

# LAPORAN PRAKTIKUM JARINGAN KOMPUTER

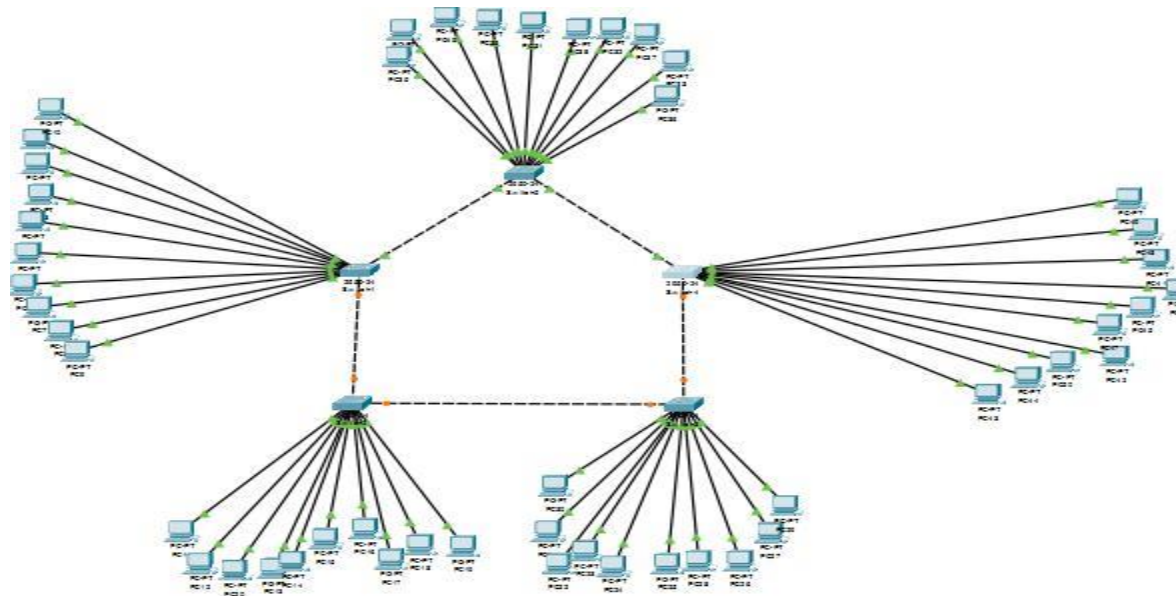
## MODUL 3 : Subnetting

NAMA : MOCH AFIF ABDILLAH

NIM : L200170004

KELAS : A

### □ Tugas Modul 3 : Desain Jaringan ( 5 Division )



## Menentukan Subnet Mask dan Subnet Address

IP Address : 202.155.19.0/27

11111111 11111111 11111111 11100000

Subnet Mask : 255.255.255.224

1. Jumlah Subnet :  $2^x = 2^3 = 8$   
Jumlah Host / :  $2^y - 2 = 2^5 - 2 = 32 - 2$
2. Subnet = 30
3. Block Subnet :  $256 - 224 = 32$
4. Tabel Subnet

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

□ **Keterangan Tabel :**

1. Tabel terdiri dari 8 Subnetting.
2. Hanya ada 7 Subnet yang bisa digunakan.
3. Subnet yang terakhir / yang di block hitam tidak bisa digunakan.
4. Setiap Subnetting tersedia 30 IP Address untuk user.

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

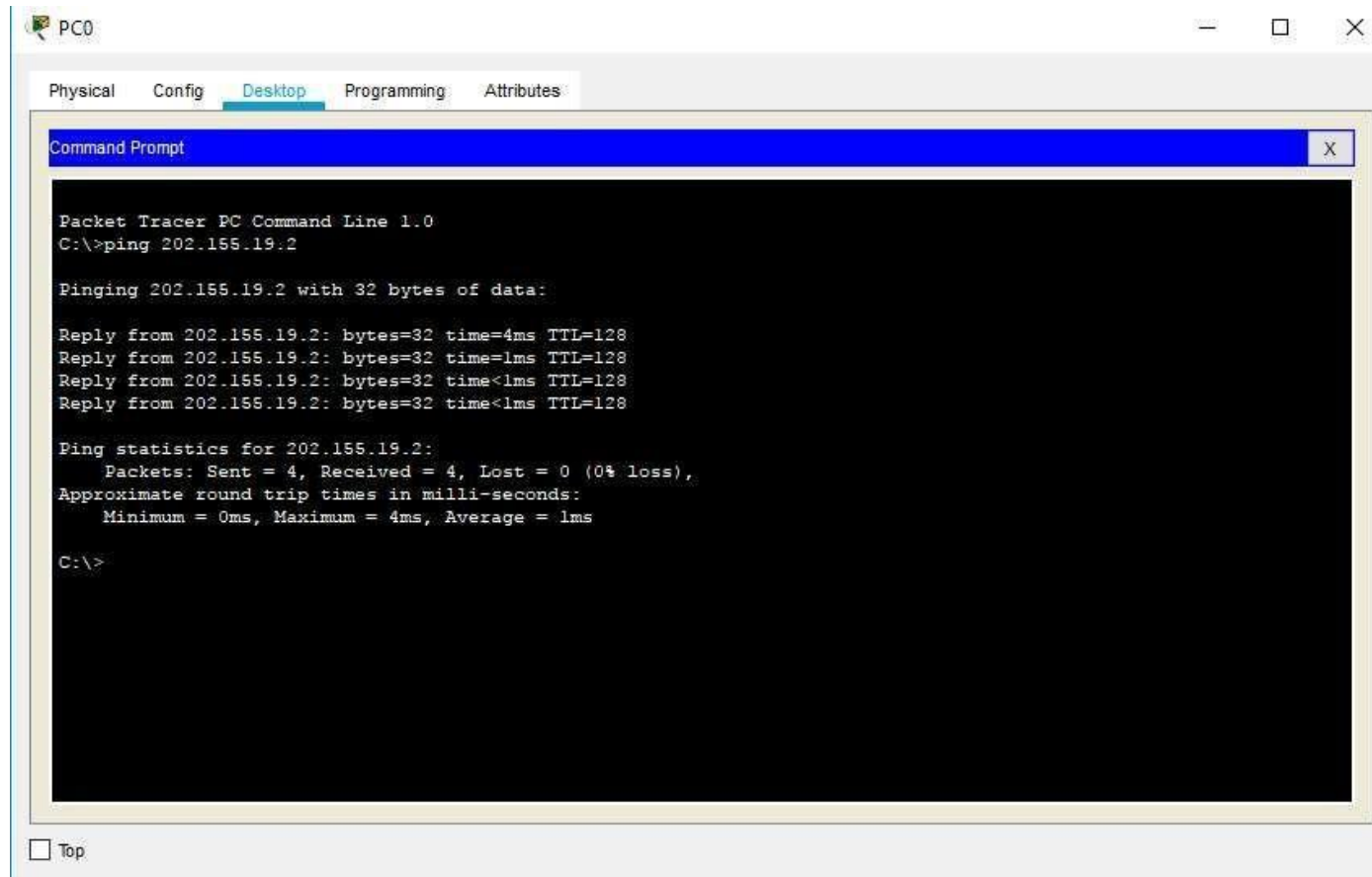
PC8 = 202.155.19.129

PC9 = 202.155.19.130

## ☐ Melakukan tes antar komputer

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

- ☐ Melakukan ping dari PC dengan IP Address 202.155.19.1 ke PC dengan IP Address 202.155.19.2 hasilnya berjalan dengan normal.



The screenshot shows a Packet Tracer PC Command Line window for PC0. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, displaying a Command Prompt window. The Command Prompt shows the execution of the command 'ping 202.155.19.2'. The output indicates that the ping was successful, with four replies received from 202.155.19.2, each with a time of 1ms and a TTL of 128. The ping statistics show that all four packets were sent and received, with 0% loss. The approximate round trip times are: Minimum = 0ms, Maximum = 4ms, Average = 1ms.

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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 dari PC dengan IP Address 202.155.19.33 ke PC dengan IP Address 202.155.19.1 hasilnya timed out, karena beda subnettnya.

