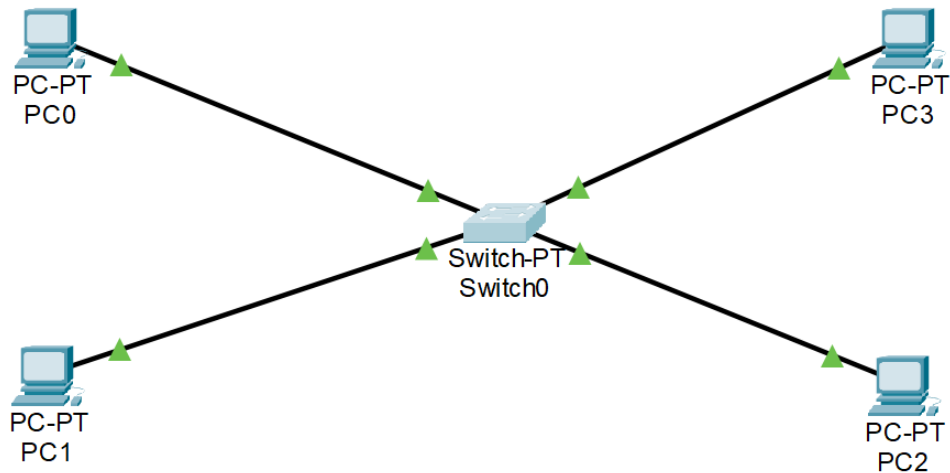Laporan Praktikum Pertemuan 5

1. Membuat VLAN dengan CLI dan Interface

➢ Topologi Jaringan



➢ Membuat dengan CLI di Switch

```
Switch>enable
Switch#swsconf t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name lab1
Switch(config-vlan)#vlvexit
Switch(config)#cvlan 11
Switch(config-vlan)#name lab2
Switch(config-vlan)#
Switch(config-vlan)#end
Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#
Switch(config)#
%SYS-5-CONFIG_I: Configured from console by console

Switch(config)#
Switch(config)#vlan 12
Switch(config-vlan)# name lab3
Switch(config-vlan)#vlan 13
Switch(config-vlan)# name lab4
Switch(config-vlan)#
```

➢ Dengan Interface

Output:



Failed karena berbeda Port VLAN

2. Konfigurasi Device Dengan memakai DHCP

  ➢ Topologi Jaringan
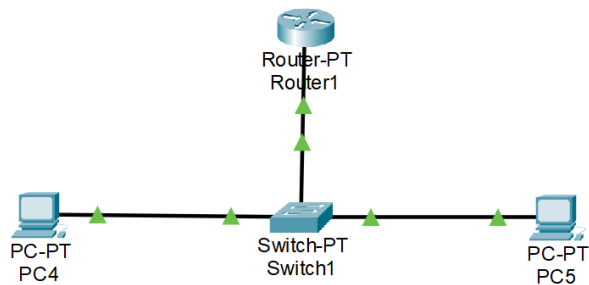


  ➢ Konfigurasi CLI Router1

```
Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname router0
router0(config)#int fa0/0
router0(config-if)#no shutdown

router0(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

router0(config-if)#int fa0/0.10
router0(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.10, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.10, changed state to up

router0(config-subif)#encapsulation dot1q 10
router0(config-subif)#ip add 192.168.10.1 255.255.255.0
router0(config-subif)#exit
router0(config)#int fa0/0.20
router0(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.20, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.20, changed state to up

router0(config-subif)#encapsulation dot1q 20
router0(config-subif)#ip add 192.168.20.1 255.255.255.0
router0(config-subif)#exit
router0(config)#ip dhcp pool vlan10
router0(dhcp-config)#network 192.168.10.1 255.255.255.0
router0(dhcp-config)#default-router 192.168.10.1
router0(dhcp-config)#ip dhcp pool vlan20
router0(dhcp-config)#network 192.168.20.1 255.255.255.0
router0(dhcp-config)#default-router 192.168.20.1
router0(dhcp-config)#exit
router0(config)#
```

Catatan:

Fa 0/0.10

Fast ethernet 0/0 Vlan 10

Fa 0/0.20

Fast ethernet 0/0 Vlan 20

> ➢ Konfigurasi Swith 1

```
Switch>enable
Switch#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#vlan 20
Switch(config-vlan)#int fa0/1
Switch(config-if)#switchport mode trunk
```

```
Switch(config-if)#exit
Switch(config)#int fa1/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#
Switch(config-if)#exit
```

➢ Ubah VLAN Fast Ethernet 2/1 ke VLAN 20

| Physical | Config | CLI | Attributes |

FastEthernet2/1

Port Status ☑ On
Bandwidth ○ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex ○ Half Duplex ○ Full Duplex ☑ Auto

Access ⌄        VLAN        20 ▾

Tx Ring Limit        10

GLOBAL
Settings
Algorithm Settings
SWITCHING
VLAN Database
INTERFACE
FastEthernet0/1
FastEthernet1/1
FastEthernet2/1
FastEthernet3/1
FastEthernet4/1
FastEthernet5/1

Output:

| Fire | Last Status | Source | Destination | Type |
| --- | --- | --- | --- | --- |
| ● | Successful | PC4 | PC5 | ICMP |