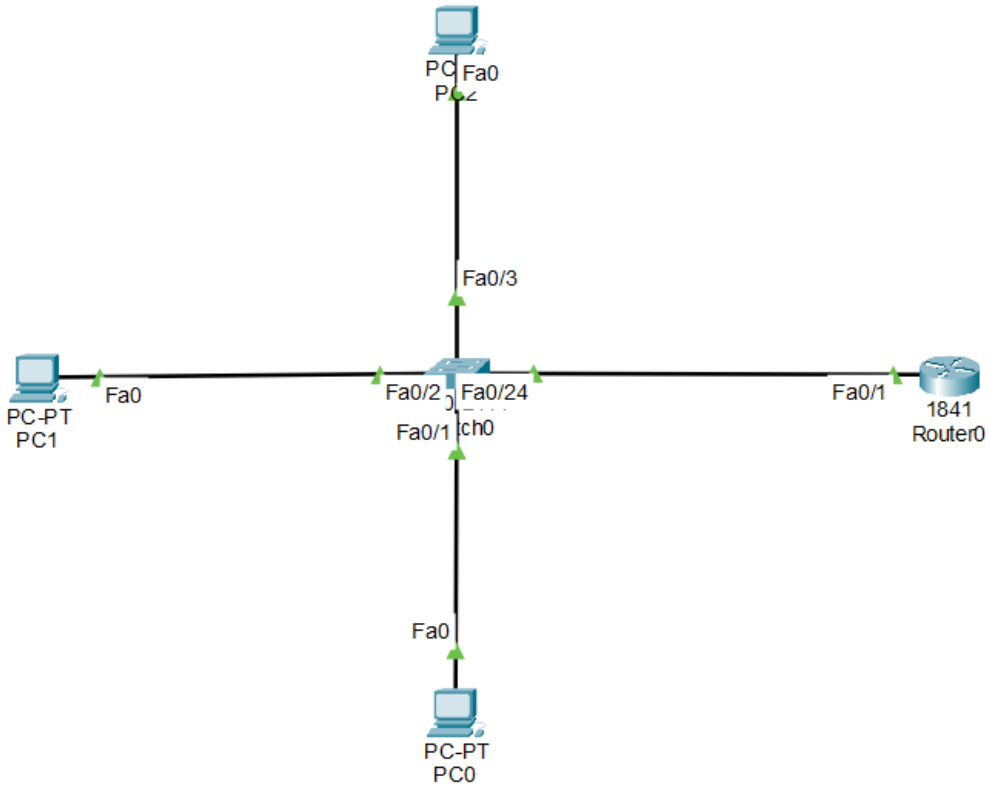
LAPORAN HASIL PRAKTIKUM

Nama	: Ridho Kurnia Harliz
Nim	: 09010182327019
Kelas	: MI-3A
Mata Kuliah	: Praktikum Jaringan Komputer (Vlan)

Hasil Percobaan :



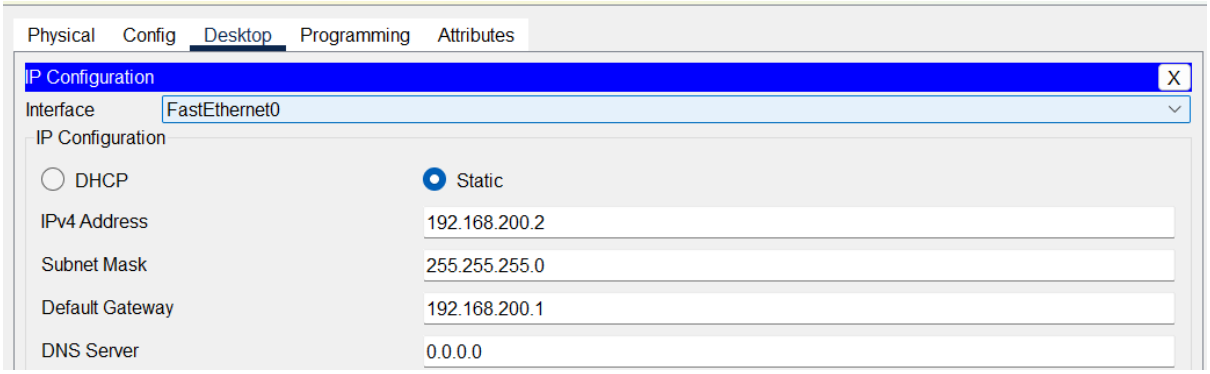
Vlan	Name	Status	Port
1	Default	active	Fa0/4, Fa0/5, Fa0/6, Fa0/7, Fa0/8, Fa0/9, Fa0/10, Fa0/11, Fa0/12, Fa0/13, Fa0/14, Fa0/15, Fa0/16, Fa0/17, Fa0/18, Fa0/18, Fa0/19, Fa0/20, Fa0/21, Fa0/22, Fa0/23, Fa0/24, Gig0/1, Gig0/2
2	Humas		Fa0/1
3	Keuangan		Fa0/2
4	IT		Fa0/3
5	Pimpinan		

Hasil Percobaan :

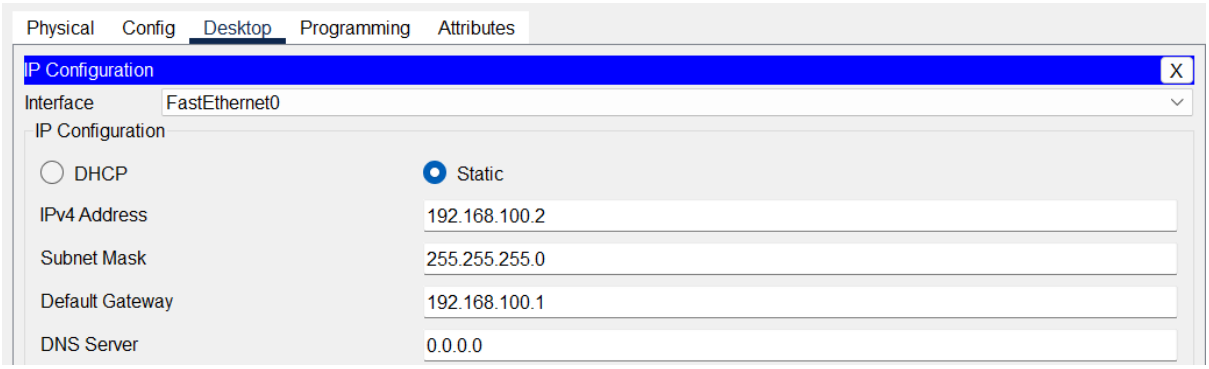
```
SWITCH_09010182327019#show vlan

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
                                                 Fa0/24, 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 Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------
1    enet  100001     1500  -      -      -        -    -        0      0
2    enet  100002     1500  -      -      -        -    -        0      0
 --More--
```

No	Nama Device	Alamat	Netmask
1	PC 0	192.168.200.2	255.255.255.0
2	PC 1	192.168.100.2	255.255.255.0
3	PC 2	192.168.150.2	255.255.255.0

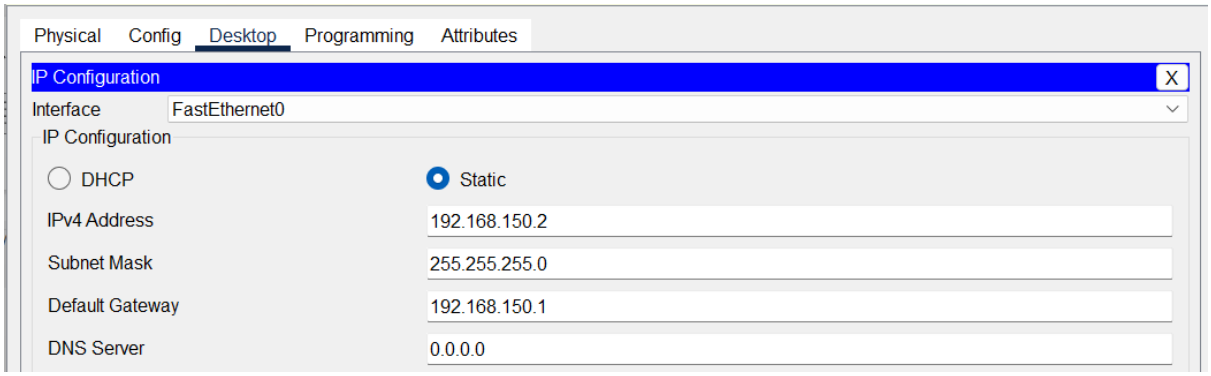
PC 0



PC 1



PC 2



Hasil Percobaan :

No	Sumber	Tujuan	Hasil	
			Ya	Tidak
1	PC 0	PC 1	Ya	
		PC 2	Ya	
2	PC 1	PC 0	Ya	
		PC 2	Ya	
3	PC 2	PC 0	Ya	
		PC 1	Ya	

PC 0

```
C:\>ping 192.168.200.1

Pinging 192.168.200.1 with 32 bytes of data:

Reply from 192.168.200.1: bytes=32 time<1ms TTL=255
Reply from 192.168.200.1: bytes=32 time<1ms TTL=255
Reply from 192.168.200.1: bytes=32 time<1ms TTL=255
Reply from 192.168.200.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.200.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.200.1

Pinging 192.168.200.1 with 32 bytes of data:

Reply from 192.168.200.1: bytes=32 time<1ms TTL=255
Reply from 192.168.200.1: bytes=32 time<1ms TTL=255
Reply from 192.168.200.1: bytes=32 time<1ms TTL=255
Reply from 192.168.200.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.200.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PC 1

```
C:\>ping 192.168.100.1

Pinging 192.168.100.1 with 32 bytes of data:

Reply from 192.168.100.1: bytes=32 time=15ms TTL=255
Reply from 192.168.100.1: bytes=32 time<1ms TTL=255
Reply from 192.168.100.1: bytes=32 time<1ms TTL=255
Reply from 192.168.100.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.100.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 15ms, Average = 3ms

C:\>ping 192.168.100.1

Pinging 192.168.100.1 with 32 bytes of data:

Reply from 192.168.100.1: bytes=32 time<1ms TTL=255
Reply from 192.168.100.1: bytes=32 time<1ms TTL=255
Reply from 192.168.100.1: bytes=32 time<1ms TTL=255
Reply from 192.168.100.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.100.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PC 2

```
C:\>ping 192.168.150.2

Pinging 192.168.150.2 with 32 bytes of data:

Reply from 192.168.150.2: bytes=32 time<1ms TTL=128
Reply from 192.168.150.2: bytes=32 time=4ms TTL=128
Reply from 192.168.150.2: bytes=32 time=3ms TTL=128
Reply from 192.168.150.2: bytes=32 time=3ms 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 = 0ms, Maximum = 4ms, Average = 2ms

C:\>ping 192.168.150.2

Pinging 192.168.150.2 with 32 bytes of data:

Reply from 192.168.150.2: bytes=32 time<1ms TTL=128
Reply from 192.168.150.2: bytes=32 time=5ms TTL=128
Reply from 192.168.150.2: bytes=32 time=4ms TTL=128
Reply from 192.168.150.2: bytes=32 time=4ms 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 = 0ms, Maximum = 5ms, Average = 3ms

C:\>
```

Analisi Percobaan :

Jadi untuk melakukan Tes koneksi antar PC maka pada saat melakukan settingan IP configuration pada setiap PC maka tambahkan default gateaway-nya sesuai dengan IP yang telah kita buat di dalam CLI pada router yang berguna untuk memastikan bahwa PC bisa berkomunikasi dengan jaringan lain di luar subnet lokal, melalu router yang sudah dikonfigurasi.

Kesimpulan Percobaan :

Tes koneksi antar tiga PC menunjukkan bahwa setiap PC dapat berkomunikasi dengan baik dalam VLAN yang sama. Penambahan default gateway pada konfigurasi IP setiap PC terbukti penting untuk memungkinkan komunikasi di luar subnet lokal melalui router yang sudah dikonfigurasi. Secara keseluruhan, konfigurasi VLAN dan default gateway berfungsi dengan baik, mendukung komunikasi di dalam dan di luar subnet VLAN.