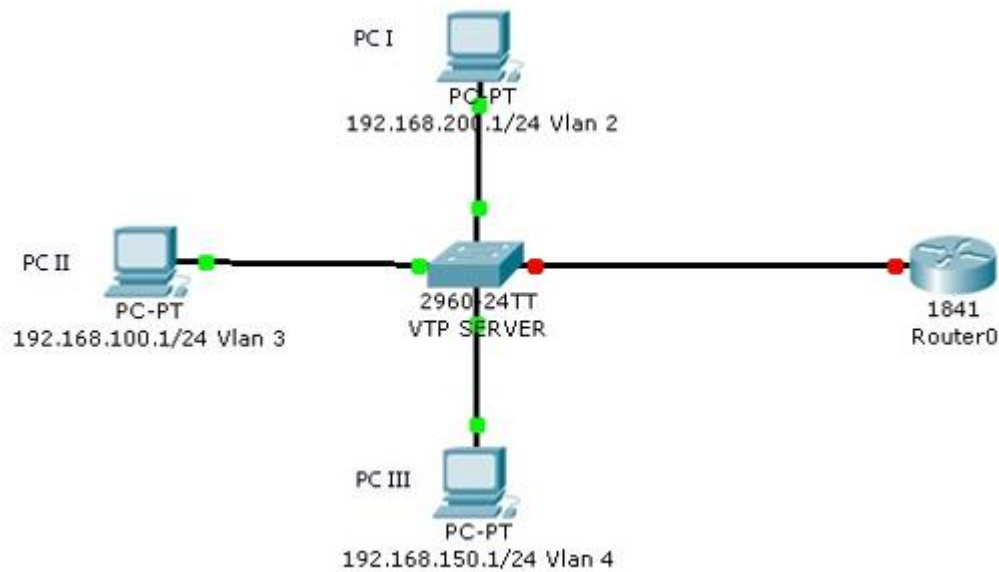Nama : Euis zahra putri

Nim : 09010182327018

Kelas : MI 3A

Matkul : Pratikum Jaringan Komputer

LAPORAN PRATIKUM JARINGAN KOMPUTER


```
SWITCH_09010182327018>en
Password:
SWITCH_09010182327018#show vlan

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/4, Fa0/5, Fa0/6, Fa0/7
                                                Fa0/8, Fa0/9, Fa0/10, Fa0/11
                                                Fa0/12, Fa0/13, Fa0/14, Fa0/15
                                                Fa0/16, Fa0/17, Fa0/18, Fa0/19
                                                Fa0/20, Fa0/21, Fa0/22, Fa0/23
                                                Gig0/1, Gig0/2
2    Humas                            active    Fa0/1
3    Keuangan                         active    Fa0/2
4    IT                               active    Fa0/3
5    Pimpinan                         active
1002 fddi-default                     active
1003 token-ring-default               active
1004 fddinet-default                  active
1005 trnet-default                    active
```

VLAN	NAME	STATUS	PORT
1	Default	active	Fa0/4, fa0/5, fa0/6, fa0/7, fa0/8, fa0/9, fa0/10, fa0/11, fa0/12, fa013, fa0/14, fa0/15, fa0/16, fa0/17, fa0/18, fa0/19, fa0/20, fa0/21, fa0/22, fa0/23 Gig0/1, Gig0/2
2	Humas	active	Fa0/1
3	Keuangan	active	Fa0/2
4	It	active	Fa0/3
5	Pimpinan	active	
1002	Fddi-default	active	
1003	Token-ring-default	active	
1004	Fddinet-default	active	
1005	Trnet-default	active	

Pc0

Pc1

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.200.2

Pinging 192.168.200.2 with 32 bytes of data:

Reply from 192.168.200.2: bytes=32 time<1ms TTL=127
Reply from 192.168.200.2: bytes=32 time<1ms TTL=127
Reply from 192.168.200.2: bytes=32 time<1ms TTL=127
Reply from 192.168.200.2: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.200.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.150.2

Pinging 192.168.150.2 with 32 bytes of data:

Reply from 192.168.100.1: Destination host unreachable.
Reply from 192.168.100.1: Destination host unreachable.
Reply from 192.168.100.1: Destination host unreachable.
Reply from 192.168.100.1: Destination host unreachable.

Ping statistics for 192.168.150.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

Pc2

```
Pinging 192.168.150.2 with 32 bytes of data:

Reply from 192.168.150.2: bytes=32 time=12ms TTL=128
Reply from 192.168.150.2: bytes=32 time=12ms TTL=128
Reply from 192.168.150.2: bytes=32 time=1ms TTL=128
Reply from 192.168.150.2: bytes=32 time=10ms TTL=128

Ping statistics for 192.168.150.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 12ms, Average = 8ms

C:\>ping 192.168.200.2

Pinging 192.168.200.2 with 32 bytes of data:

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

Ping statistics for 192.168.200.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 192.168.200.2

Pinging 192.168.200.2 with 32 bytes of data:

Reply from 192.168.200.2: bytes=32 time<1ms TTL=127
Reply from 192.168.200.2: bytes=32 time<1ms TTL=127
Reply from 192.168.200.2: bytes=32 time<1ms TTL=127
Reply from 192.168.200.2: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.200.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

No	Sumber	Tujuana]	Hasil	
			Ya	Tidak
1	Pc1	Pc2	Ya	-
		Pc3		
2	Pc2	Pc1	Ya	-
		Pc3		
3	Pc3	Pc1	Ya	-
		Pc2		

Analisis:

1. **Konfigurasi VLAN**:

   o Terdapat beberapa VLAN yang telah dikonfigurasi, antara lain:

      ▪ **VLAN 1 (Default)** aktif, menggunakan port FastEthernet (Fa0/4 hingga Fa0/23) dan GigabitEthernet (Gig0/1 dan Gig0/2).

- **VLAN 2 (Humas)**, **VLAN 3 (Keuangan)**, **VLAN 4 (IT)**, dan **VLAN 5 (Pimpinan)** juga aktif, namun masing-masing hanya menggunakan satu port.

- Selain itu, VLAN default lain seperti **Fddi-default**, **Token-ring-default**, **Fddinet-default**, dan **Trnet-default** juga aktif.

2. **Uji Konektivitas**:

   o Pengujian koneksi antar perangkat menunjukkan bahwa komunikasi antar PC yang berada dalam VLAN yang sama berlangsung dengan lancar.

   o Sebagai contoh, **PC1** dapat berkomunikasi dengan **PC2** dan **PC3**, serta sebaliknya, sesuai dengan pengaturan VLAN yang diterapkan.

Kesimpulan: Percobaan ini berhasil menunjukkan bahwa konfigurasi VLAN yang dilakukan berfungsi sesuai dengan harapan. Setiap VLAN berhasil memisahkan segmen jaringan berdasarkan departemen atau tujuan tertentu. Komunikasi antar perangkat dalam VLAN yang sama berjalan tanpa hambatan, menandakan bahwa isolasi dan konfigurasi VLAN telah diterapkan dengan baik.