

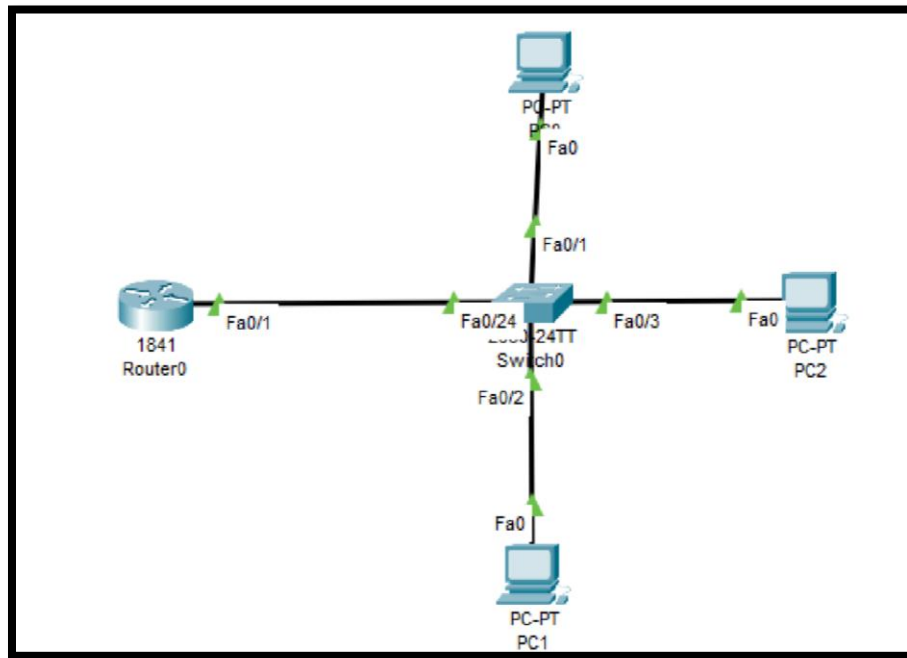
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TUGAS VLAN

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, Fa0/19 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 | |

HASIL PERCOBAAN

| 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 | 1000001 | 1500 | - | - | - | - | - | 0 | 0 |
| 2 | enet | 1000002 | 1500 | - | - | - | - | - | 0 | 0 |

--More-- |

| No | Nama Device | Alamat | Netmask |
|----|-------------|---------------|---------------|
| 1 | PC1 | 192.168.100.2 | 255.255.255.0 |
| 2 | PC2 | 192.168.200.2 | 255.255.255.0 |
| 3 | PC3 | 192.168.150.2 | 255.255.255.0 |

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.200.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.200.1

DNS Server: 0.0.0.0

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.100.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.100.1

DNS Server: 0.0.0.0

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.150.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.150.1

DNS Server: 0.0.0.0

HASIL PERCOBAAN

| No | Sumber | Tujuan | Hasil | |
|----|--------|--------|-------|-------|
| | | | Ya | Tidak |
| 1 | PC 1 | PC 2 | Ya | |
| | | PC 3 | Ya | |
| 2 | PC 2 | PC 1 | Ya | |
| | | PC 3 | Ya | |
| 3 | PC 3 | PC 1 | Ya | |
| | | PC 2 | Ya | |

PC 1

```
C:\>ping 192.168.100.2

Pinging 192.168.100.2 with 32 bytes of data:

Reply from 192.168.100.2: bytes=32 time<1ms TTL=127
Reply from 192.168.100.2: bytes=32 time=12ms TTL=127
Reply from 192.168.100.2: bytes=32 time=13ms TTL=127
Reply from 192.168.100.2: bytes=32 time=14ms TTL=127

Ping statistics for 192.168.100.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 14ms, Average = 9ms

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=127
Reply from 192.168.150.2: bytes=32 time=12ms TTL=127
Reply from 192.168.150.2: bytes=32 time=12ms TTL=127
Reply from 192.168.150.2: bytes=32 time=12ms TTL=127

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 = 9ms
```

PC 2

```
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=12ms TTL=127
Reply from 192.168.200.2: bytes=32 time=12ms TTL=127
Reply from 192.168.200.2: bytes=32 time=12ms 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 = 12ms, Average = 9ms

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=127
Reply from 192.168.150.2: bytes=32 time=11ms TTL=127
Reply from 192.168.150.2: bytes=32 time=12ms TTL=127
Reply from 192.168.150.2: bytes=32 time=11ms TTL=127

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 = 12ms, Average = 8ms
```

PC 3

```
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=12ms TTL=127
Reply from 192.168.200.2: bytes=32 time<1ms TTL=127
Reply from 192.168.200.2: bytes=32 time=13ms 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 = 13ms, Average = 6ms

C:\>ping 192.168.100.2

Pinging 192.168.100.2 with 32 bytes of data:

Reply from 192.168.100.2: bytes=32 time<1ms TTL=127
Reply from 192.168.100.2: bytes=32 time<1ms TTL=127
Reply from 192.168.100.2: bytes=32 time=12ms TTL=127
Reply from 192.168.100.2: bytes=32 time=11ms TTL=127

Ping statistics for 192.168.100.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 5ms
```

Analisi Percobaan :

Jadi untuk melakukan Tes koneksi antar PC maka pada saat melakukan settingan IP configuration pada setiap PC maka tambahkan default gateway-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, melalui 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.