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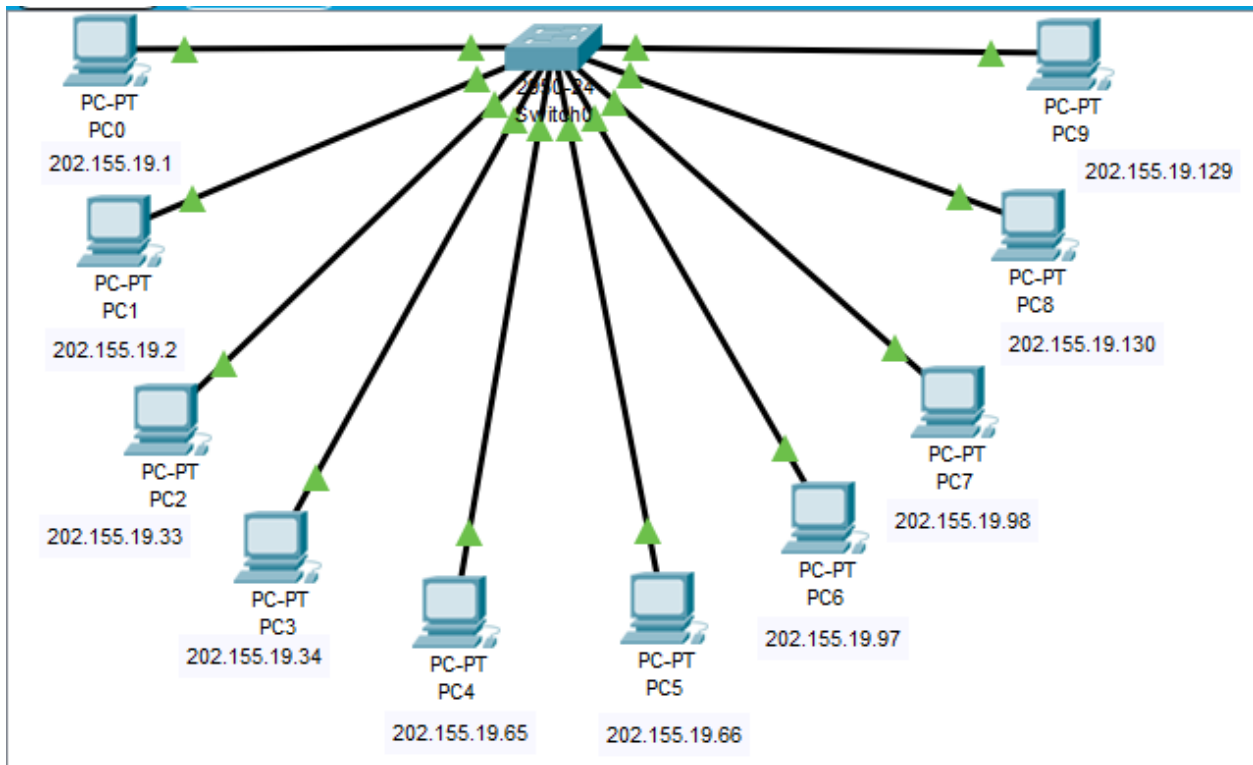
Kelas : D

Modul: III

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### Tugas Modul III

#### 1. Menyusun jaringan terdiri dari 1 buah switch dan 10 buah unit PC



#### 2. Menentukan subnet mask yang harus digunakan pada semua komputer, tiap divisi dapat menampung hingga 25 unit PC dan subnet mask default yaitu 255.255.255.0 (11111111). Karena hanya butuh 5 maka ambil 3 bit dari sebelah kiri.

- $2^3 - 2 = 6$ , binernya (11100000)
- Sehingga,  $(1 \times 27) + (1 \times 26) + (1 \times 25) + (0 \times 24) + (0 \times 23) + (0 \times 22) + (0 \times 21) + (0 \times 20) = 224$
- Range IP yang didapat :  $256 - 224 = 32$  IP Address, dimana dengan ini syarat bahwa tiap-tiap divisi dapat menampung hingga 25 komputer dapat terpenuhi

- IP Address

IP Address awal	IP Address akhir	Subnet Address
202.155.19.1	202.155.19.31	202.155.19.0
202.155.19.33	202.155.19.63	202.155.19.32
202.155.19.65	202.155.19.95	202.155.19.64
202.155.19.97	202.155.19.127	202.155.19.96
202.155.19.129	202.155.19.159	202.155.19.128
202.155.19.161	202.155.19.191	202.155.19.160
202.155.19.193	202.155.19.223	202.155.19.192

3. Setelah itu memberikan alamat IP pada masing-masing PC berdasarkan masing masing divisi dengan menggunakan subnet mask 255.255.255.224

The screenshot shows the configuration window for PC0. The 'Desktop' tab is selected, displaying the following settings:

- Physical:** DHCP (unselected)
- Static:** Selected
- 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 (unselected)
  - Auto Config (unselected)
  - Static (selected)
  - IPv6 Address: [Empty field] / [Empty field]
  - Link Local Address: FE80::20B:BEFF:FEA2:1895
  - IPv6 Gateway: [Empty field]
  - IPv6 DNS Server: [Empty field]
- 802.1X:**
  - Use 802.1X Security: [Unchecked]
  - Authentication: MD5
  - Username: [Empty field]
  - Password: [Empty field]

At the bottom left, there is a 'Top' button.

PC2

Physical Config **Desktop** Programming Attributes

☐ 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::203:E4FF:FE04:107A

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

PC4

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address 202.155.19.65

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::201:97FF:FE04:8922

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

PC6

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address 202.155.19.97

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::201:C9FF:FE8C:7284

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

PC9

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address 202.155.19.129

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::201:C9FF:FE4C:3023

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

PC1 = 202.155.19.1 –31  
PC2 = 202.155.19.33 –63  
PC3 = 202.155.19.65 –95  
PC4 = 202.155.19.97 –127  
PC5 = 202.155.19.129 –159

#### 4. Melakukan Ping

