

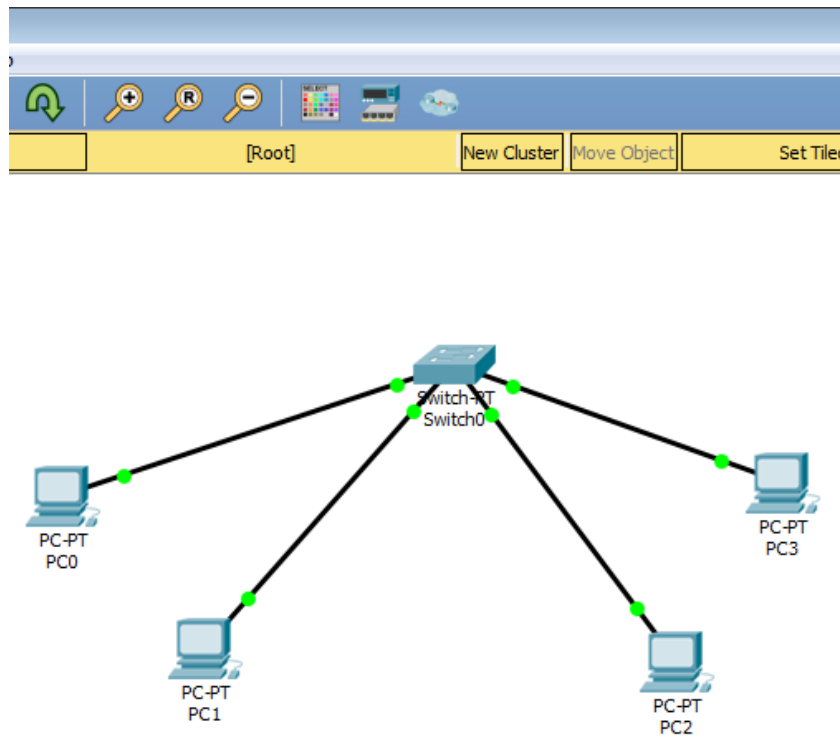
# LAPORAN PRAKTIKUM JARINGAN KOMPUTER

## MODUL 3

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**KELAS : A**



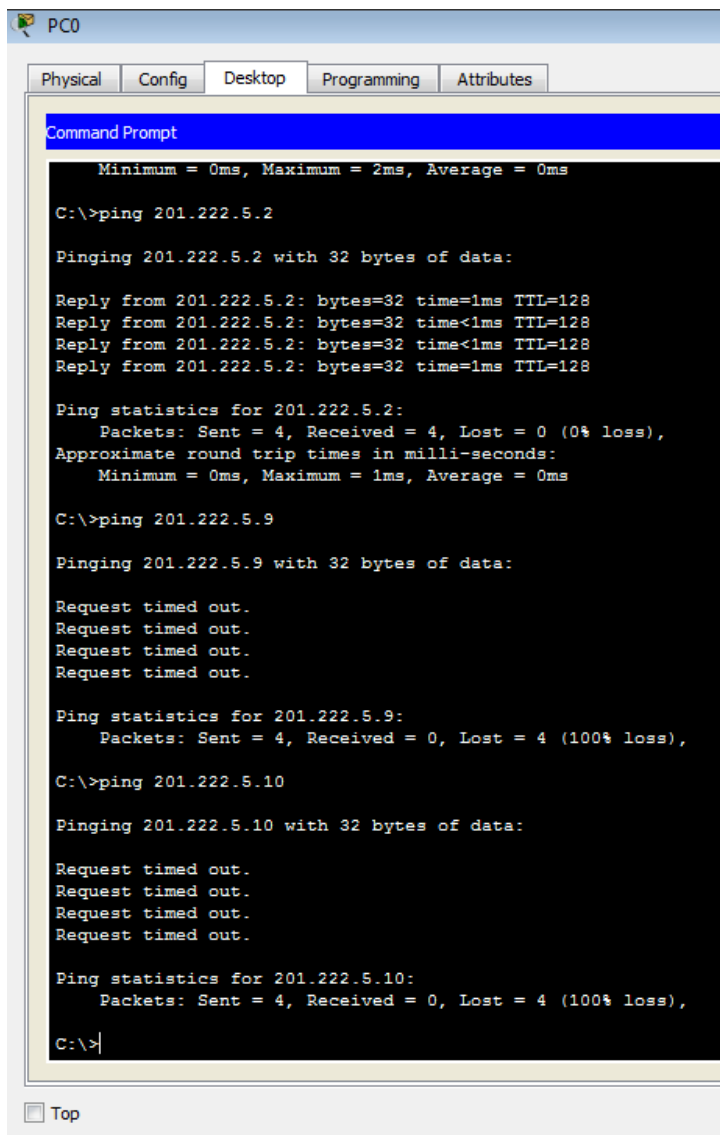
**IP address :**

**PC0 = 201.222.5.1**

**PC1 = 201.222.5.2**

**PC2 = 201.222.5.9**

**PC3 = 201.222.5.10**

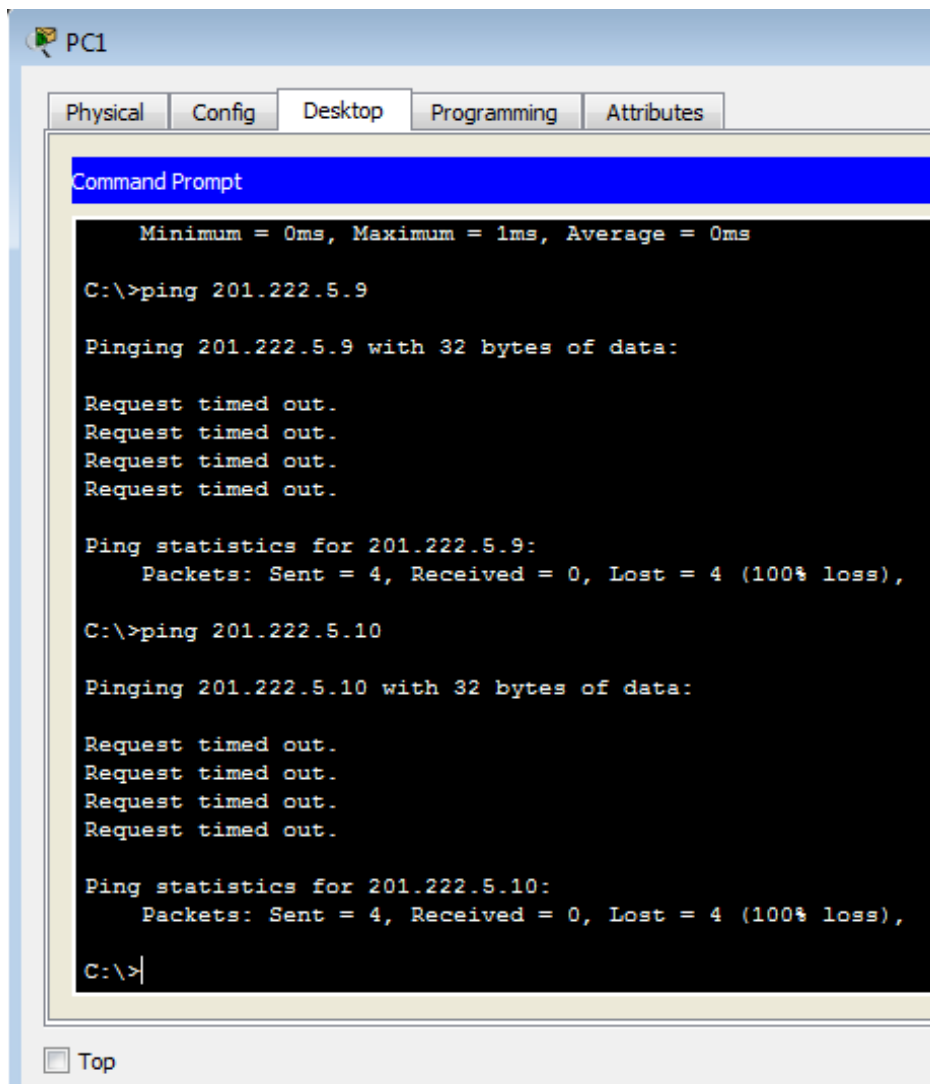


```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
Minimum = 0ms, Maximum = 2ms, Average = 0ms
C:\>ping 201.222.5.2
Pinging 201.222.5.2 with 32 bytes of data:
Reply from 201.222.5.2: bytes=32 time=1ms TTL=128
Reply from 201.222.5.2: bytes=32 time<1ms TTL=128
Reply from 201.222.5.2: bytes=32 time<1ms TTL=128
Reply from 201.222.5.2: bytes=32 time=1ms TTL=128
Ping statistics for 201.222.5.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 201.222.5.9
Pinging 201.222.5.9 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 201.222.5.9:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 201.222.5.10
Pinging 201.222.5.10 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 201.222.5.10:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

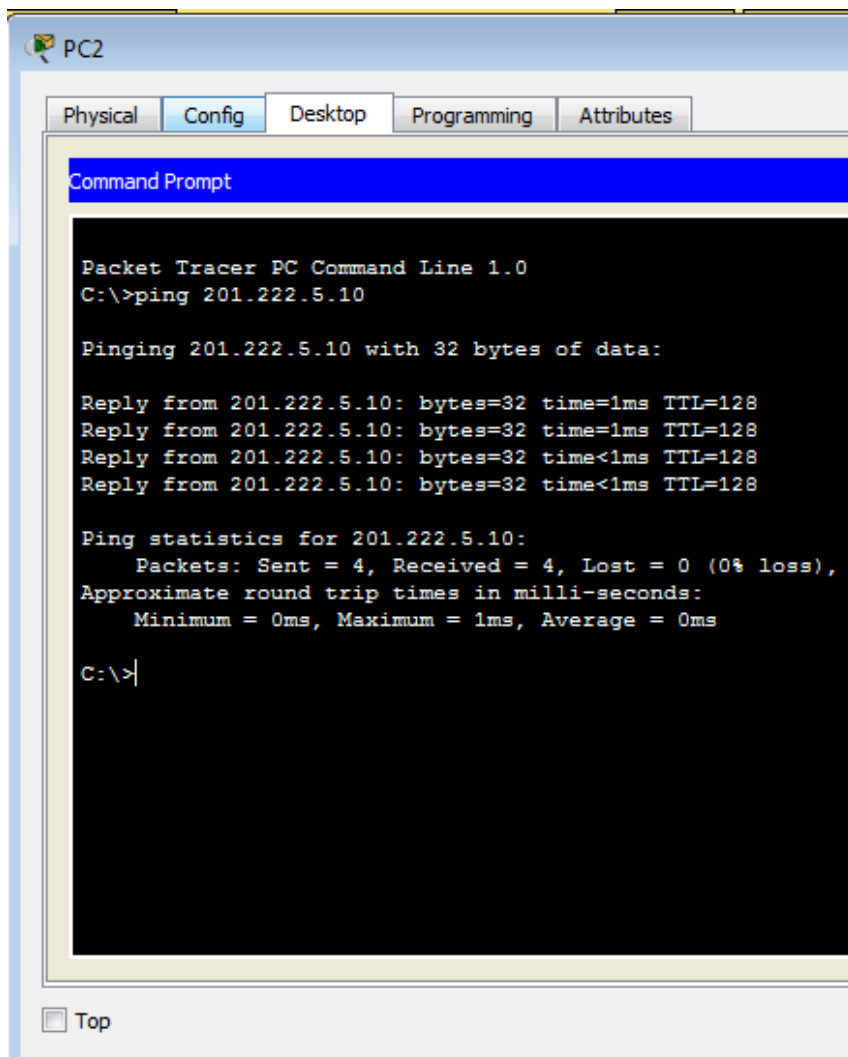
Untuk mengetahui apakah setiap pc tersambung dengan mengeceknya menggunakan ping seperti diatas.

Pada gambar di atas pc0 dengan pc1 muncul pesan replay yang artinya computer tujuan memberi respon terhadap pesan yang dikirim, sehingga kedua PC saling terhubung dan dapat diakses.

Pc0 dengan pc2, pc0 dengan pc3 muncul pesan request timed out yang artinya computer server tidak merespon permintaan koneksi dari client. Tidak berada pada subnet address yang sama.

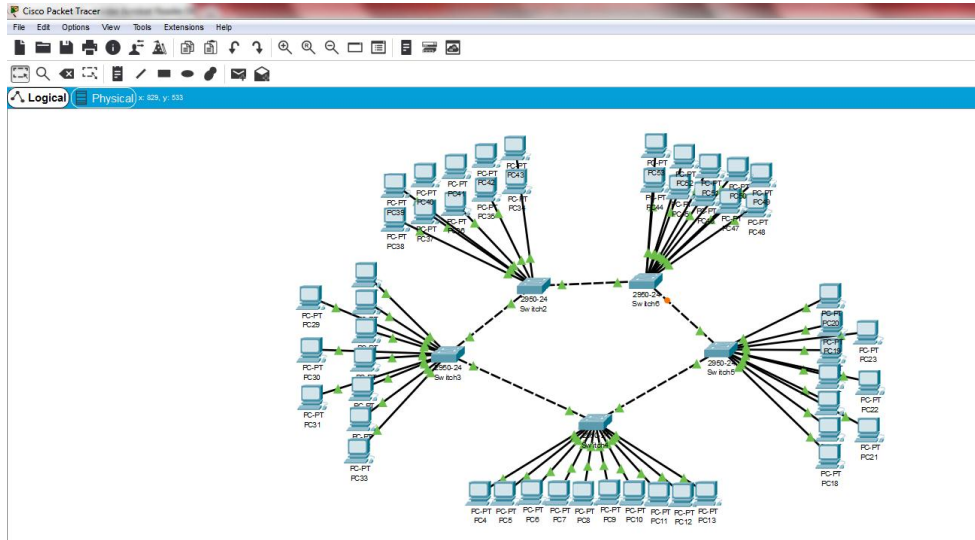


Pc1 dengan pc2, pc1 dengan pc3 muncul pesan request timed out yang artinya computer server tidak merespon permintaan koneksi dari client. Tidak berada pada subnet address yang sama.



Pc2 dengan pc3 muncul pesan replay yang artinya computer tujuan memberi respon terhadap pesan yang dikirim, sehingga kedua PC saling terhubung dan dapat diakses.

## TUGAS



## Menentukan Subnet Mask dan Subnet Address

IP Address : 202.155.19.0/27

subnetmask :

255.255.255.0

**11111111 11111111 11111111 00000000**

**11111111 11111111 11111111 11100000**

Subnet Mask : 255.255.255.224

✓ Jumlah Subnet :  $2^x = 2^3 = 8$

✓ Jumlah Host / Subnet :  $2^y - 2 = 2^5 - 2 = 32 - 2 = 30$

✓ Block Subnet :  $256 - 224 = 32$

✓ Tabel Subnet

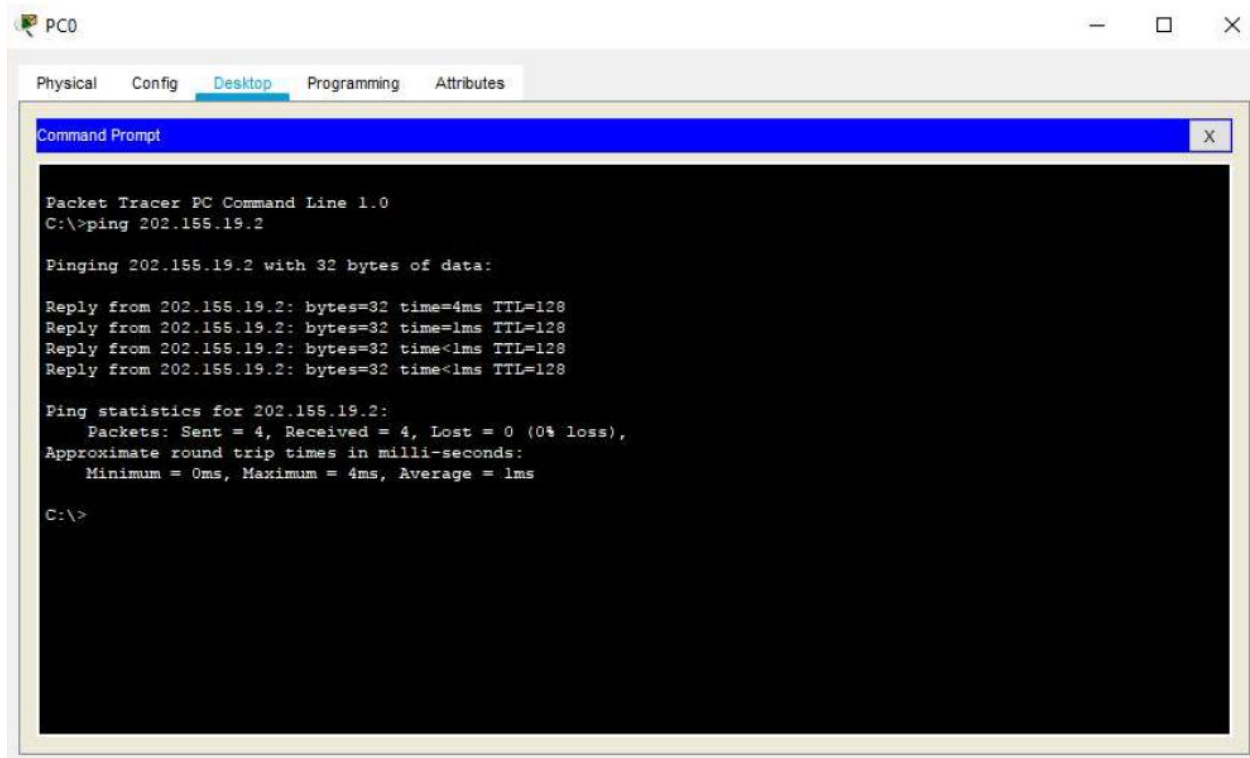
NA	IP Awal	IP Akhir	Broadcast
202.155.19.0	202.155.19.1	202.155.19.30	202.155.19.31
202.155.19.32	202.155.19.33	202.155.19.62	202.155.19.63
202.155.19.64	202.155.19.65	202.155.19.94	202.155.19.95
202.155.19.96	202.155.19.97	202.155.19.126	202.155.19.127
202.155.19.128	202.155.19.129	202.155.19.158	202.155.19.159
202.155.19.160	202.155.19.161	202.155.19.190	202.155.19.191
202.155.19.192	202.155.19.193	202.155.19.222	202.155.19.223
202.155.19.224	202.155.19.225	202.155.19.254	202.155.19.255

PC0 = 202.155.19.1  
PC1 = 202.155.19.2  
PC2 = 202.155.19.33  
PC3 = 202.155.19.34  
PC11 = 202.155.19.65  
PC10 = 202.155.19.66  
PC6 = 202.155.19.97  
PC7 = 202.155.19.98  
PC8 = 202.155.19.129  
PC9 = 202.155.19.130

## Melakukan tes antar komputer

### 1. Tes antar computer di dalam satu switch

Melakukan ping dengan IP Address 202.155.19.1 ke IP Address 202.155.19.2 hasilnya ? berjalan dengan baik.



The screenshot shows a Packet Tracer PC Command Line window for a PC named PC0. The window has tabs for Physical, Config, Desktop, Programming, and Attributes, with Desktop selected. The Command Prompt shows the following output:

```
Packet Tracer PC Command Line 1.0
C:\>ping 202.155.19.2

Pinging 202.155.19.2 with 32 bytes of data:

Reply from 202.155.19.2: bytes=32 time=4ms TTL=128
Reply from 202.155.19.2: bytes=32 time<1ms TTL=128
Reply from 202.155.19.2: bytes=32 time<1ms TTL=128
Reply from 202.155.19.2: bytes=32 time<1ms TTL=128

Ping statistics for 202.155.19.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 4ms, Average = 1ms

C:\>
```

### 2. Tes antar computer yang ada di switch satu dengan computer yang ada di switch lain

- Melakukan ping IP Address 202.155.19.33 ke IP Address 202.155.19.1 hasilnya ? Gagal / Time Out, karena beda subnettinya.

