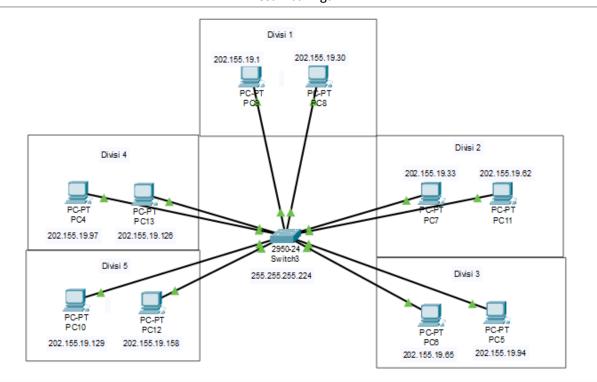
Nama : Ikhwan Fahmi T NIM : L200170174

Kelas : D Modul : 3

### Tugas

- 1. Sebuah supermarket akan memasang sebuah jaringan komputer yang menggunakan network ID 202.155.19.0 dengan subnet mask default 255.255.255.0. Supermarket tersebut memiliki 5 devisi dan masing- masing devisi dapat berisi hingga 25 komputer
- 2. Jawaban dari Tugas

# Desain Jaringan



Subnet Addres yang terbentuk:

202.155.19.0 memiliki subnet mask default 255.255.255.0 berarti

11111111.11111111.1111111.00000000

Perhitungan

Jumlah subnet =  $2^x$ 

X adalah bit yang harus diubah, jika membutuhkan 5 subnet maka minimal harus merubah 3 bit 0 menjadi bit 1 sehingga

Jumlah subnet =  $2^x = 2^3 = 8$ 

Jumlah host per Subnet =  $2^y$ -2

Y adalah jumlah bit 0 yang tersisa, bit yang tersisa 5 maka

Jumlah host per Subnet =  $2^{y}$ -2

**= 2**<sup>5</sup>-2

= 30

Subnet mask menjadi

11111111.111111111.1111111.11100000

Atau

255.255.255.224

## Subnet mask yang digunakan di semua komputer :

255.255.255.224

Block subnet = 256-224

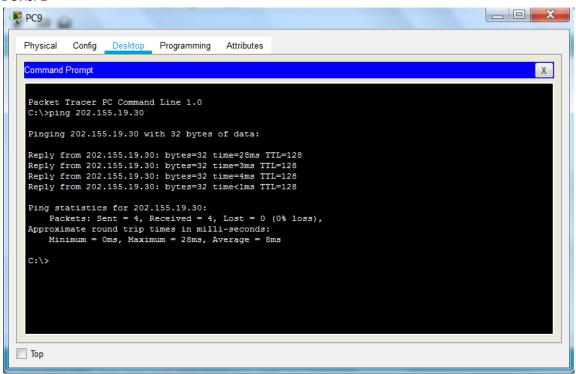
= 32

## Alamat host dan broadcast yang valid:

Subnet	202.155.19.0	202.155.19.32	202.155.19.64	202.155.19.96	202.155.19.128
Host	202.155.19.1	202.155.19.33	202.155.19.65	202.155.19.97	202.155.19.129
pertama					
Host	202.155.19.30	202.155.19.62	202.155.19.94	202.155.19.126	202.155.19.158
terakhir					
Broadcast	202.155.19.31	202.155.19.63	202.155.19.95	202.155.19.127	202.155.19.159

## Tes koneksi

### Devisi 1



#### Devisi 2

```
Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer FC Command Line 1.0
C:\>ping 202.155.19.62
Pinging 202.155.19.62 with 32 bytes of data:
Reply from 202.155.19.62: bytes=32 time=22ms TTL=128
Reply from 202.155.19.62: bytes=32 timedins TTL=128
Ping statistics for 202.155.19.62:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = Oms, Maximum = 22ms, Average = 5ms

C:\>
```

### Devisi 3

```
Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
C:\>ping 202.155.19.94 with 32 bytes of data:

Reply from 202.155.19.94 bytes=32 time=2ms TTL=128
Reply from 202.155.19.94: bytes=32 time<1ms TTL=128
Reply from 202.155.19.94:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = Oms, Maximum = 2ms, Average = Oms

C:\>

Top
```

#### Devisi 4

```
Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
C:\>ping 202.155.19.126

Pinging 202.155.19.126 with 32 bytes of data:

Reply from 202.155.19.126: bytes=32 time=31ms TTL=128
Reply from 202.155.19.126: bytes=32 time
Reply from 202.155.19.126 bytes=32 time
Reply from
```

### Devisi 5

```
Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
C:\>ping 202.155.19.158

Pinging 202.155.19.158 with 32 bytes of data:

Reply from 202.155.19.158: bytes=32 time=16ms TIL=128
Reply from 202.155.19.158: bytes=32 time<1ms TIL=128

Ping statistics for 202.155.19.158:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = 16ms, Average = 4ms

C:\>
```