi dibawah router gateway ketika route data akan menuju gateway.

1. Konfigurasi router (Gateway, Jarkom, RPL, SI).

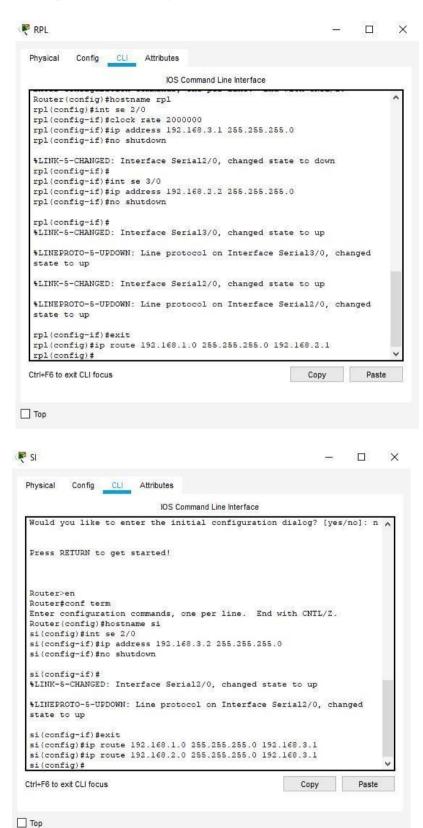




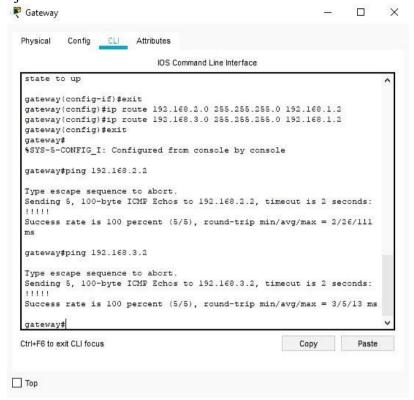




2. Routing router (Gateway, Jarkom, RPL, SI).

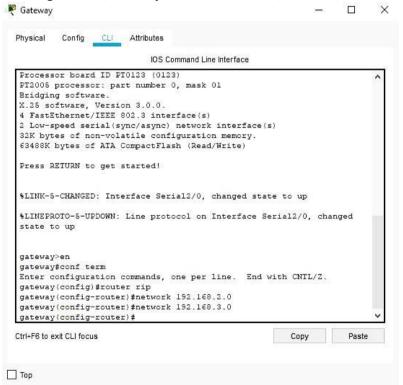


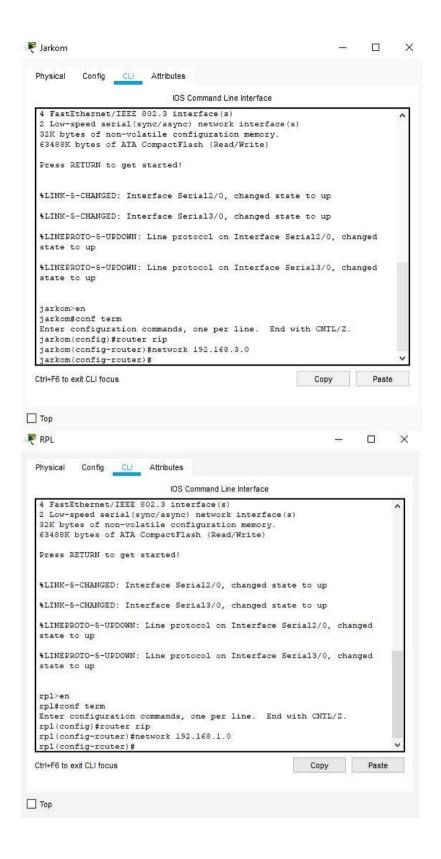
3. Uji konektivitas

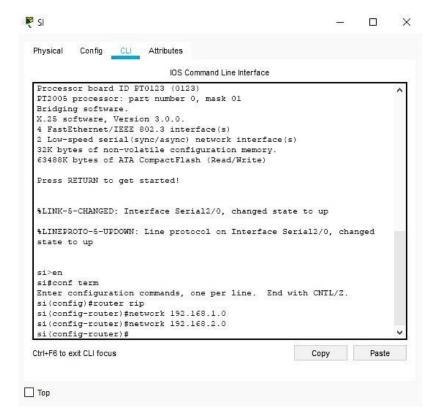


b. Dinamis

1. Routing router (Gateway, Jarkom, RPL, SI).







2. Uji konektivitas.

