

SUBNETTING No.3

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Tugas Praktikum 7 No. 3

1. Konfigurasi VTP

```
SW-Server(config)#vtp mode server
Device mode already VTP SERVER.
SW-Server(config)#vtp domain ilkom2024.com
Domain name already set to ilkom2024.com.
SW-Server(config)#vtp password atmin
Password already set to atmin
SW-Server(config)#ex

SW-Pengawas(config)#vtp mod cli
Device mode already VTP CLIENT.
SW-Pengawas(config)#vtp dom ilkom2024.com
Domain name already set to ilkom2024.com.
SW-Pengawas(config)#vtp pass atmin
Password already set to atmin
SW-Pengawas(config)#ex

SW-Pengunjung&Pegawai(config)#vtp mod cli
Device mode already VTP CLIENT.
SW-Pengunjung&Pegawai(config)#vtp dom ilkom2024.com
Domain name already set to ilkom2024.com.
SW-Pengunjung&Pegawai(config)#vtp pass atmin
Password already set to atmin
SW-Pengunjung&Pegawai(config)#ex

SW-Rapat(config)#vtp mod cli
Device mode already VTP CLIENT.
SW-Rapat(config)#vtp dom ilkom2024.com
Domain name already set to ilkom2024.com.
SW-Rapat(config)#vtp pass atmin
Password already set to atmin
SW-Rapat(config)#ex

SW-CEO(config)#vtp mod cli
Device mode already VTP CLIENT.
SW-CEO(config)#vtp dom ilkom2024.com
Domain name already set to ilkom2024.com.
SW-CEO(config)#vtp pass atmin
Password already set to atmin
SW-CEO(config)#ex
```

2. Membuat Vlan 10 - 60

```
SW-Server(config)#vlan 10
SW-Server(config-vlan)#name PENGUNJUNG
SW-Server(config-vlan)#ex
SW-Server(config)#vlan 20
SW-Server(config-vlan)#name RAPAT
SW-Server(config-vlan)#ex
SW-Server(config)#vlan 30
SW-Server(config-vlan)#name PEGAWAI
SW-Server(config-vlan)#vlan 40
SW-Server(config-vlan)#name CEO
SW-Server(config-vlan)#vlan 50
SW-Server(config-vlan)#name SERVER
SW-Server(config-vlan)#vlan 60
SW-Server(config-vlan)#name PENGAWAS
SW-Server(config-vlan)#ex
```

3. Konfigurasi Trunk dan Access pada Setiap Switch

- SW-Server

```
SW-Server(config)#int ra fa0/21-24
SW-Server(config-if-range)#sw mod tru
SW-Server(config-if-range)#sw tru allow vlan all
SW-Server(config-if-range)#ex
SW-Server(config)#int fa0/1
SW-Server(config-if)#sw mod acc
SW-Server(config-if)#sw acc vlan 50
SW-Server(config-if)#ex
```

- SW-Pengawas

```
SW-Pengawas(config)#int fa0/24
SW-Pengawas(config-if)#sw mod tru
SW-Pengawas(config-if)#sw tru all vlan all
SW-Pengawas(config-if)#ex
SW-Pengawas(config)#int fa0/1
SW-Pengawas(config-if)#sw mod acc
SW-Pengawas(config-if)#sw acc vlan 60
SW-Pengawas(config-if)#ex
```

- SW-Rapat

```
SW-Rapat(config)#int ra fa0/23-24
SW-Rapat(config-if-range)#sw mod tru
SW-Rapat(config-if-range)#sw tru all vlan all
SW-Rapat(config-if-range)#int ra fa0/11-14
SW-Rapat(config-if-range)#sw mod acc
SW-Rapat(config-if-range)#sw acc vlan 20
SW-Rapat(config-if-range)#ex
```

- SW-Pengunjung & Pegawai

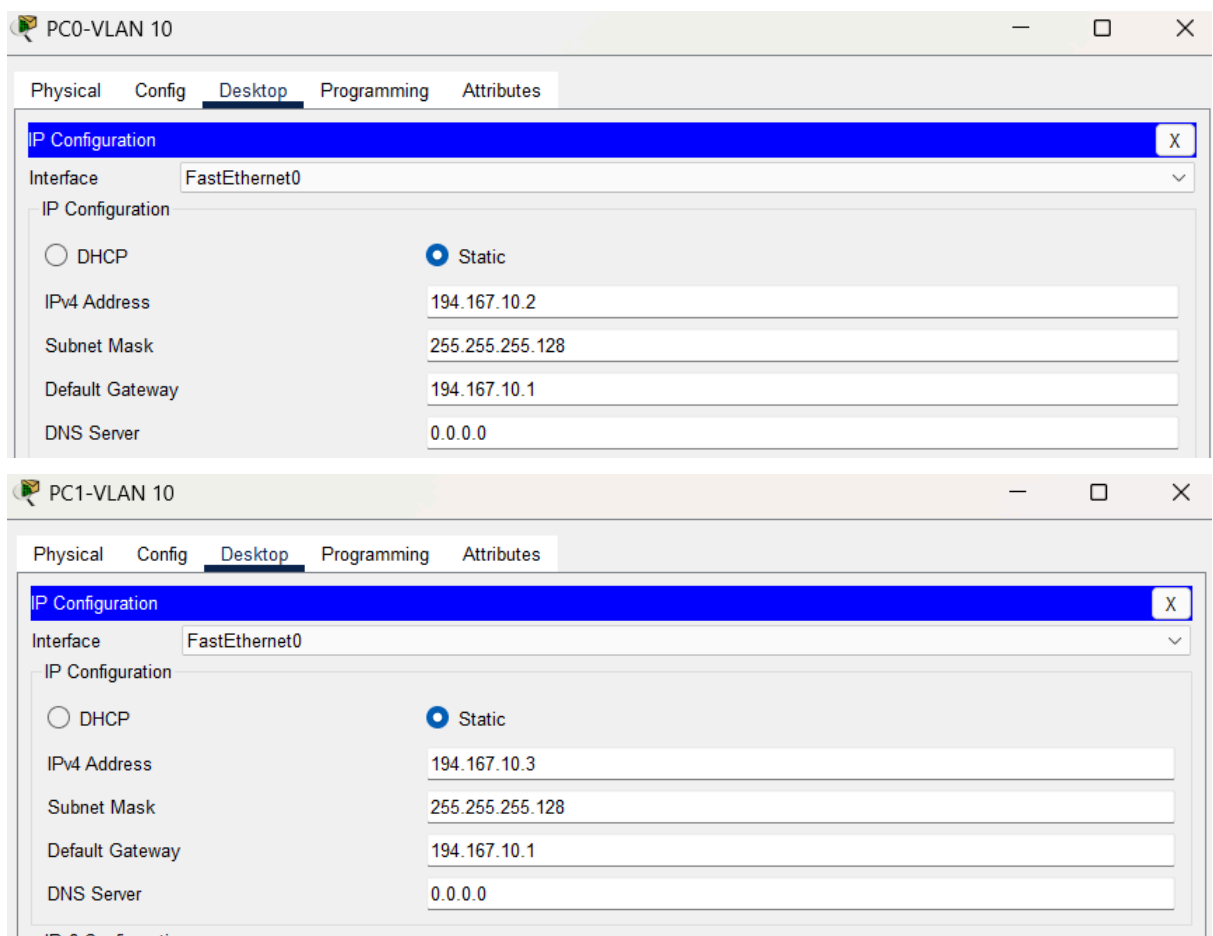
```
SW-Pengunjung&Pegawai(config)#int fa0/24
SW-Pengunjung&Pegawai(config-if)#sw mod tru
SW-Pengunjung&Pegawai(config-if)#sw tru all vlan all
SW-Pengunjung&Pegawai(config-if)#int ra fa0/1-3
SW-Pengunjung&Pegawai(config-if-range)#sw mod acc
SW-Pengunjung&Pegawai(config-if-range)#sw acc vlan 10
SW-Pengunjung&Pegawai(config-if-range)#int ra fa0/6-8
SW-Pengunjung&Pegawai(config-if-range)#sw mod acc
SW-Pengunjung&Pegawai(config-if-range)#sw acc vlan 30
SW-Pengunjung&Pegawai(config-if-range)#ex
```

- SW-CEO

```
SW-CEO(config)#int fa0/24
SW-CEO(config-if)#sw mod tru
SW-CEO(config-if)#sw tru all vlan all
SW-CEO(config-if)#int ra fa0/21-22
SW-CEO(config-if-range)#sw mod acc
SW-CEO(config-if-range)#sw acc vlan 40
SW-CEO(config-if-range)#ex
```

4. Konfigurasi IP pada Setiap PC di masing-masing VLAN

- VLAN 10



PC2-VLAN 10

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 194.167.10.4

Subnet Mask 255.255.255.128

Default Gateway 194.167.10.1

DNS Server 0.0.0.0

- VLAN 20

PC3-VLAN 20

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 194.167.20.2

Subnet Mask 255.255.255.192

Default Gateway 194.167.20.1

DNS Server 0.0.0.0

PC4-VLAN 20

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 194.167.20.3

Subnet Mask 255.255.255.192

Default Gateway 194.167.20.1

DNS Server 0.0.0.0

PC5-VLAN 20

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 194.167.20.4

Subnet Mask 255.255.255.192

Default Gateway 194.167.20.1

DNS Server 0.0.0.0

PC6-VLAN 20

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 194.167.20.5

Subnet Mask 255.255.255.192

Default Gateway 194.167.20.1

DNS Server 0.0.0.0

- VLAN 30

PC7-VLAN 30

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 194.167.30.2

Subnet Mask 255.255.255.224

Default Gateway 194.167.30.1

DNS Server 0.0.0.0

PC8-VLAN 30

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 194.167.30.3

Subnet Mask 255.255.255.224

Default Gateway 194.167.30.1

DNS Server 0.0.0.0

PC9-VLAN 30

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 194.167.30.4

Subnet Mask 255.255.255.224

Default Gateway 194.167.30.1

DNS Server 0.0.0.0

- VLAN 40

PC10-VLAN 40

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 194.167.40.2

Subnet Mask 255.255.255.240

Default Gateway 194.167.40.1

DNS Server 0.0.0.0

PC11-VLAN 40

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 194.167.40.3

Subnet Mask 255.255.255.240

Default Gateway 194.167.40.1

DNS Server 0.0.0.0

- VLAN 50

PC12-VLAN 50

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 194.167.50.2

Subnet Mask 255.255.255.248

Default Gateway 194.167.50.1

DNS Server 0.0.0.0

- VLAN 60

PC13-VLAN 60

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 194.167.60.2

Subnet Mask 255.255.255.252

Default Gateway 194.167.50.1

DNS Server 0.0.0.0

5. Konfigurasi inter VLAN

```
Router(config)#int fa0/0.10
Router(config-subif)#encap dot1q 10
Router(config-subif)#ip add 194.167.10.1 255.255.255.128
Router(config-subif)#int fa0/0.20
Router(config-subif)#encap dot1q 20
Router(config-subif)#ip add 194.167.20.1 255.255.255.192
Router(config-subif)#int fa0/0.30
Router(config-subif)#encap dot1q 30
Router(config-subif)#ip add 194.167.30.1 255.255.255.224
Router(config-subif)#int fa0/0.40
Router(config-subif)#encap dot1q 40
Router(config-subif)#ip add 194.167.40.1 255.255.255.240
Router(config-subif)#int fa0/0.50
Router(config-subif)#encap dot1q 50
Router(config-subif)#ip add 194.167.50.1 255.255.255.248
Router(config-subif)#int fa0/0.60
Router(config-subif)#encap dot1q 60
Router(config-subif)#ip add 194.167.60.1 255.255.255.252
Router(config-subif)#ex
```