LAPORAN PRAKTIKUM AKHIR
MATA KULIAH PRAKTIKUM KONSEP JARINGAN

Dosen :

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Oleh :

Amirotul Ummah (3122600017) – 2 D4 Teknik Informatika A

PROGRAM STUDI SARJANA TERAPAN TEKNIK INFORMATIKA

DEPARTEMEN TEKNIK INFORMATIKA DAN KOMPUTER

POLITEKNIK ELEKTRONIKA NEGERI SURABAYA

SURABAYA

2023

SOAL UAS Semester Gasal 2021/2022
Matkul : Praktikum Konsep Jaringan
Dosen : Ferry Astika S
Waktu pengerjaan : 1 jam 30 menit (09:30-11:00)

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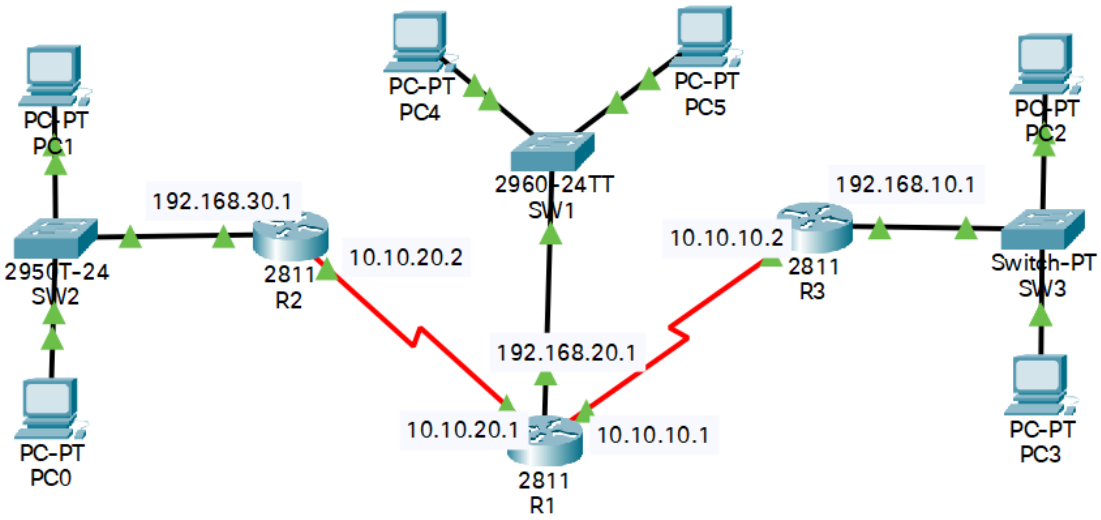
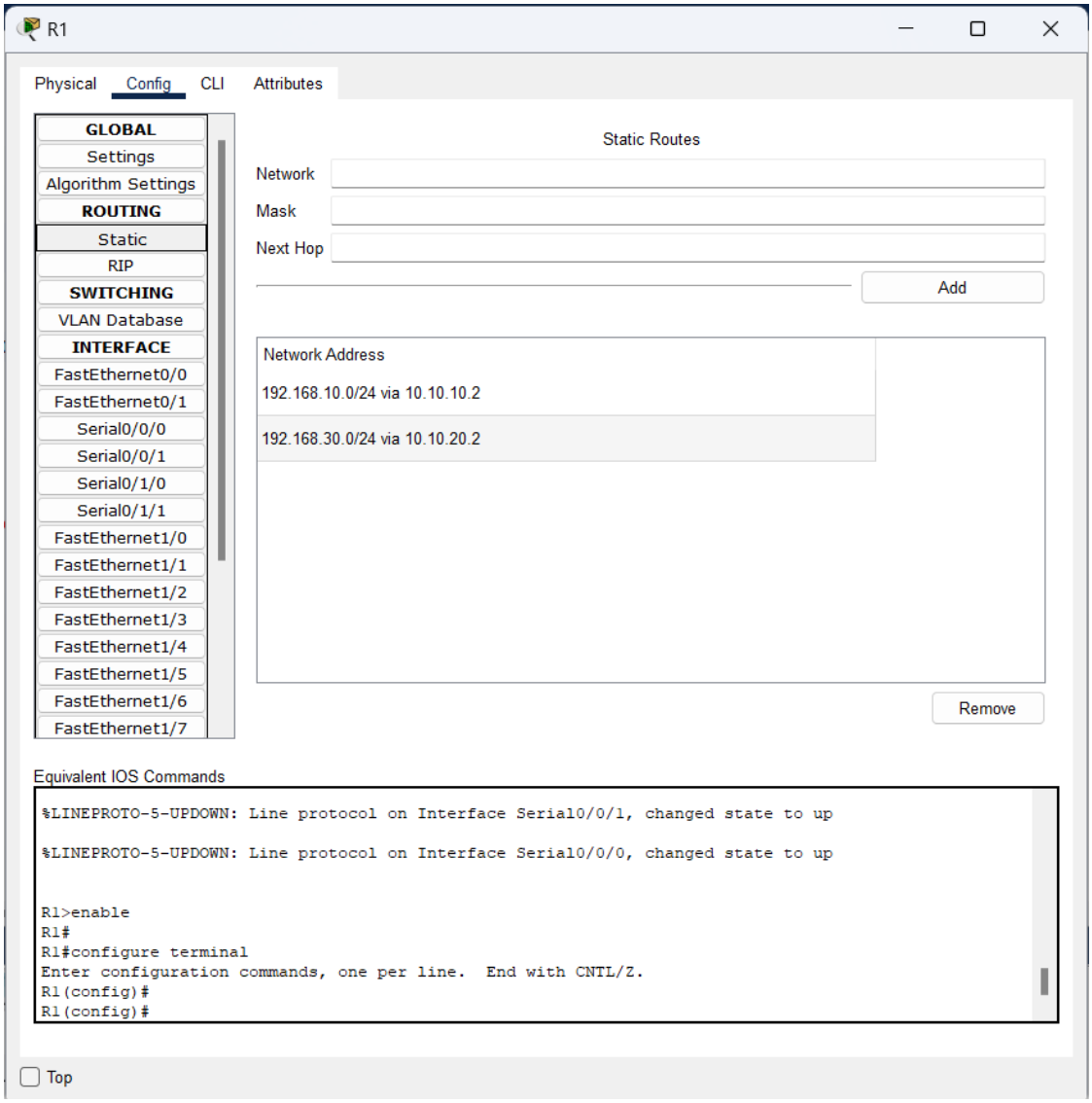
1. Diketahui jaringan dengan topologi (file:Soal-1.pkt) :



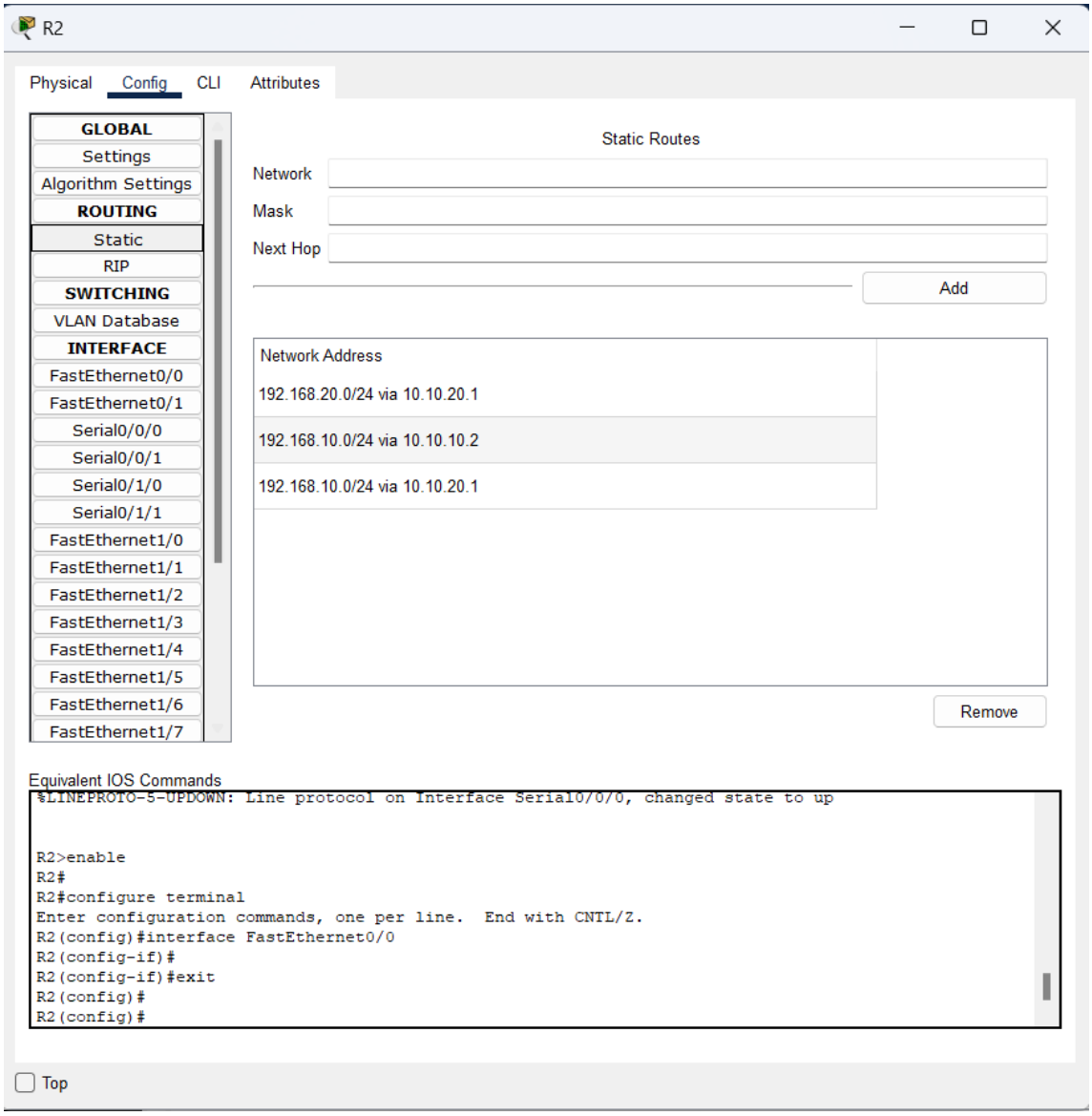
Konfigurasikan tabel routing pada R1, R2 dan R3 dengan menggunakan statik routing sehungga seluruh PC yang ada dapat terhubung dengan baik. (20%)

Jawaban :

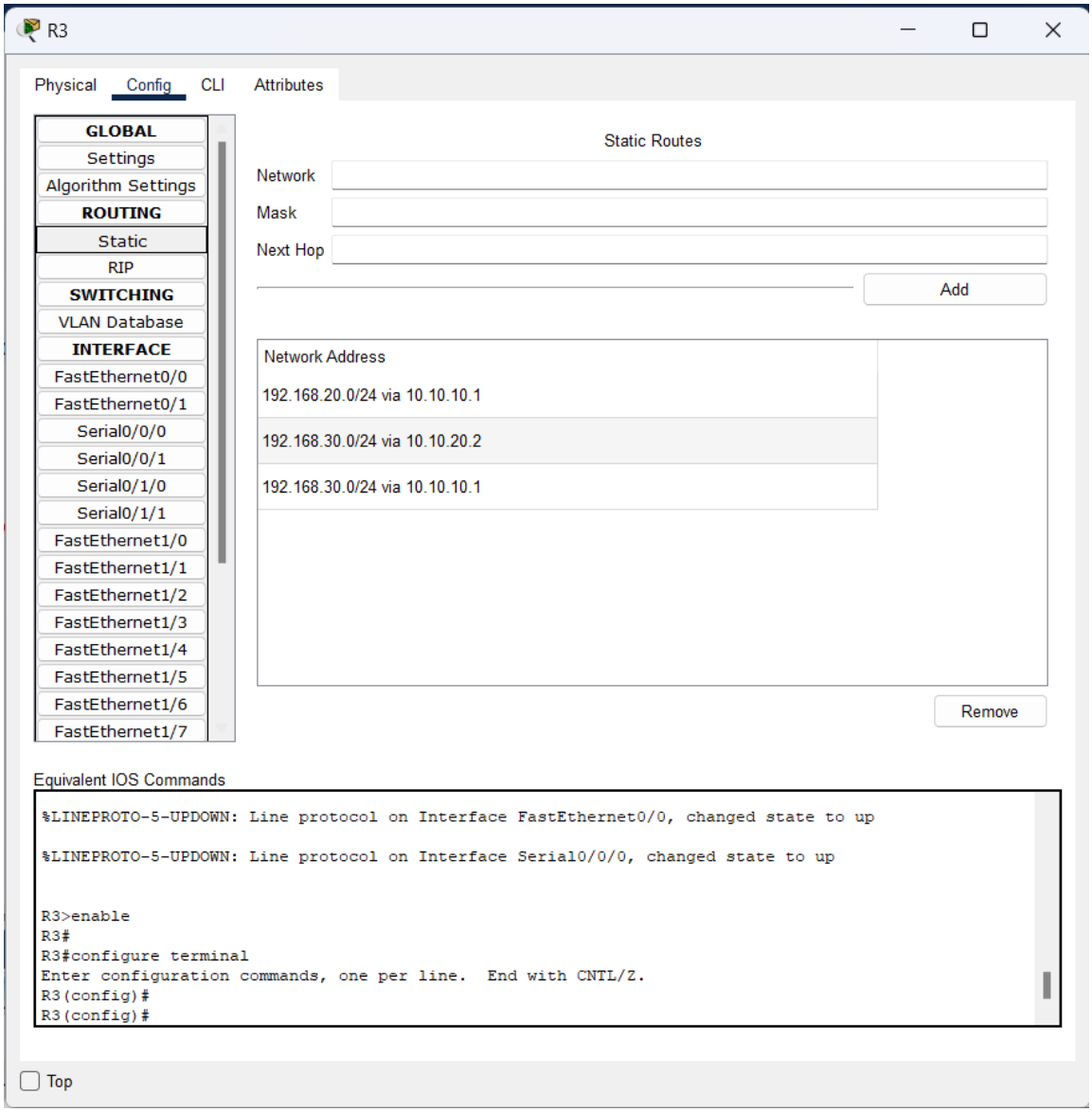
Konfigurasi Router 1



Konfigurasi Router 2

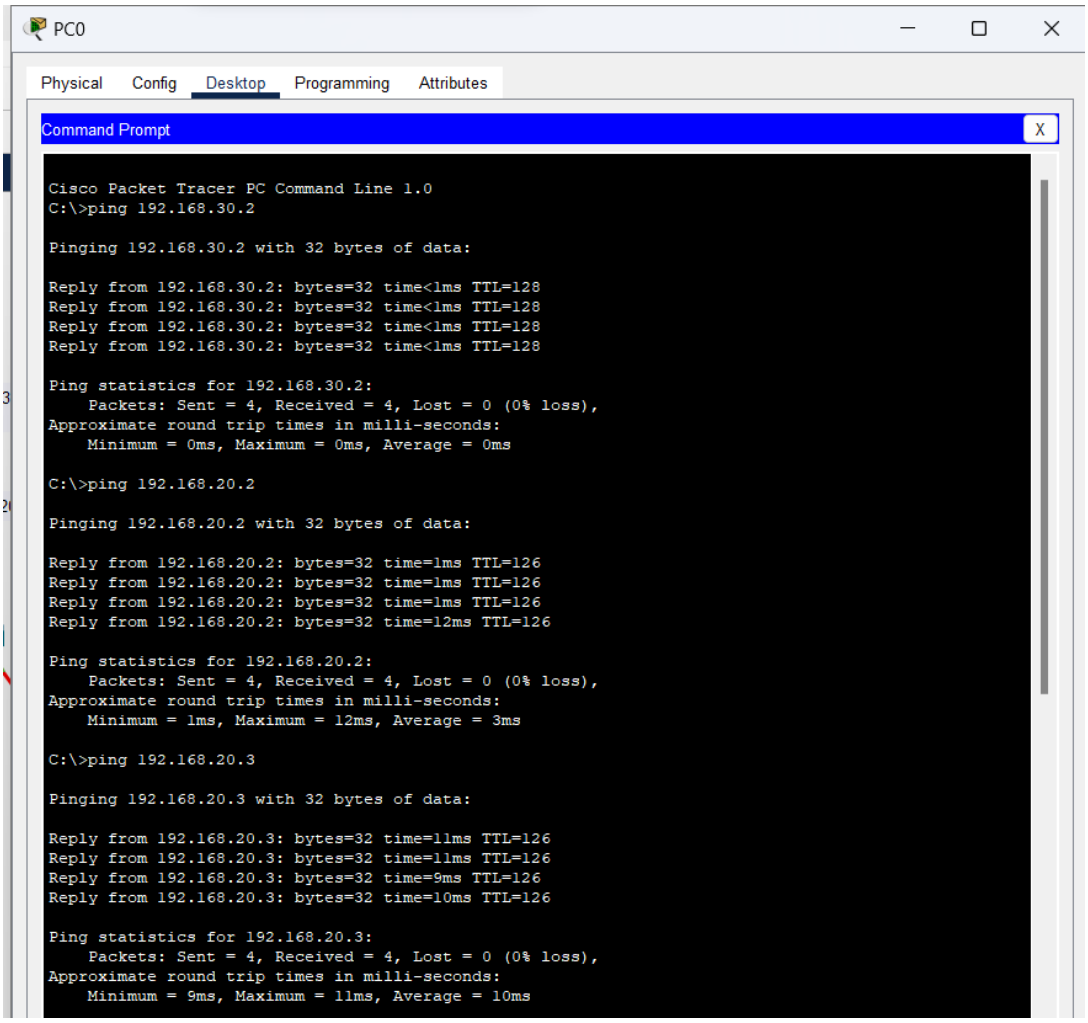


Konfigurasi Router 3

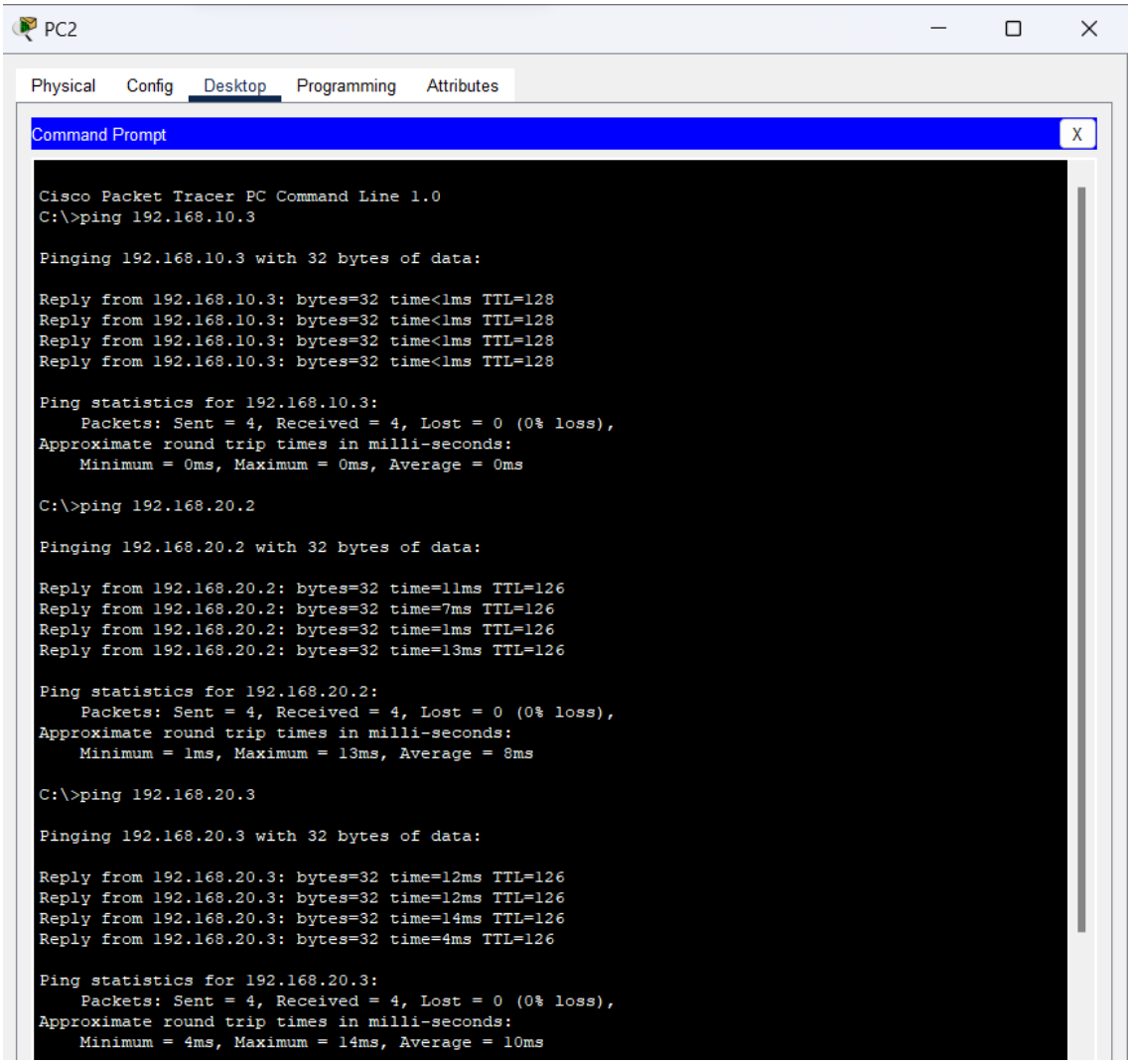


Konektivitas PC

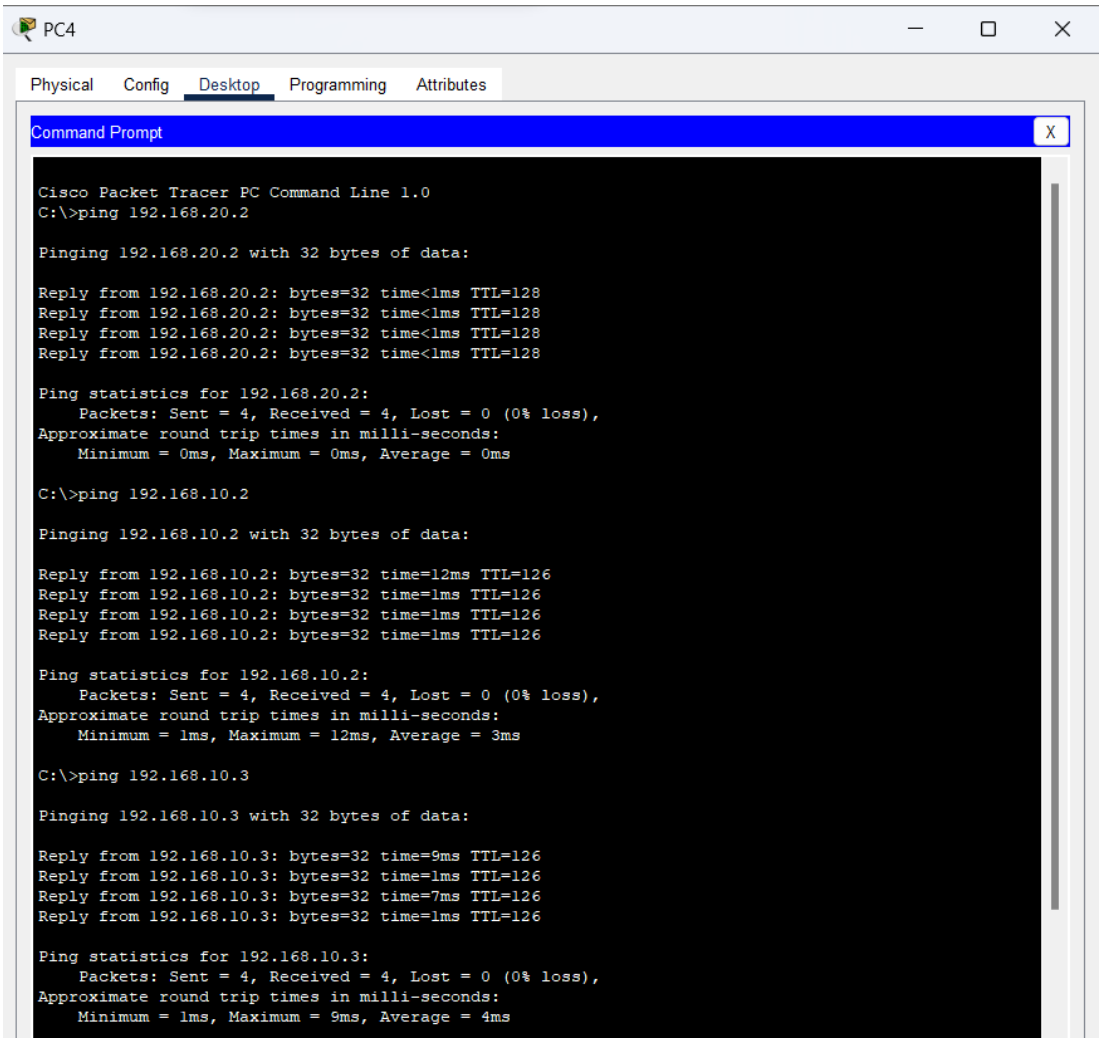
a. PC0



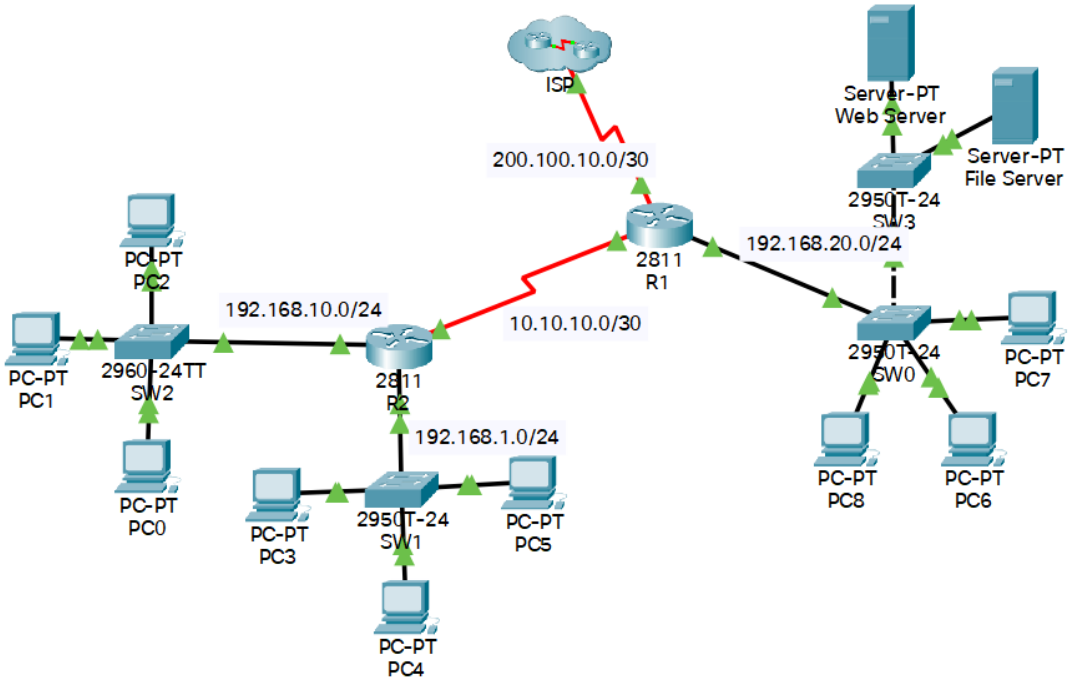
b. PC2


PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.3
Pinging 192.168.10.3 with 32 bytes of data:
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.20.2
Pinging 192.168.20.2 with 32 bytes of data:
Reply from 192.168.20.2: bytes=32 time=11ms TTL=126
Reply from 192.168.20.2: bytes=32 time=7ms TTL=126
Reply from 192.168.20.2: bytes=32 time=1ms TTL=126
Reply from 192.168.20.2: bytes=32 time=13ms TTL=126
Ping statistics for 192.168.20.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 13ms, Average = 8ms
C:\>ping 192.168.20.3
Pinging 192.168.20.3 with 32 bytes of data:
Reply from 192.168.20.3: bytes=32 time=12ms TTL=126
Reply from 192.168.20.3: bytes=32 time=12ms TTL=126
Reply from 192.168.20.3: bytes=32 time=14ms TTL=126
Reply from 192.168.20.3: bytes=32 time=4ms TTL=126
Ping statistics for 192.168.20.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 4ms, Maximum = 14ms, Average = 10ms

c. PC4


PC4
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.20.2
Pinging 192.168.20.2 with 32 bytes of data:
Reply from 192.168.20.2: bytes=32 time<1ms TTL=128
Reply from 192.168.20.2: bytes=32 time<1ms TTL=128
Reply from 192.168.20.2: bytes=32 time<1ms TTL=128
Reply from 192.168.20.2: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.20.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.10.2
Pinging 192.168.10.2 with 32 bytes of data:
Reply from 192.168.10.2: bytes=32 time=12ms TTL=126
Reply from 192.168.10.2: bytes=32 time=1ms TTL=126
Reply from 192.168.10.2: bytes=32 time=1ms TTL=126
Reply from 192.168.10.2: bytes=32 time=1ms TTL=126
Ping statistics for 192.168.10.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 12ms, Average = 3ms
C:\>ping 192.168.10.3
Pinging 192.168.10.3 with 32 bytes of data:
Reply from 192.168.10.3: bytes=32 time=9ms TTL=126
Reply from 192.168.10.3: bytes=32 time=1ms TTL=126
Reply from 192.168.10.3: bytes=32 time=7ms TTL=126
Reply from 192.168.10.3: bytes=32 time=1ms TTL=126
Ping statistics for 192.168.10.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 9ms, Average = 4ms

2. Diketahui jaringan dengan topologi (file:Soal-2.pkt):

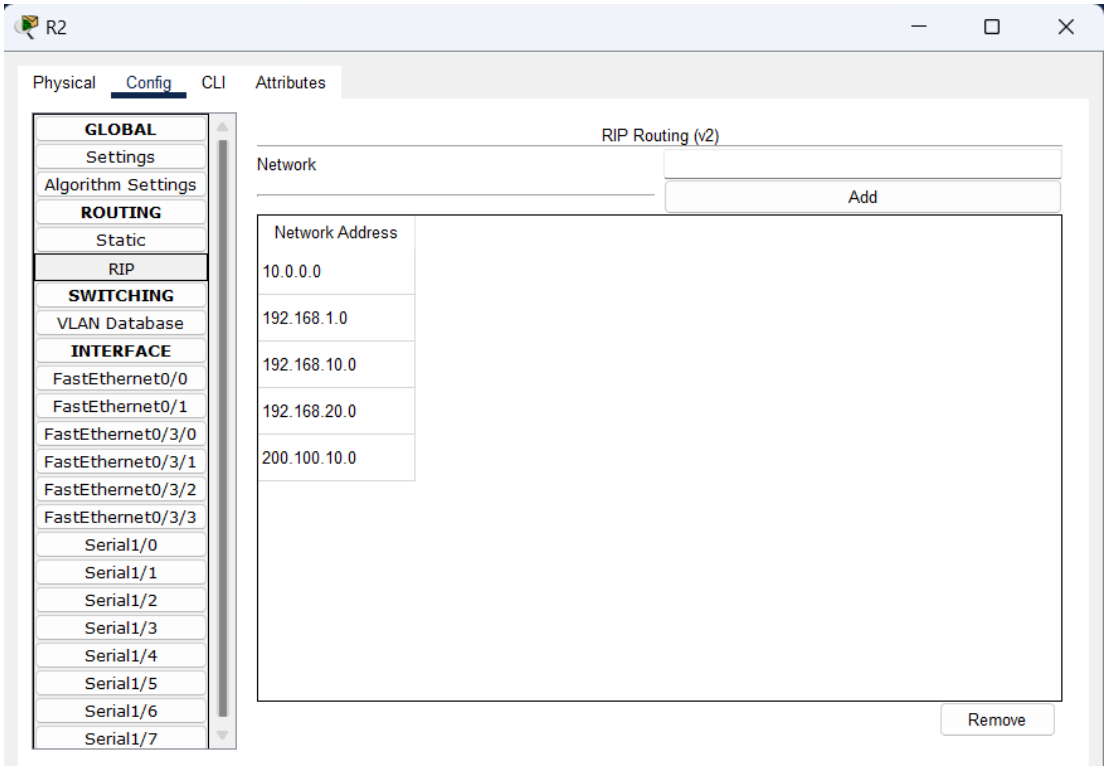


Kofigurasi tabel routing pada R1, R2 dan R3 dengan menggunakan RIP sehingga seluruh PC dapat terhubung ke ISP dengan baik.(20%)

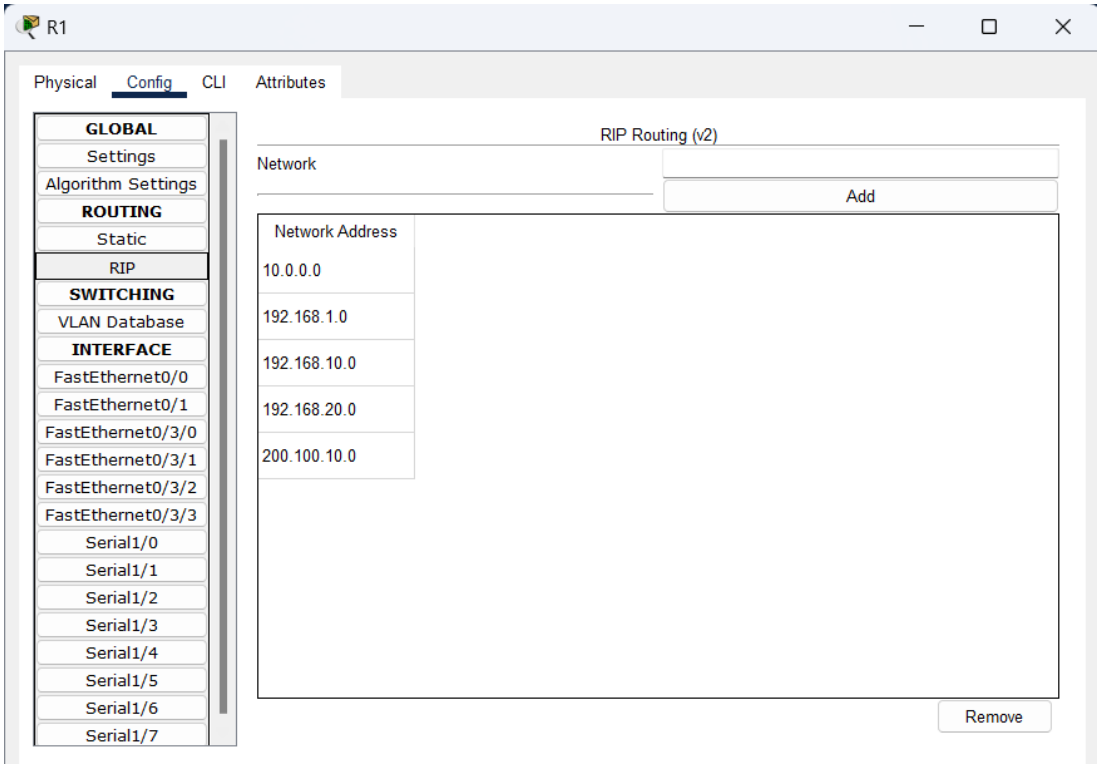
Jawaban :

Konfigurasi Router

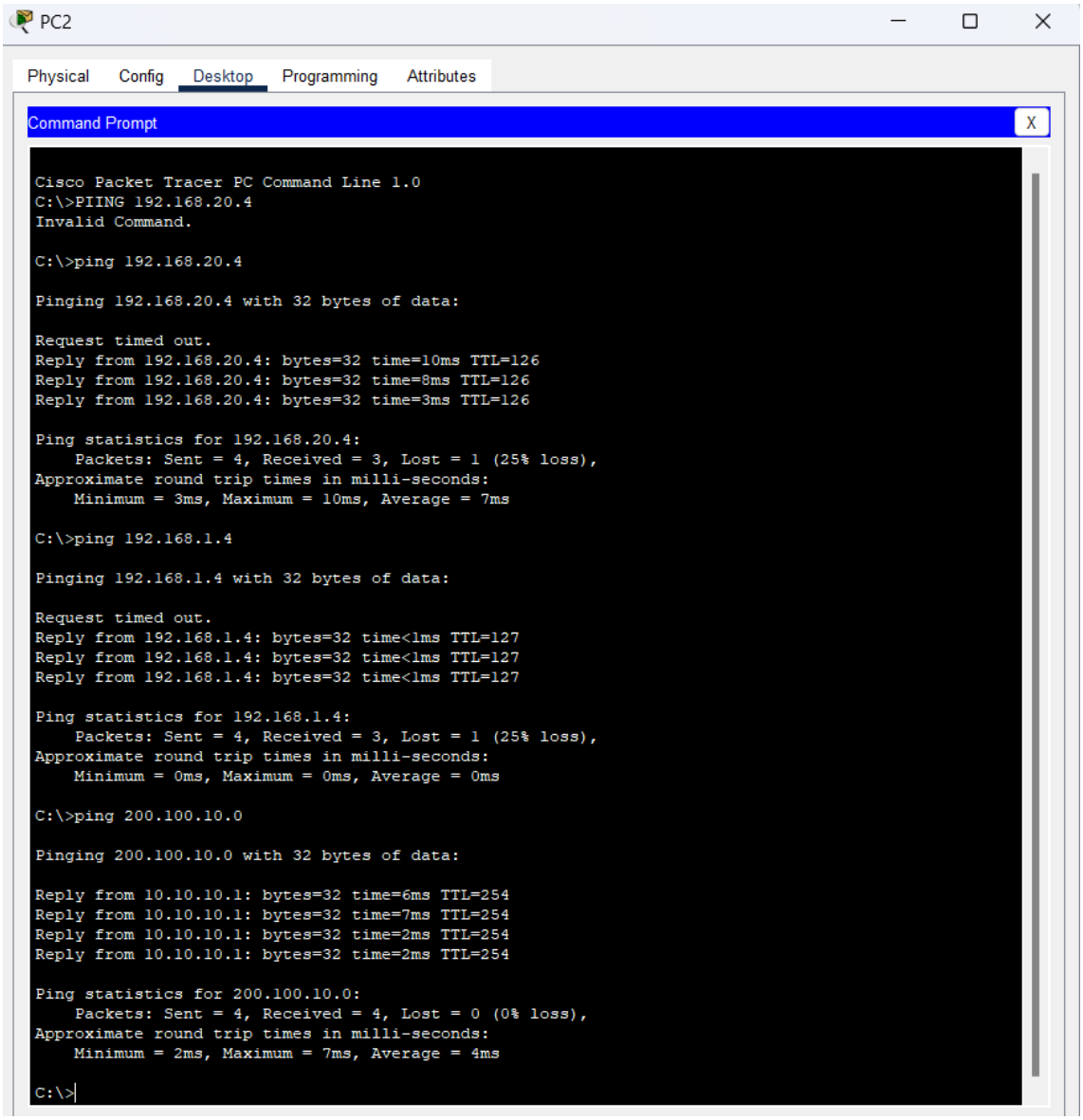
a. R1



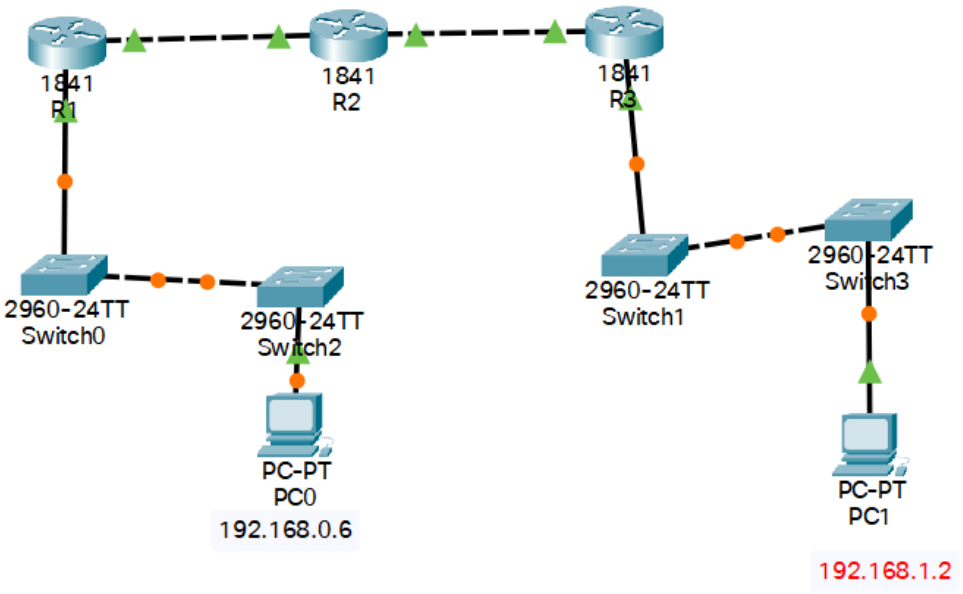
b. R2



Konektivitas PC



3. Diketahui jaringan dengan topologi (file:Soal-3.pkt):

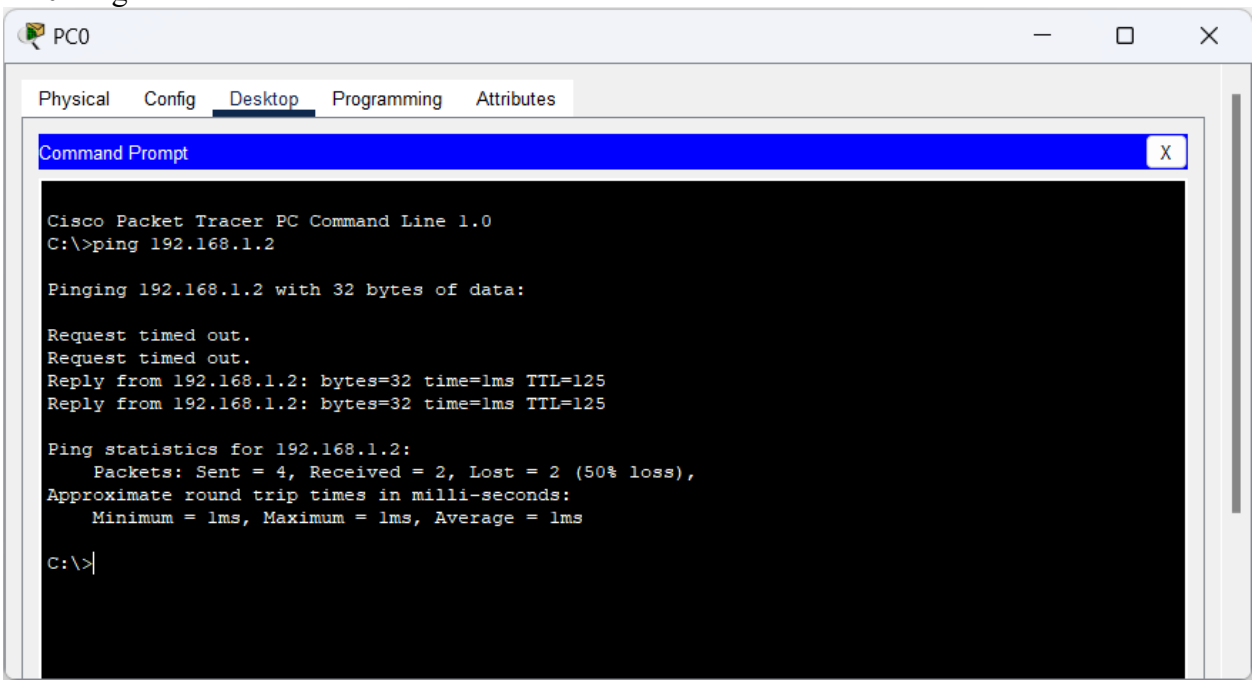


Permasalahan yang harus di selesaikan : PC0 tidak bisa ping ke PC 1 !(20%)

Seluruh dokumen jawaban (file jawaban.pdf dan file packet tracer) disimpan dalam github anda. Isi dokumen berupa konfigurasi per device (file txt) dan bukti konetivitas nya ke seluruh devices. (screenshot)

Jawaban

PC0 Ping PC1



PC1 Ping PC0