

Nama : Reza Aristo Rifandi

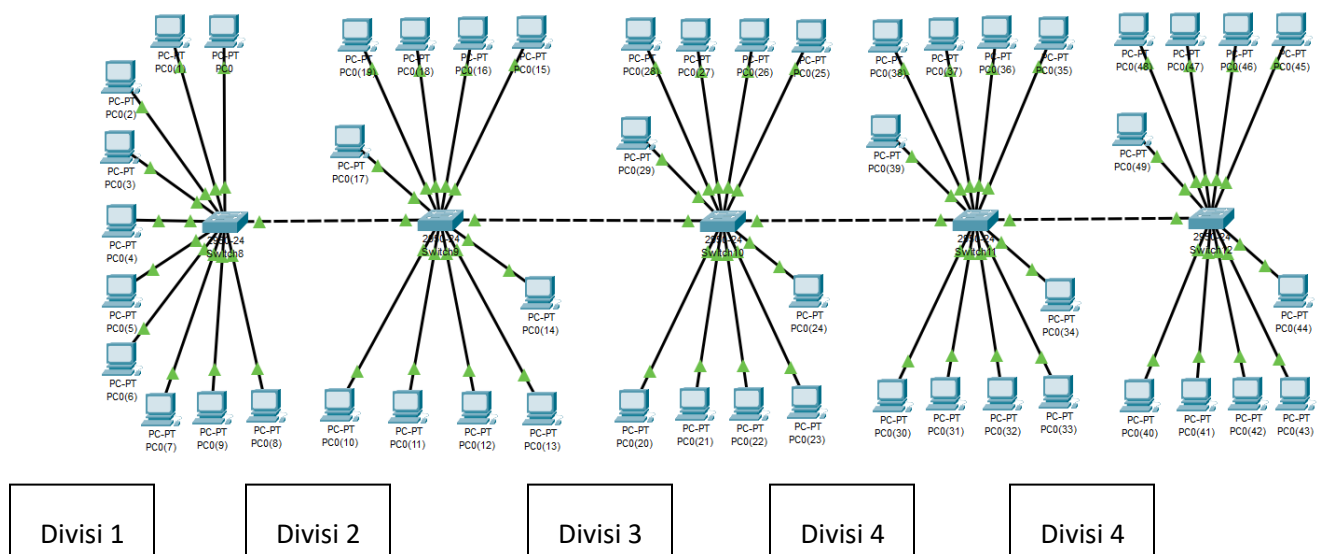
NIM : L200180206

Kelas : E

### Tugas Jaringan Komunikasi Modul 3 Praktikum

Tugas :

1. Diketahui sebuah supermarket akan memasa sebuah jaringan computer yang menggunakan network ID 202.155.19.0 dengan subnet mask default 255.255.255.0. supermarket tersebut mempunyai 5 divisi dan masing-masing divisi dapat berisi hingga 25 komputer.
2. Tugas anda adalah :
  - Buatlah desain jaringan dengan Packet Tracer
  - Gunakan Switch generic dan 10 pc



- Tentukan Subnet mask yang harus digunakan pada semua computer

Kita butuh 5 divisi, maka nilai X dari rumus subnet, didapatkan  $X = 3$ , jadi terdapat 3 bit 1 dalam subnet mask. Karena dalam satu blok terdapat 8 bit, maka didapatkan  $Y = 5$ . Jadi terdapat 5 bit 0, sehingga didapatkan :

11111111.11111111.11111111.11100000

255      255      255      224

- Tentukan subnet address yang terbentuk

$256 - 224 = 32$  IP Address

1. 202.155.19.0
2. 202.155.19.32
3. 202.155.19.64
4. 202.155.19.98
5. 202.155.19.130

Pengisian IP Address

PC0

Physical Config **Desktop** Programming Attributes

**IP Configuration** X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 202.155.19.1

Subnet Mask 255.255.255.224

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::20B:BEFF:FE48:C31E

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

Physical Config **Desktop** Programming Attributes

**IP Configuration** [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 202.155.19.33

Subnet Mask: 255.255.255.224

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::20C:85FF:FE01:EA68

IPv6 Gateway:

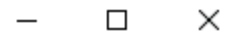
IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

☐ Top

PC0(15)



Physical Config **Desktop** Programming Attributes

### IP Configuration



Interface FastEthernet0

#### IP Configuration

☐ DHCP ☒ Static

IP Address 202.155.19.66

Subnet Mask 255.255.255.224

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

#### IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2D0:BCFF:FE25:6C1E

IPv6 Gateway

IPv6 DNS Server

#### 802.1X

☐ Use 802.1X Security

☐ Top

Physical Config **Desktop** Programming Attributes

## IP Configuration

X

Interface FastEthernet0

## IP Configuration

☐ DHCP ☒ Static

IP Address 202.155.19.100

Subnet Mask 255.255.255.224

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

## IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address

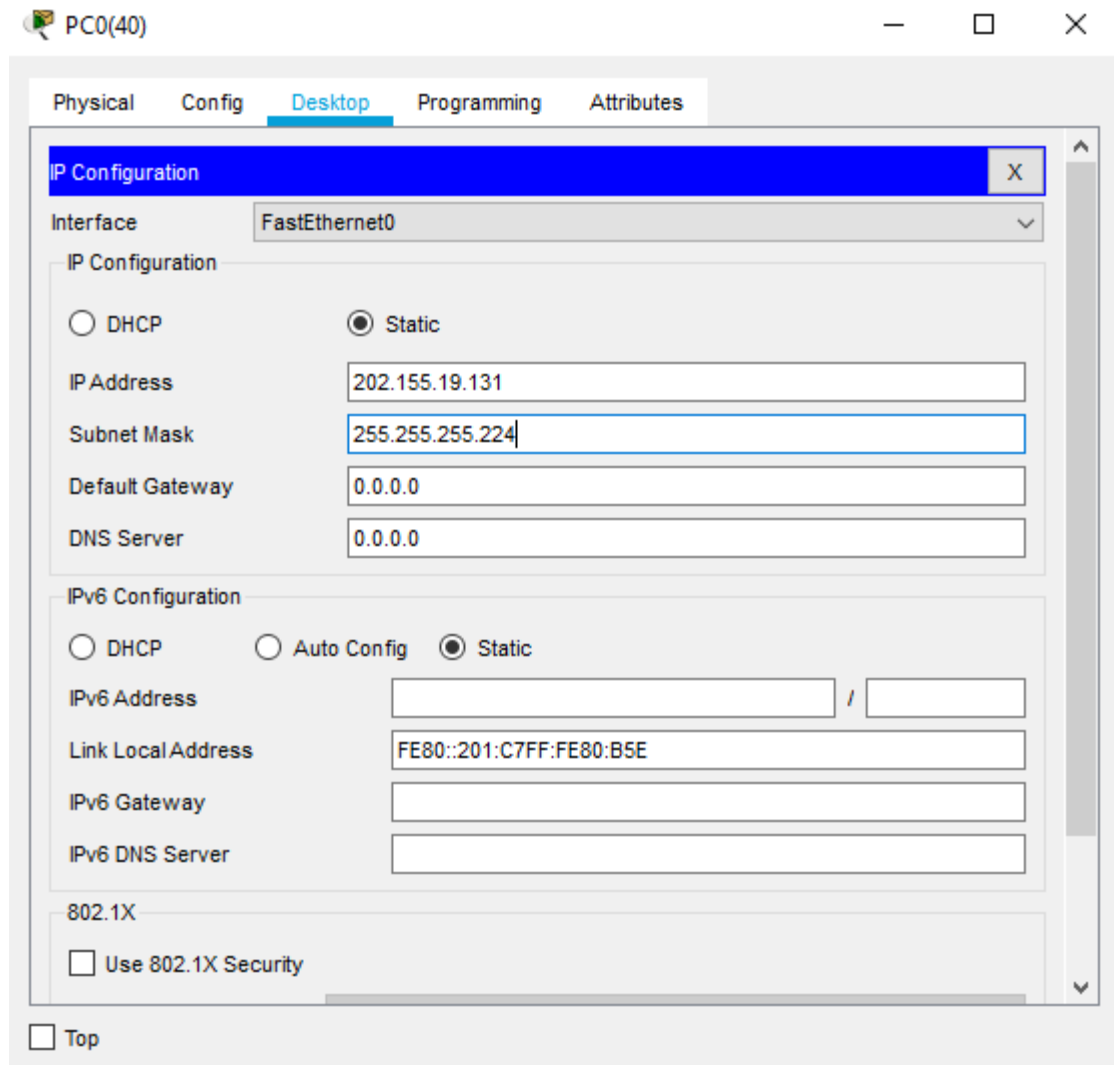
FE80::210:11FF:FE03:213D

IPv6 Gateway

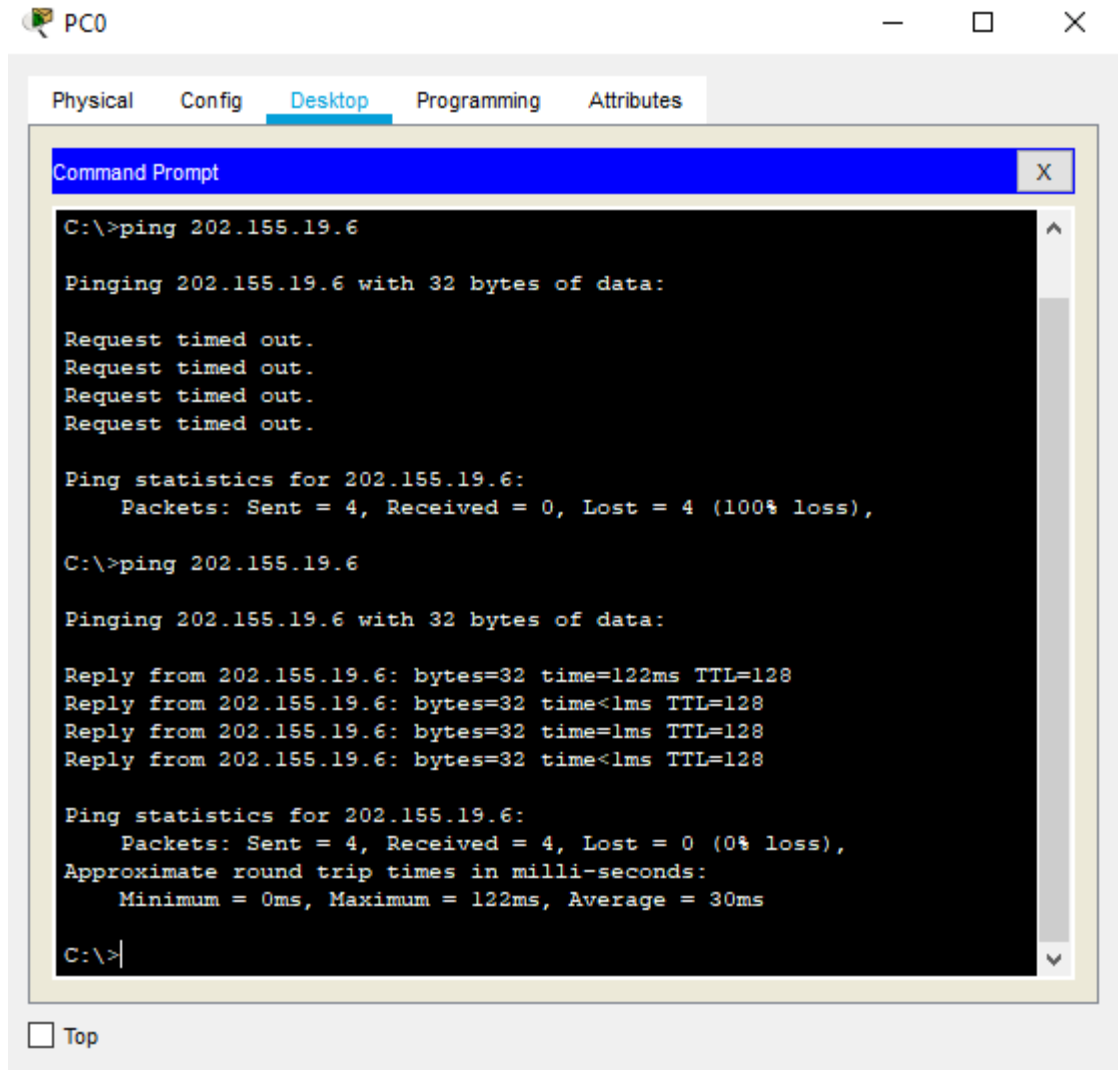
IPv6 DNS Server

## 802.1X

☐ Use 802.1X Security☐ Top



- Implementasikan menggunakan simulator
  - Lakukan tes koneksi antara computer yang ada
1. Ping dari PC 1 ke PC di divisi 1



2. Ping dari PC1 ke PC10

Physical Config Desktop Programming Attributes

Command Prompt

X

```
C:\>ping 202.155.19.6
```

```
Pinging 202.155.19.6 with 32 bytes of data:
```

```
Reply from 202.155.19.6: bytes=32 time=122ms TTL=128
```

```
Reply from 202.155.19.6: bytes=32 time<1ms TTL=128
```

```
Reply from 202.155.19.6: bytes=32 time=1ms TTL=128
```

```
Reply from 202.155.19.6: bytes=32 time<1ms TTL=128
```

```
Ping statistics for 202.155.19.6:
```

```
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

```
Approximate round trip times in milli-seconds:
```

```
    Minimum = 0ms, Maximum = 122ms, Average = 30ms
```

```
C:\>ping 202.155.19.33
```

```
Pinging 202.155.19.33 with 32 bytes of data:
```

```
Request timed out.
```

```
Request timed out.
```

```
Request timed out.
```

```
Request timed out.
```

```
Ping statistics for 202.155.19.33:
```

```
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
C:\>
```

☐ Top