

TUGAS BESAR KELOMPOK 9

JARKOMDAT



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TUJUAN PENGERJAAN



TUJUAN

1

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bagaimana membuat
topologi jaringan pada
packet tracer

2

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menghitung subnet
IPv4 dengan
metode vlsm

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konfigurasi simple
topology

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kerja ARP table
pada switch

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Mempelajari
bagaimana cara
kerja routing table
pada router

RESOURCE PAGE

TEORI

CISCO PACKET TRACER ADALAH APLIKASI UNTUK MEMBUAT SIMULASI JARINGAN ATAU UNTUK MEMBUAT SEBUAH TOPOLOGI JARINGAN. PROGRAM INI MERUPAKAN SIMULATOR ALAT-ALAT JARINGAN CISCO YANG SERING DIGUNAKAN SEBAGAI MEDIA PEMBELAJARAN, DAN, PELATIHAN .

VLSM ADALAH PENGEMBANGAN MEKANISME SUBNETING SEHINGGA DI DALAM VLSM DILAKUKAN PENINGATAN DARI KELEMAHAN SUBNETING KLASIK, YANG MANA DALAM SUBNETING KLASIK, SUBNET ZEROES SERTA SUBNET ONES TIDAK BISA DIGUNAKAN.

ARP MEMILIKI KEPANJANGAN ADDRESS RESOLUTION PROTOCOL YANG MERUPAKAN SEBUAH PROTOKOL JARINGAN YANG DIGUNAKAN UNTUK MENGETAHUI ALAMAT HARDWARE. PROTOKOLINI DIGUNAKAN UNTUK MENGETAHUI MAC ADRESS DARI SUATU PERANGKAT.

TUGAS NO 1

Hitunglah subnet address di setiap masing-masing divisi, kemudian tentukan subnet yang dipakai untuk koneksi antar router dan server menggunakan metode VLSM dengan mempertimbangkan jumlah user paling tinggi sebagai prioritas urutan pengalamanan.

Subnet Name	Needed Size	Allocated Size	Address	Mask	Dee Mask	Assignable Range	Broadcast
Divisi A	64	126	192.168.0.0	/25	255.255.255.128	192.168.0.1-192.168.0.126	192.168.0.127
Divisi B	28	30	192.168.0.128	/27	255.255.255.224	192.168.0.129-192.168.0.158	192.168.0.159
Divisi C	16	30	192.168.0.160	/27	255.255.255.224	192.168.0.161-192.168.0.190	192.168.0.191
Divisi D	7	14	192.168.0.192	/28	255.255.255.240	192.168.0.193-192.168.0.206	192.168.0.207
Server dan Router Gedung 3	2	2	192.168.0.216	/30	255.255.255.252	192.168.0.217-192.168.0.218	192.168.0.219
Router dan Router Gedung 1 dan 3	2	2	192.168.0.208	/30	255.255.255.252	192.168.0.209-192.168.0.210	192.168.0.211
Router dan Router Gedung 2 dan 3	2	2	192.168.0.212	/30	255.255.255.252	192.168.0.213-192.168.0.214	192.168.0.215

TUGAS NO 2

Berdasarkan point 1, Isilah Tabel Perhitungan subnet berikut ini

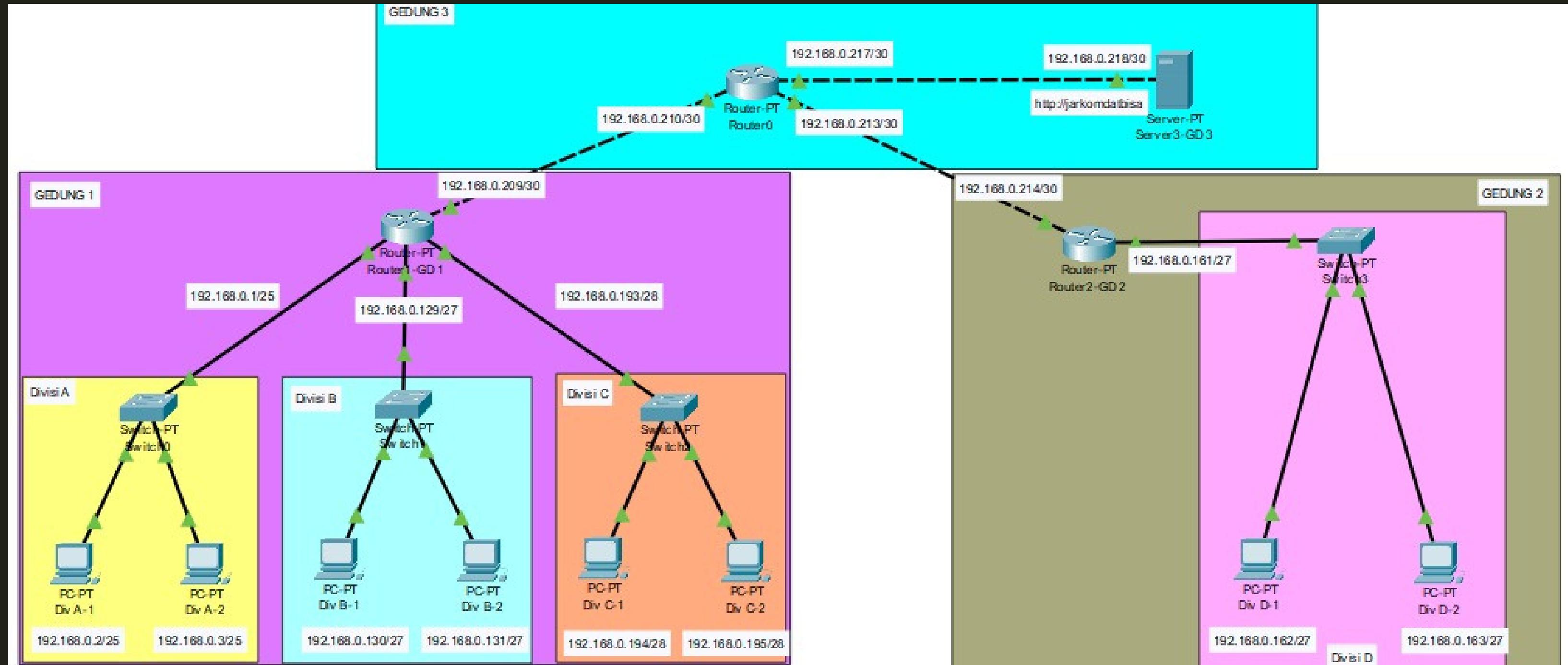
<u>Kategori Perangkat</u>	<u>Subnet</u>	<u>Network Adress</u>	<u>Usable Address Range</u>	<u>Broadcast Adress</u>
PC Divisi A	255.255.255.128 (125)	192.168.0.0	192.168.0.1- 192.168.0.126	192.168.0.127
PC Divisi B	255.255.255.224 (/27)	192.168.0.128	192.168.0.129- 192.168.0.158	192.168.0.159
PC Divisi D	255.255.255.224 (/28)	192.168.0.160	192.168.0.161- 192.168.0.190	192.168.0.191
PC Divisi C	255.255.255.240 (/30)	192.168.0.192	192.168.0.193- 192.168.0.206	192.168.0.207
Server & router gedung 3	255.255.255.252 (/30)	192.168.0.216	192.168.0.217- 192.168.0.218	192.168.0.219
Router Gedung 1 dan 3	255.255.255.252 (/30)	192.168.0.208	192.168.0.209- 192.168.0.210	192.168.0.211
Router Gedung 2 Dan 2	255.255.255.252	192.168.0.212	192.168.0.213- 192.168.0.214	192.168.0.215

TUGAS NO 3

3. MENGGUNAKAN PACKET TRACER, BUATLAH SEBUAH TOPOLOGI JARINGAN PERUSAHAAN TERSEBUT DENGAN DAFTAR PERANGKAT SEBAGAI BERIKUT

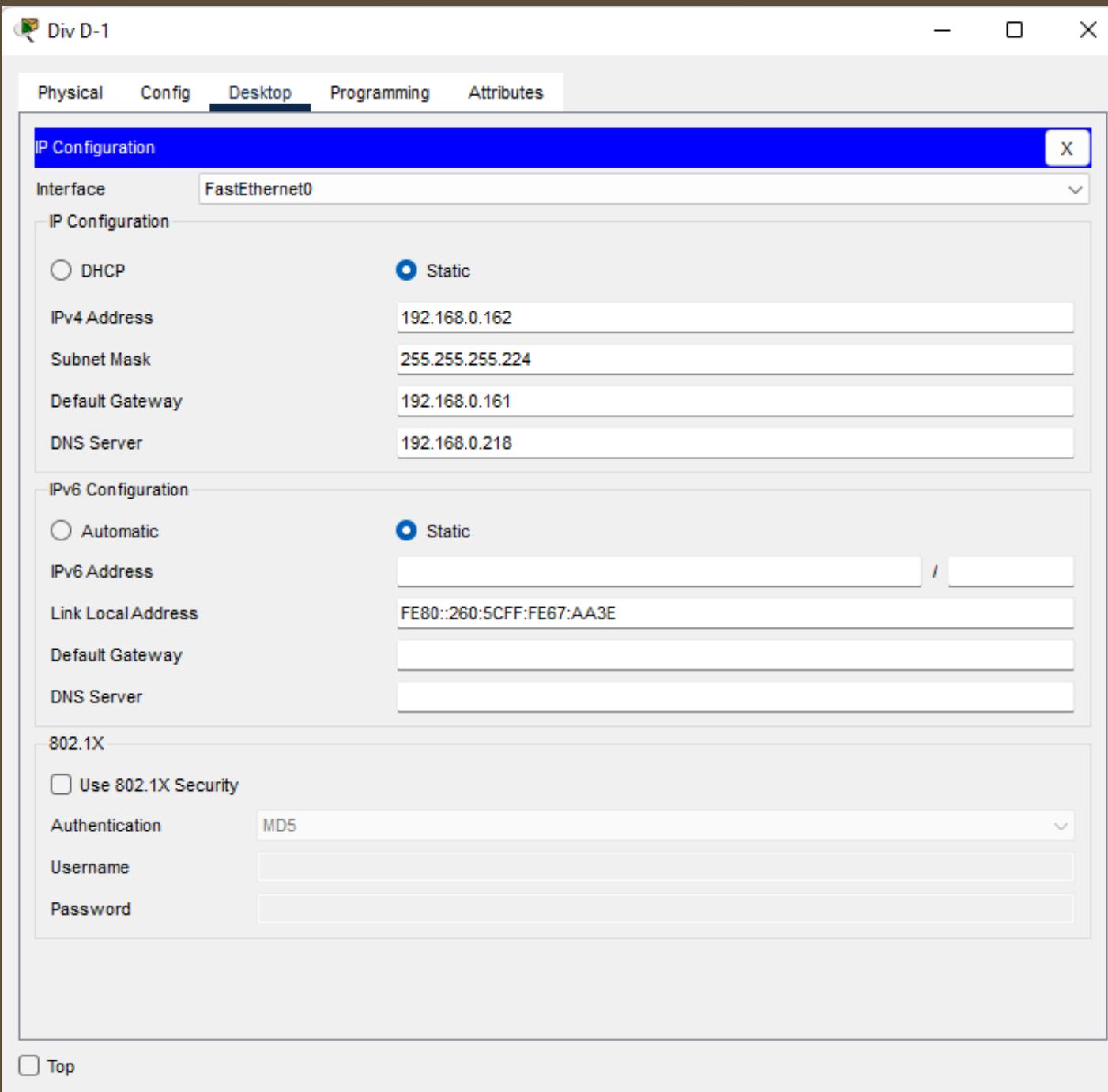
Bagian	Detail Perangkat
Gedung 1	1 Router, 3 Switch (masing-masing switch terhubung ke 2 host PC atau secara total terdapat 6 PC)
Gedung 2	1 Router, 1 Switch (switch terhubung ke 2 host PC atau secara total terdapat 2 PC)
Gedung 3	1 Router, 1 Server

TOPOLOGI JARINGAN



TUGAS NO 4

Konfigurasikan IP Address pada 1 Server, 3 Router, dan 8 PC
sesuai hasil perhitungan subnet masing-masing gedung



MENGHITUNG NETWORK ADDRESS

PC div B = 192.168.0.128 0.0.0.31

Subnet = 255.255.255.224

111111.111111.111111.11100000
2⁵

2⁴ 2³ 2² 2¹ 2⁰

16 8 4 2 1 = 31

TUGAS NO 5 (A)

```
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 192.168.0.131: bytes=32 time<1ms TTL=127
Reply from 192.168.0.131: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.131:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.0.131

Pinging 192.168.0.131 with 32 bytes of data:

Reply from 192.168.0.131: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.131:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.0.130

Pinging 192.168.0.130 with 32 bytes of data:

Reply from 192.168.0.130: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.130:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

Activate Windows
Go to Settings to activate Windows.

PING DIVISI A KE B

```
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 192.168.0.195: bytes=32 time<1ms TTL=127
Reply from 192.168.0.195: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.195:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.0.195

Pinging 192.168.0.195 with 32 bytes of data:

Reply from 192.168.0.195: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.195:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.0.194

Pinging 192.168.0.194 with 32 bytes of data:

Reply from 192.168.0.194: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.194:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

PING DIVISI A KE C

**TAMBAHKAN
KONFIGURASI STATIC
ROUTING PADA SEMUA
ROUTER**

- Ping dari salah satu PC Divisi A, ke PC Divisi B, ke PC Divisi C, ke PC Divisi D, dan ke Server

TUGAS NO 5 (A)

```
Physical Config Desktop Programming Attributes

Command Prompt

Reply from 192.168.0.163: bytes=32 time<1ms TTL=125
Reply from 192.168.0.163: bytes=32 time=5ms TTL=125

Ping statistics for 192.168.0.163:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 5ms, Average = 1ms

C:\>ping 192.168.0.163

Pinging 192.168.0.163 with 32 bytes of data:
Reply from 192.168.0.163: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.163:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.0.162

Pinging 192.168.0.162 with 32 bytes of data:
Reply from 192.168.0.162: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.162:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PING DIVISI A KE D

```
Physical Config Desktop Programming Attributes

Command Prompt

Reply from 192.168.0.162: bytes=32 time<1ms TTL=125
Reply from 192.168.0.162: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.162:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.0.218

Pinging 192.168.0.218 with 32 bytes of data:
Reply from 192.168.0.218: bytes=32 time=1ms TTL=126
Reply from 192.168.0.218: bytes=32 time<1ms TTL=126
Reply from 192.168.0.218: bytes=32 time<1ms TTL=126
Reply from 192.168.0.218: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.0.218:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 192.168.0.218

Pinging 192.168.0.218 with 32 bytes of data:
Reply from 192.168.0.218: bytes=32 time<1ms TTL=126
Reply from 192.168.0.218: bytes=32 time=2ms TTL=126
Reply from 192.168.0.218: bytes=32 time=15ms TTL=126
Reply from 192.168.0.218: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.0.218:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 15ms, Average = 4ms

C:\>
```

PING DIVISI A KE SERVER

TAMBAHKAN KONFIGURASI STATIC ROUTING PADA SEMUA ROUTER

- Ping dari salah satu PC Divisi A, ke PC Divisi B, ke PC Divisi C, ke PC Divisi D, dan ke Server

TUGAS NO 5 (B)

```
C:\>ping 192.168.0.2

Pinging 192.168.0.2 with 32 bytes of data:

Reply from 192.168.0.2: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.0.3

Pinging 192.168.0.3 with 32 bytes of data:

Reply from 192.168.0.3: bytes=32 time<1ms TTL=127
Reply from 192.168.0.3: bytes=32 time=12ms TTL=127
Reply from 192.168.0.3: bytes=32 time<1ms TTL=127
Reply from 192.168.0.3: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 3ms

C:\>
```

PING DIVISI B KE A

```
C:\>ping 192.168.0.194

Pinging 192.168.0.194 with 32 bytes of data:

Reply from 192.168.0.194: bytes=32 time<1ms TTL=127
Reply from 192.168.0.194: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.194:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.0.195

Pinging 192.168.0.195 with 32 bytes of data:

Reply from 192.168.0.195: bytes=32 time<1ms TTL=127
Reply from 192.168.0.195: bytes=32 time=1ms TTL=127
Reply from 192.168.0.195: bytes=32 time<1ms TTL=127
Reply from 192.168.0.195: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.195:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

PING DIVISI B KE C

```
C:\>ping 192.168.0.162

Pinging 192.168.0.162 with 32 bytes of data:

Reply from 192.168.0.162: bytes=32 time<1ms TTL=125
Reply from 192.168.0.162: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.162:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 2ms

C:\>ping 192.168.0.163

Pinging 192.168.0.163 with 32 bytes of data:

Reply from 192.168.0.163: bytes=32 time=14ms TTL=125
Reply from 192.168.0.163: bytes=32 time<1ms TTL=125
Reply from 192.168.0.163: bytes=32 time=5ms TTL=125
Reply from 192.168.0.163: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.163:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 14ms, Average = 4ms

C:\>
```

Ping dari salah satu PC Divisi B,
ke PC Divisi A, ke PC Divisi C, ke
PC Divisi D, dan ke Server

```
C:\>ping 192.168.0.162

Pinging 192.168.0.162 with 32 bytes of data:

Reply from 192.168.0.162: bytes=32 time<1ms TTL=125
Reply from 192.168.0.162: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.162:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 2ms

C:\>ping 192.168.0.163

Pinging 192.168.0.163 with 32 bytes of data:

Reply from 192.168.0.163: bytes=32 time=14ms TTL=125
Reply from 192.168.0.163: bytes=32 time<1ms TTL=125
Reply from 192.168.0.163: bytes=32 time=5ms TTL=125
Reply from 192.168.0.163: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.163:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 14ms, Average = 4ms

C:\>
```

PING DIVISI B KE D

PING DIVISI B KE SERVER

TUGAS NO 5 (C)

```
Cisco Packet Tracer PC Command Line 1.0
C:>ping 192.168.0.2

Pinging 192.168.0.2 with 32 bytes of data:

Reply from 192.168.0.2: bytes=32 time=7ms TTL=127
Reply from 192.168.0.2: bytes=32 time=7ms TTL=127
Reply from 192.168.0.2: bytes=32 time<1ms TTL=127
Reply from 192.168.0.2: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 7ms, Average = 3ms

C:>ping 192.168.0.3

Pinging 192.168.0.3 with 32 bytes of data:

Reply from 192.168.0.3: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:>
```

PING DIVISI C KE A

```
Div C-1
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 192.168.0.130: bytes=32 time<1ms TTL=127
Reply from 192.168.0.130: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.130:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:>ping 192.168.0.130

Pinging 192.168.0.130 with 32 bytes of data:

Reply from 192.168.0.130: bytes=32 time<1ms TTL=127
Reply from 192.168.0.130: bytes=32 time=8ms TTL=127
Reply from 192.168.0.130: bytes=32 time<1ms TTL=127
Reply from 192.168.0.130: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.130:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 8ms, Average = 2ms

C:>ping 192.168.0.131

Pinging 192.168.0.131 with 32 bytes of data:

Reply from 192.168.0.131: bytes=32 time<1ms TTL=127
Reply from 192.168.0.131: bytes=32 time<1ms TTL=127
Reply from 192.168.0.131: bytes=32 time=1ms TTL=127
Reply from 192.168.0.131: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.0.131:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:>
```

PING DIVISI C KE B

Ping dari salah satu PC Divisi C,
ke PC Divisi A, ke PC Divisi B, ke
PC Divisi D, dan ke Server

```
Div C-1
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 192.168.0.162: bytes=32 time<1ms TTL=125
Reply from 192.168.0.162: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.162:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:>ping 192.168.0.162

Pinging 192.168.0.162 with 32 bytes of data:

Reply from 192.168.0.162: bytes=32 time<1ms TTL=125
Reply from 192.168.0.162: bytes=32 time<1ms TTL=125
Reply from 192.168.0.162: bytes=32 time=3ms TTL=125
Reply from 192.168.0.162: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.162:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 3ms, Average = 0ms

C:>ping 192.168.0.163

Pinging 192.168.0.163 with 32 bytes of data:

Reply from 192.168.0.163: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.163:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:>
```

PING DIVISI C KE D

```
Div C-1
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:>ping 192.168.0.218

Pinging 192.168.0.218 with 32 bytes of data:

Reply from 192.168.0.218: bytes=32 time=13ms TTL=126
Reply from 192.168.0.218: bytes=32 time<1ms TTL=126
Reply from 192.168.0.218: bytes=32 time<1ms TTL=126
Reply from 192.168.0.218: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.0.218:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 13ms, Average = 3ms

C:>
```

PING DIVISI C KE SERVER

TUGAS NO 5 (D)

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.2

Pinging 192.168.0.2 with 32 bytes of data:
Reply from 192.168.0.2: bytes=32 time<1ms TTL=125
Reply from 192.168.0.2: bytes=32 time=54ms TTL=125
Reply from 192.168.0.2: bytes=32 time<1ms TTL=125
Reply from 192.168.0.2: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 54ms, Average = 0ms

C:\>ping 192.168.0.130

Pinging 192.168.0.130 with 32 bytes of data:
Reply from 192.168.0.130: bytes=32 time<1ms TTL=125
Reply from 192.168.0.130: bytes=32 time<1ms TTL=125
Reply from 192.168.0.130: bytes=32 time=53ms TTL=125
Reply from 192.168.0.130: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.130:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 53ms, Average = 13ms

C:\>ping 192.168.0.3

Pinging 192.168.0.3 with 32 bytes of data:
Reply from 192.168.0.3: bytes=32 time=1ms TTL=125
Reply from 192.168.0.3: bytes=32 time<1ms TTL=125
Reply from 192.168.0.3: bytes=32 time<1ms TTL=125
Reply from 192.168.0.3: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

PING DIVISI D KE A

```
Reply from 192.168.0.130: bytes=32 time<1ms TTL=125
Reply from 192.168.0.130: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.130:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 192.168.0.130

Pinging 192.168.0.130 with 32 bytes of data:
Reply from 192.168.0.130: bytes=32 time<1ms TTL=125
Reply from 192.168.0.130: bytes=32 time<1ms TTL=125
Reply from 192.168.0.130: bytes=32 time=53ms TTL=125
Reply from 192.168.0.130: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.130:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 53ms, Average = 13ms

C:\>ping 192.168.0.131

Pinging 192.168.0.131 with 32 bytes of data:
Reply from 192.168.0.131: bytes=32 time<1ms TTL=125
Reply from 192.168.0.131: bytes=32 time<1ms TTL=125
Reply from 192.168.0.131: bytes=32 time<1ms TTL=125
Reply from 192.168.0.131: bytes=32 time=10ms TTL=125

Ping statistics for 192.168.0.131:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 2ms

C:\>
```

PING DIVISI D KE B

```
Reply from 192.168.0.194: bytes=32 time<1ms TTL=125
Reply from 192.168.0.194: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.194:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.0.195

Pinging 192.168.0.195 with 32 bytes of data:
Reply from 192.168.0.195: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.195:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.0.196

Pinging 192.168.0.196 with 32 bytes of data:
Reply from 192.168.0.196: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.196:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PING DIVISI D KE C

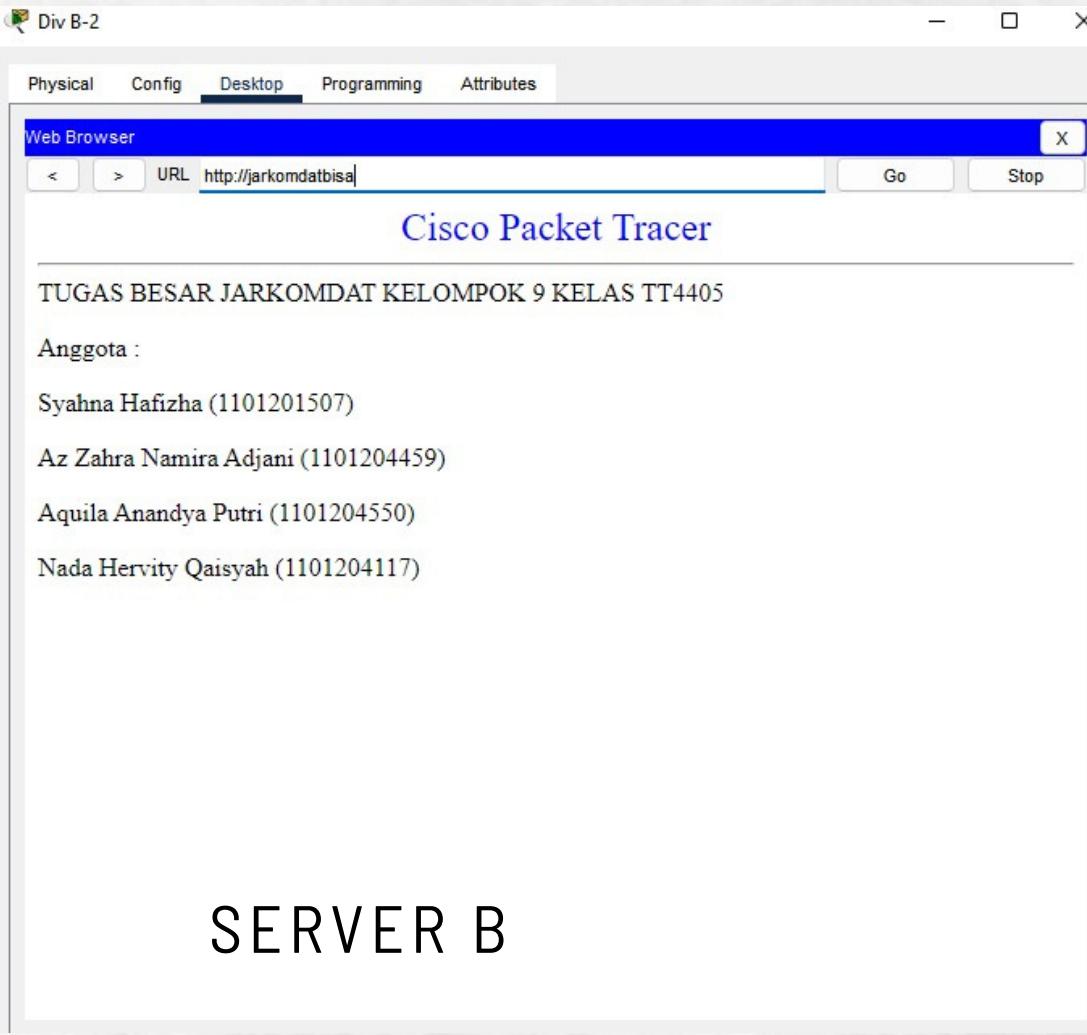
PING DIVISI D KE SERVER

Ping dari salah satu PC Divisi D,
ke PC Divisi A, ke PC Divisi B, ke
PC Divisi C, dan ke Server

TUGAS NO 5 (AKSES SERVER)



SERVER A

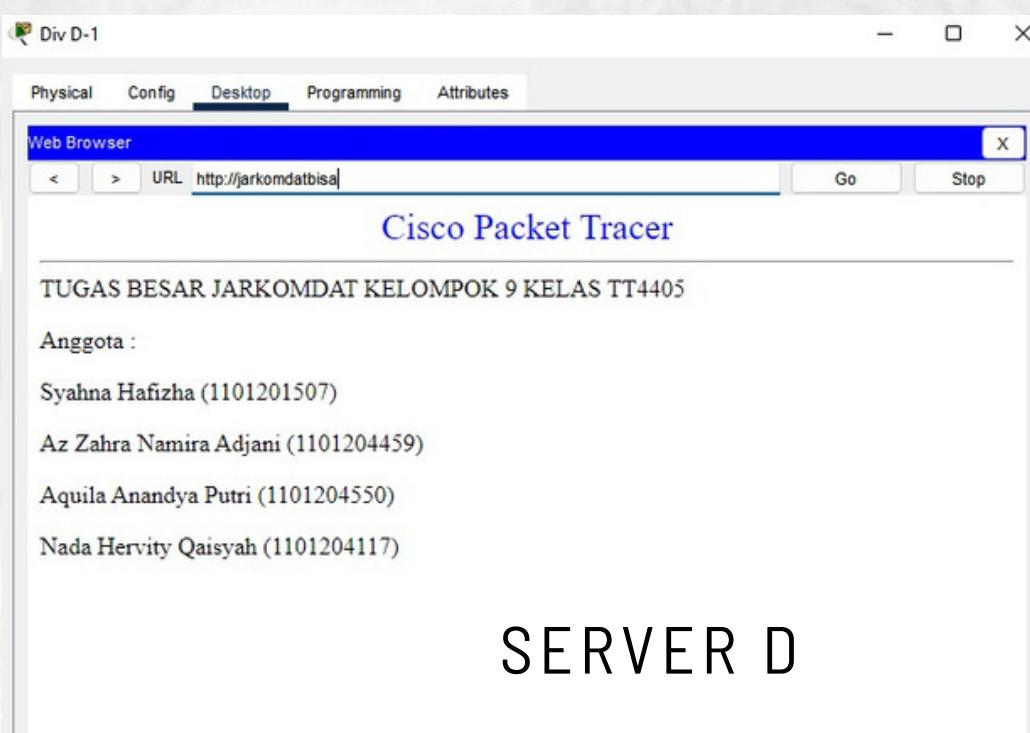


SERVER B

Akses Server Domain via web browser dari salah satu PC divisi A, PC divisi B, PC divisi C, dan PC divisi D



SERVER C



SERVER D

TUGAS NO 6 (ROUTING TABEL ROUTER GEDUNG 1)

ROUTING TABEL ROUTER GEDUNG 1

```
Device Name: Router1-GD 1
Device Model: Router-PT
Hostname: Router

Port          Link    IP Address        IPv6 Address      MAC Address
FastEthernet0/0 Up     192.168.0.1/25  <not set>       00E0.F7E3.A53E
FastEthernet1/0 Up     192.168.0.129/27 <not set>      0010.11E6.CD40
Serial2/0      Down   <not set>       <not set>      <not set>
Serial3/0      Down   <not set>       <not set>      <not set>
FastEthernet4/0 Down   <not set>       <not set>      00E0.A3E0.2B46
FastEthernet5/0 Down   <not set>       <not set>      000C.CF14.C8A5
FastEthernet6/0 Up     192.168.0.193/28 <not set>      00D0.BAA2.632D
FastEthernet7/0 Up     192.168.0.209/30 <not set>      0050.0FC5.30BA

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Router1-GD 1
```

TUGAS NO 7 (ROUTING TABEL ROUTER GEDUNG 2)

ROUTING TABEL ROUTER GEDUNG 2

```
Device Name: Router2-GD 2
Device Model: Router-PT
Hostname: Router

Port          Link    IP Address      IPv6 Address           MAC Address
FastEthernet0/0 Up     192.168.0.161/27 <not set>          000A.F345.563D
FastEthernet1/0 Up     192.168.0.214/30 <not set>          000A.41A1.6AEC
Serial2/0      Down   <not set>        <not set>          <not set>
Serial3/0      Down   <not set>        <not set>          <not set>
FastEthernet4/0 Down   <not set>        <not set>          000B.BE14.55E5
FastEthernet5/0 Down   <not set>        <not set>          0000.9771.A6B9
FastEthernet6/0 Down   <not set>        <not set>          0006.2A1C.845A
FastEthernet7/0 Down   <not set>        <not set>          00E0.F9D5.0D5B

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Router2-GD 2
```

TUGAS NO 8 (ROUTING TABEL ROUTER GEDUNG 3)

ROUTING TABEL ROUTER GEDUNG 3

Device Name:	Router0			
Device Model:	Router-PT			
Hostname:	Router			
Port	Link	IP Address	IPv6 Address	MAC Address
FastEthernet0/0	Up	192.168.0.210/30	<not set>	00D0.BA78.CDC2
FastEthernet1/0	Up	192.168.0.213/30	<not set>	0001.96C6.CA3C
Serial2/0	Down	<not set>	<not set>	<not set>
Serial3/0	Down	<not set>	<not set>	<not set>
FastEthernet4/0	Down	<not set>	<not set>	00D0.FF65.518E
FastEthernet5/0	Down	<not set>	<not set>	0007.ECAD.476A
FastEthernet6/0	Up	192.168.0.217/30	<not set>	0002.4A46.B8A9
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Router0				

TUGAS 9 (ARP TABLE 3 BUAH ROUTER GEDUNG 1 (DILAKUKAN SETELAH SEMUA ACTIVITY PING DILAKUKAN))

```
Router>en
Router#sh arp
Protocol Address          Age (min)  Hardware Addr  Type  Interface
Internet 192.168.0.1           -  00E0.F7E3.A53E  ARPA  FastEthernet0/0
Internet 192.168.0.129         -  0010.11E6.CD40  ARPA  FastEthernet1/0
Internet 192.168.0.193         -  00D0.BAA2.632D  ARPA  FastEthernet6/0
Internet 192.168.0.209         -  0050.0FC5.30BA  ARPA  FastEthernet7/0
Internet 192.168.0.210         2   00D0.BA78.CDC2  ARPA  FastEthernet7/0
Router#
```

Ctrl+F6 to exit CLI focus

Copy

Paste

ARP ROUTER 1

```
Router>en
Router#sh arp
Protocol Address          Age (min)  Hardware Addr  Type  Interface
Internet 192.168.0.209         1  0050.0FC5.30BA  ARPA  FastEthernet0/0
Internet 192.168.0.210         -  00D0.BA78.CDC2  ARPA  FastEthernet0/0
Internet 192.168.0.213         -  0001.96C6.CA3C  ARPA  FastEthernet1/0
Internet 192.168.0.214         1  000A.41A1.6AEC  ARPA  FastEthernet1/0
Internet 192.168.0.217         -  0002.4A46.B8A9  ARPA  FastEthernet6/0
Router#
```

Ctrl+F6 to exit CLI focus

Copy

Paste

ARP ROUTER 3

```
Router>en
Router#sh arp
Protocol Address          Age (min)  Hardware Addr  Type  Interface
Internet 192.168.0.161        -  000A.F345.563D  ARPA  FastEthernet0/0
Internet 192.168.0.213         3   0001.96C6.CA3C  ARPA  FastEthernet1/0
Internet 192.168.0.214         -  000A.41A1.6AEC  ARPA  FastEthernet1/0
Router#
```

Ctrl+F6 to exit CLI focus

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ARP ROUTER 2

TUGAS 10 (MAC ADDRESS PADA SWITCH)

```
Switch>en
Switch#show mac-address-table
      Mac Address Table
-----
Vlan      Mac Address          Type      Ports
----  -----
1        0010.11e6.cd40    DYNAMIC   Fa2/1
Switch#

```

Ctrl+F6 to exit CLI focus

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