

Nama : Dimas Kurniawan

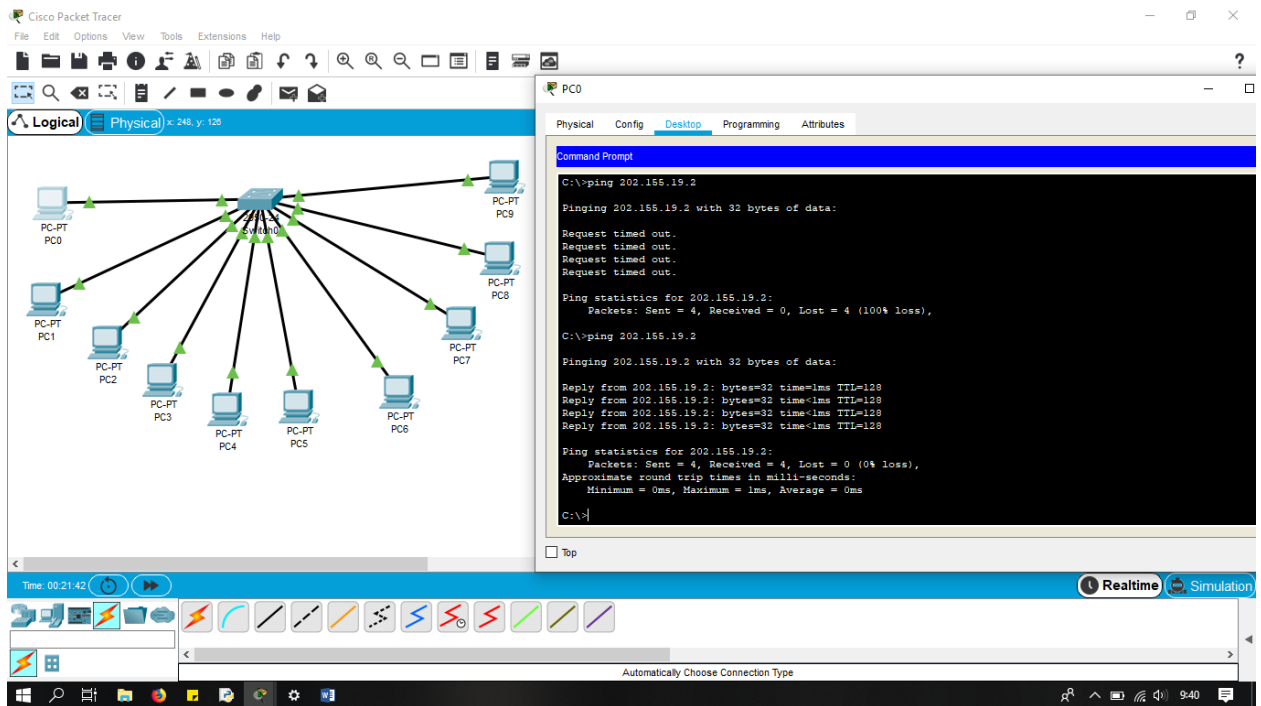
NIM : L200170122

Kelas : C

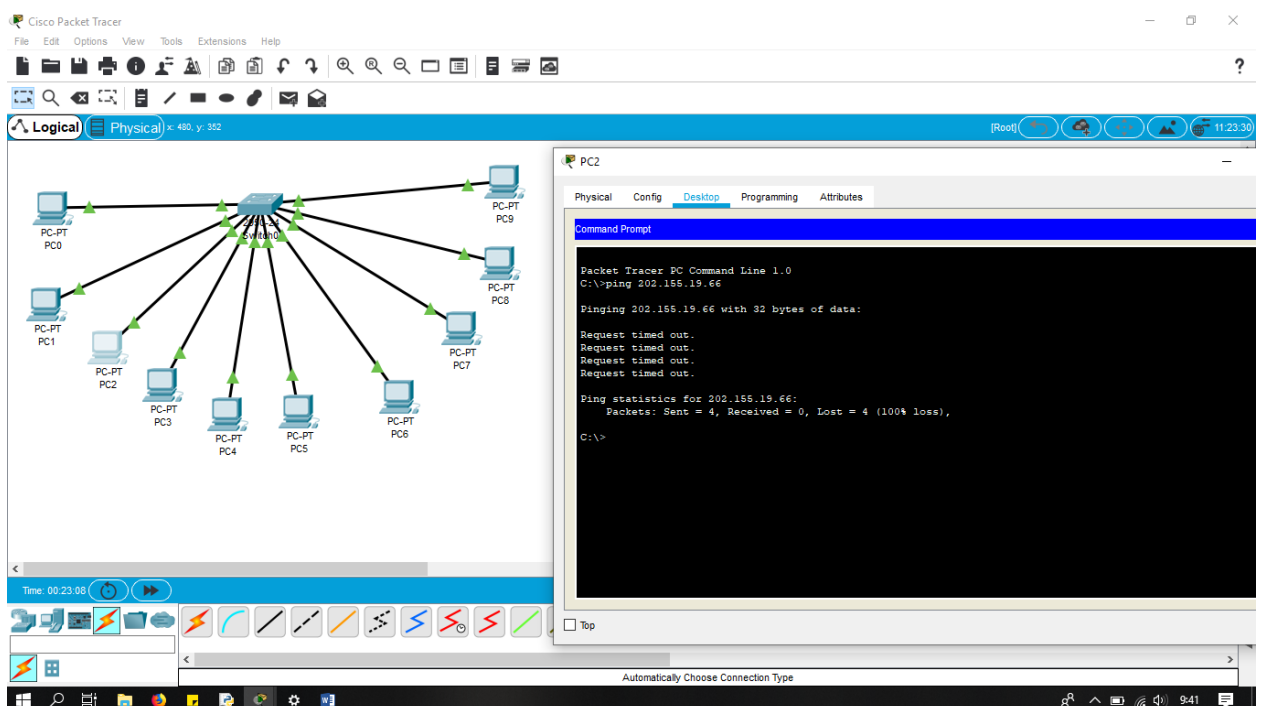
Modul : 3

TUGAS

1. PC0-PC1



PC2-PC5



PC3-PC4

The network diagram shows a central switch connected to 10 PCs (PC0-PC9). PC3 and PC4 are highlighted. A command prompt window for PC3 shows a successful ping to 202.155.19.34.

```
Packet Tracer PC Command Line 1.0
C:\>ping 202.155.19.34

Pinging 202.155.19.34 with 32 bytes of data:

Reply from 202.155.19.34: bytes=32 time=5ms TTL=128
Reply from 202.155.19.34: bytes=32 time=4ms TTL=128
Reply from 202.155.19.34: bytes=32 time=2ms TTL=128
Reply from 202.155.19.34: bytes=32 time=10ms TTL=128

Ping statistics for 202.155.19.34:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 10ms, Average = 5ms

C:\>
```

PC7-PC9

The network diagram shows a central switch connected to 10 PCs (PC0-PC9). PC7 and PC9 are highlighted. A command prompt window for PC7 shows a failed ping to 202.155.19.130.

```
Packet Tracer PC Command Line 1.0
C:\>ping 202.155.19.130

Pinging 202.155.19.130 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 202.155.19.130:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

2. Subnet Mask yang digunakan yaitu 255.255.255.224

Didapat dari pengubahan bilangan biner 00000000 pada blok terakhir menjadi bilangan biner 1. 11111111.11111111.11111111.00000000 -> 11111111.11111111.11111111.11100000

Karena diperlukan 5 subnet, maka dengan mengubah 3 digit biner 0 menjadi biner 1 sudah didapatkan $2^3 = 8$ Subnet, dan sudah mencukupi

- JumlahSubnet
 $(2^x) 2^3 = 8\text{Subnet}$
- Host perSubnet
 $(2^y - 2) 2^5 - 2 = 30\text{Host}$
- Block Subnet
 $256 - 224 = 32\text{IP}$
- Tabel Subnet

Netw Ork	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
IP Awal	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
Ip Akhir	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
Broa Dcast	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