

MODUL 3

NIM : L200180132

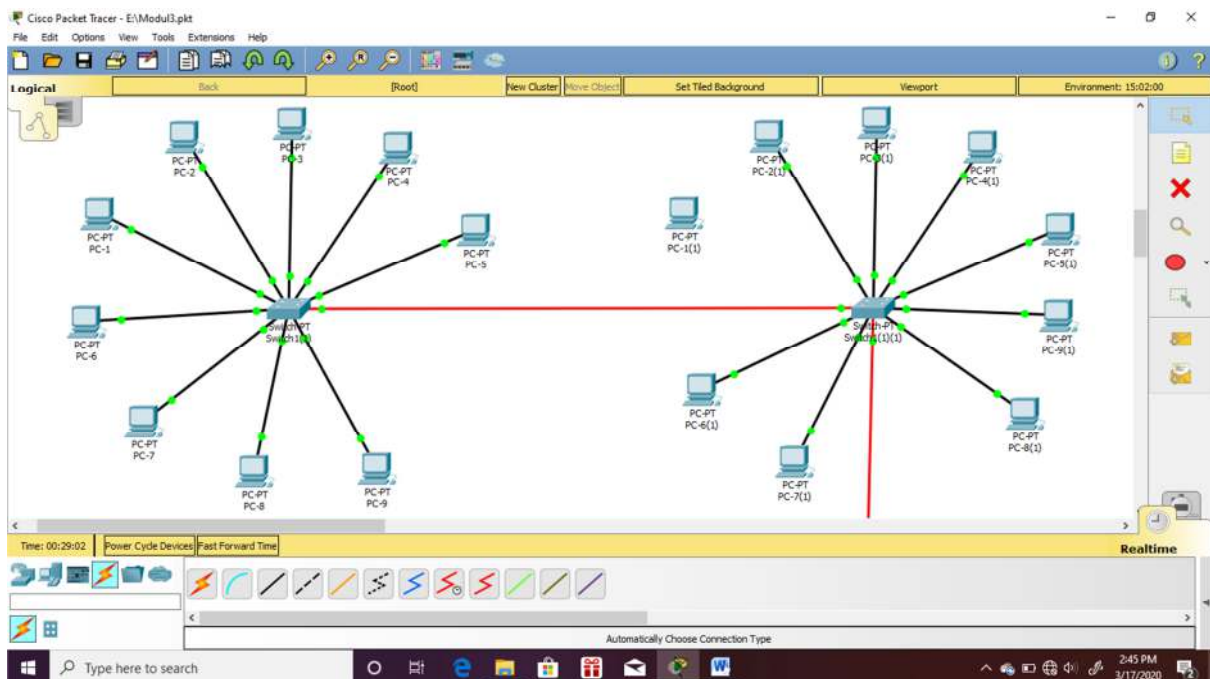
Nama : Rohana Murniati Furshotun

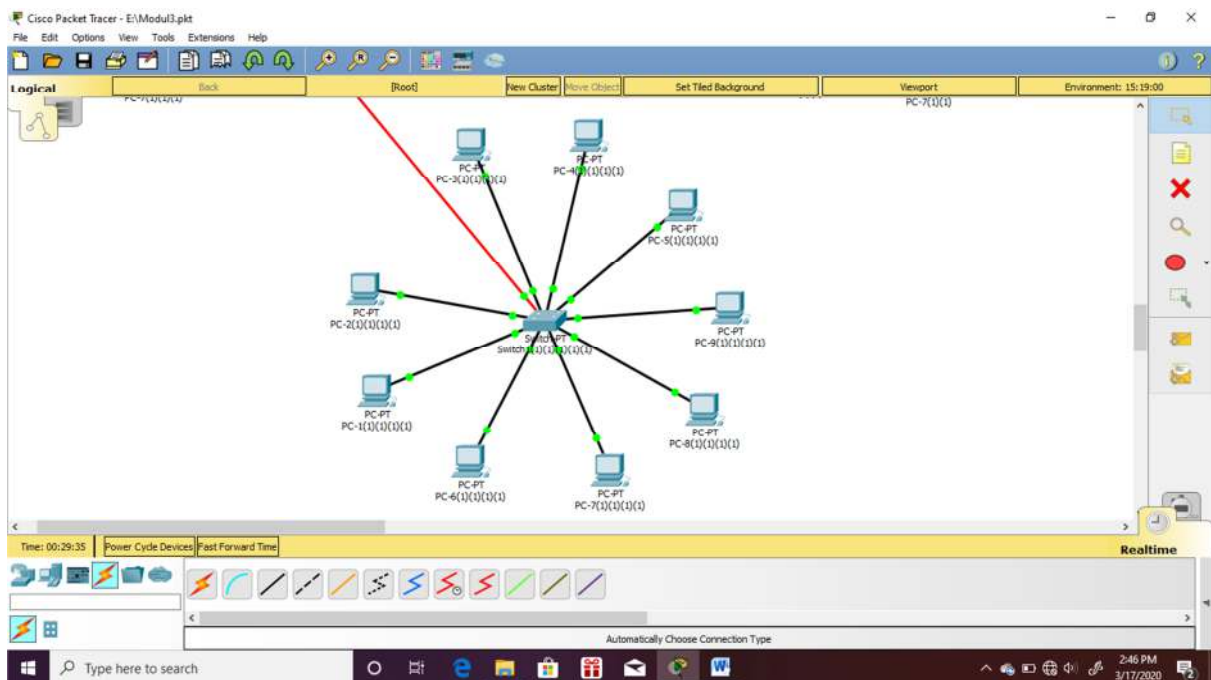
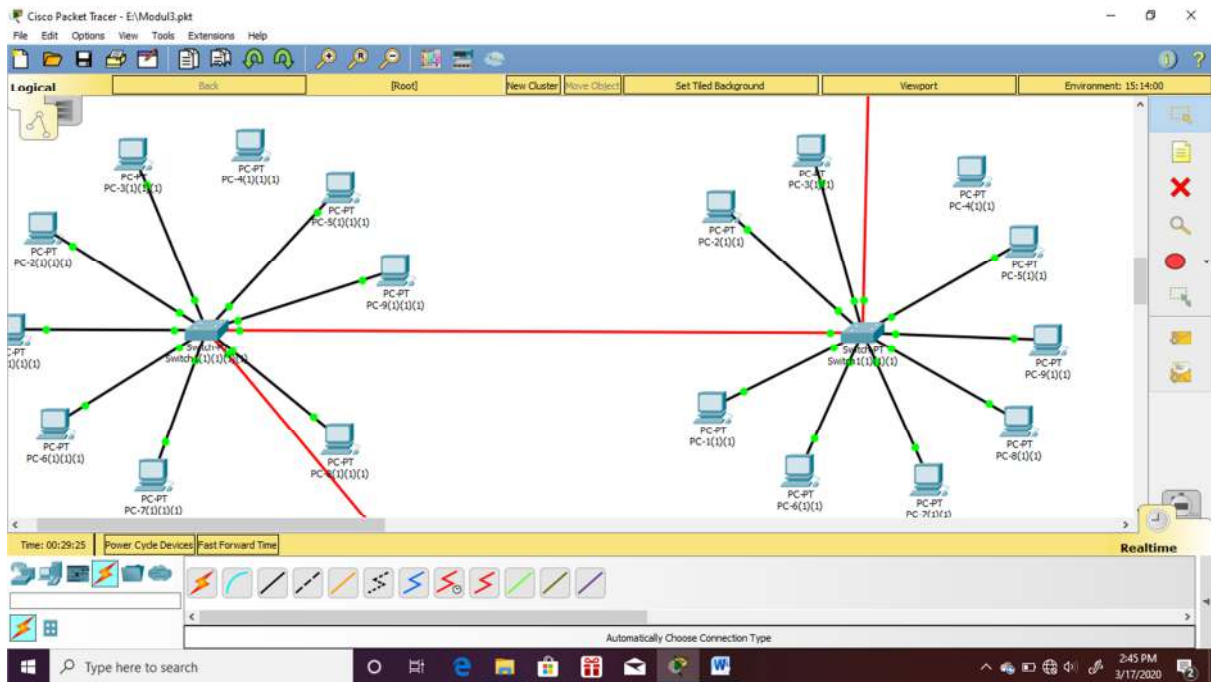
Kelas : D / Praktikum Jaringan Komputer

Asisten : Ayasha, Reza

Tugas

- Desain jaringan computer dengan Packet Tracer yang menggunakan network ID 202.155.19.0 dengan subnet mask default 255.255.255.0
- Gunakan 5 switch seri generic dengan masing-masing berisi 9 unit PC





c. Tentukan subnet mask yang harus digunakan pada semua computer

Agar mencakup 5 divisi / subnet maka

$X = 3$, dimana jumlah subnet = $2^X - 2$

$X = 3$, blok terakhir pada subnet mask adalah 11100000

Subnet default	255	255	255	0
biner	11111111	11111111	11111111	00000000

biner	11111111	11111111	11111111	11100000
Subnet komputer	255	255	255	224

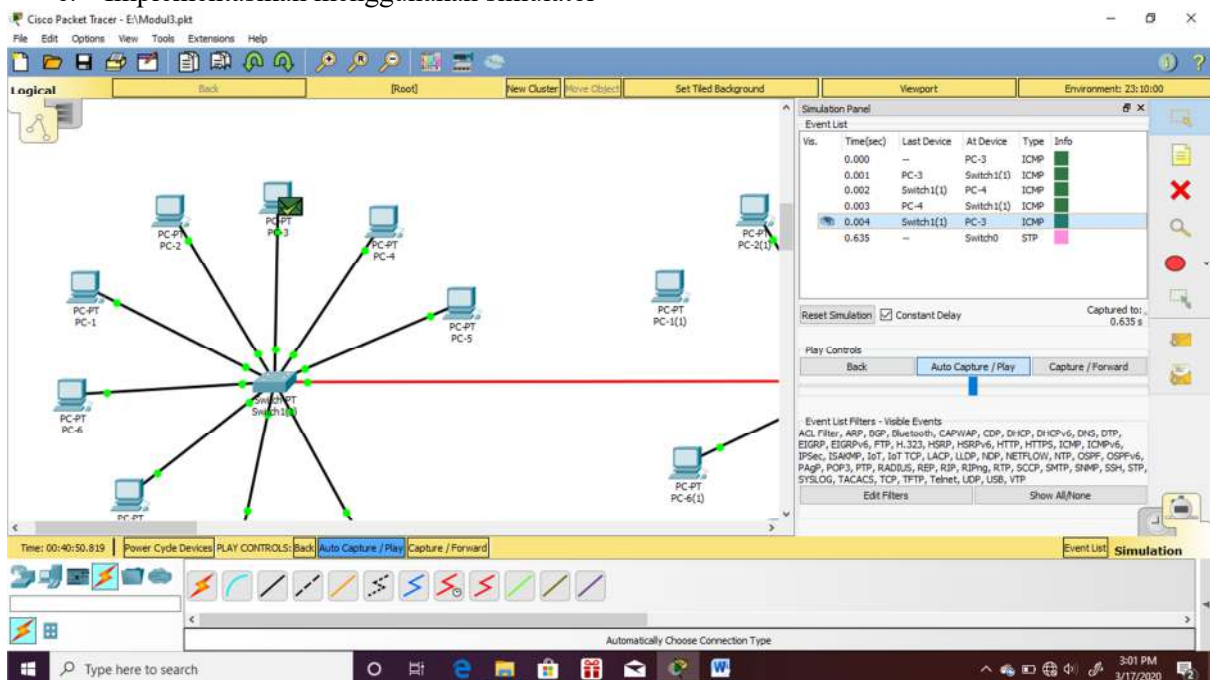
Subnet mask seluruh komputer : 255.255.255.224

d. Tentukan subnet address yang terbentuk

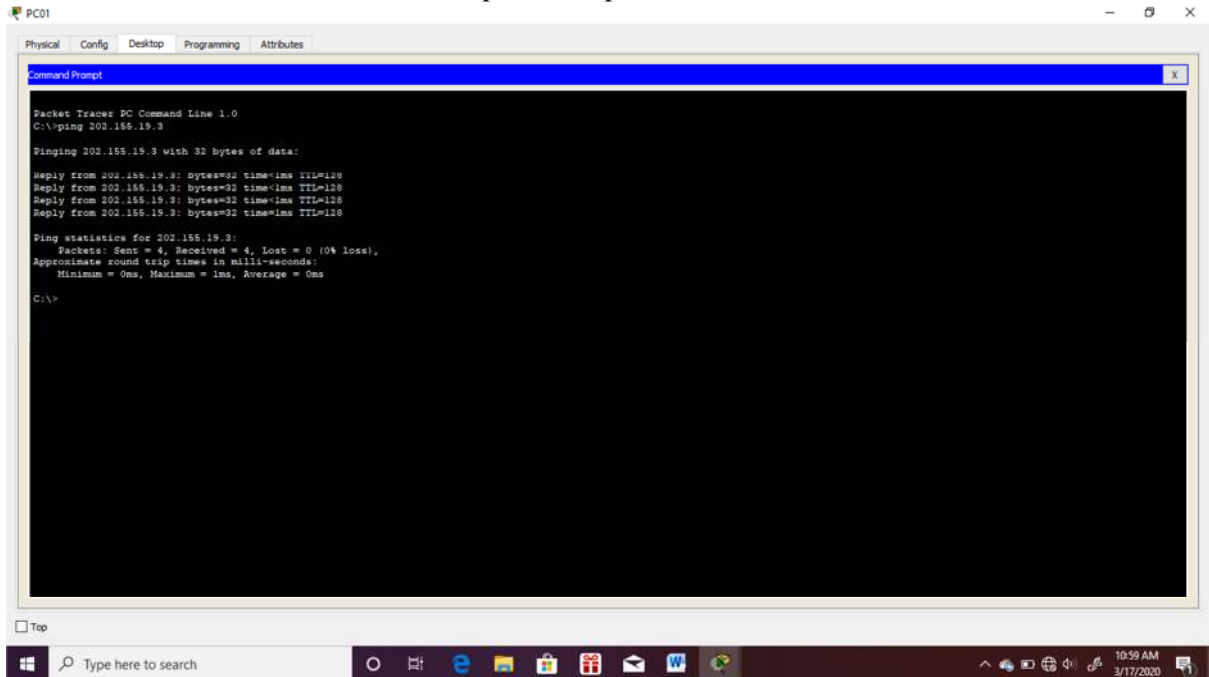
$$\begin{aligned}
 \text{Host} &= 2^y - 2 = 2^5 - 2 & \text{blok subnet} &= 256 - 224 \\
 &= 32 - 2 & &= 32 \\
 &= 30
 \end{aligned}$$

Network	202.155.19.0	202.155.19.32	202.155.19.64	202.155.19.96	202.155.19.128
Host 1	202.155.19.1	202.155.19.33	202.155.19.65	202.155.19.97	202.155.19.129
Host 2	202.155.19.30	202.155.19.62	202.155.19.94	202.155.19.126	202.155.19.158
Broad cast	202.155.19.31	202.155.19.63	202.155.19.95	202.155.19.127	202.155.19.159

e. Implementasikan menggunakan simulator



f. Lakukan tes koneksi antara komputer-komputer



PC01

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 202.155.19.3

Pinging 202.155.19.3 with 32 bytes of data:

Reply from 202.155.19.3: bytes=32 time=1ms TTL=128
Reply from 202.155.19.3: bytes=32 time=1ms TTL=128
Reply from 202.155.19.3: bytes=32 time=1ms TTL=128
Reply from 202.155.19.3: bytes=32 time=1ms TTL=128

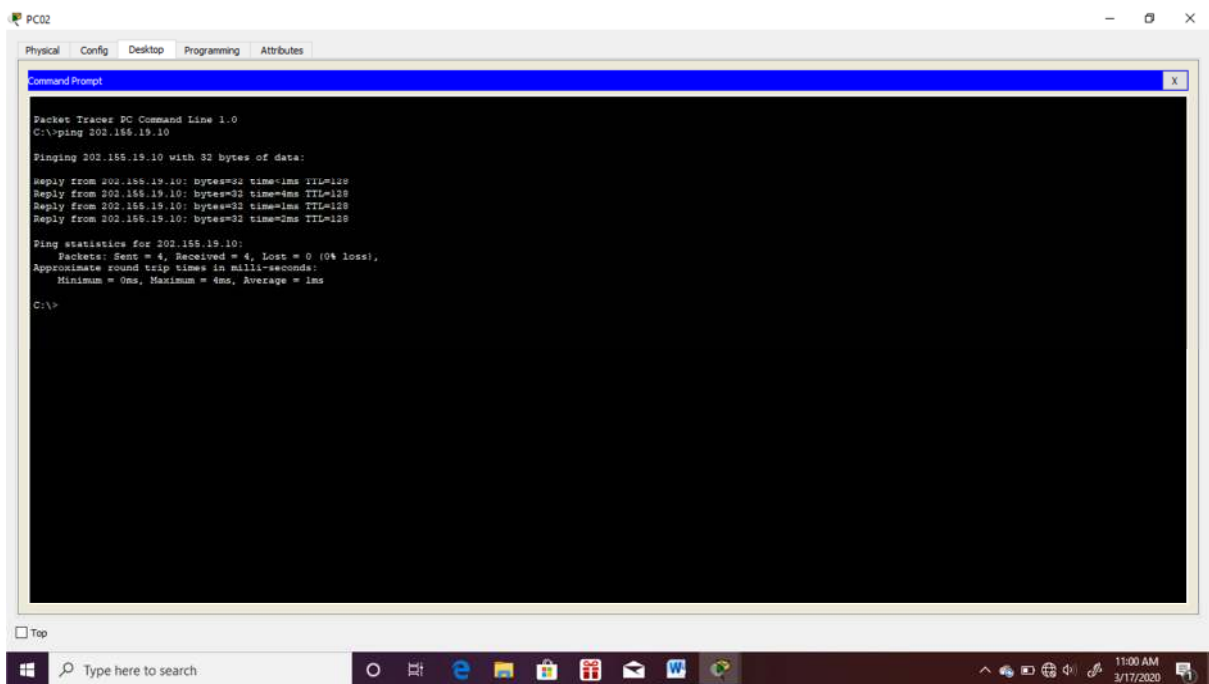
Ping statistics for 202.155.19.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

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PC02

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 202.155.19.10

Pinging 202.155.19.10 with 32 bytes of data:

Reply from 202.155.19.10: bytes=32 time=1ms TTL=128
Reply from 202.155.19.10: bytes=32 time=1ms TTL=128
Reply from 202.155.19.10: bytes=32 time=1ms TTL=128
Reply from 202.155.19.10: bytes=32 time=1ms TTL=128

Ping statistics for 202.155.19.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 1ms

C:\>
```

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