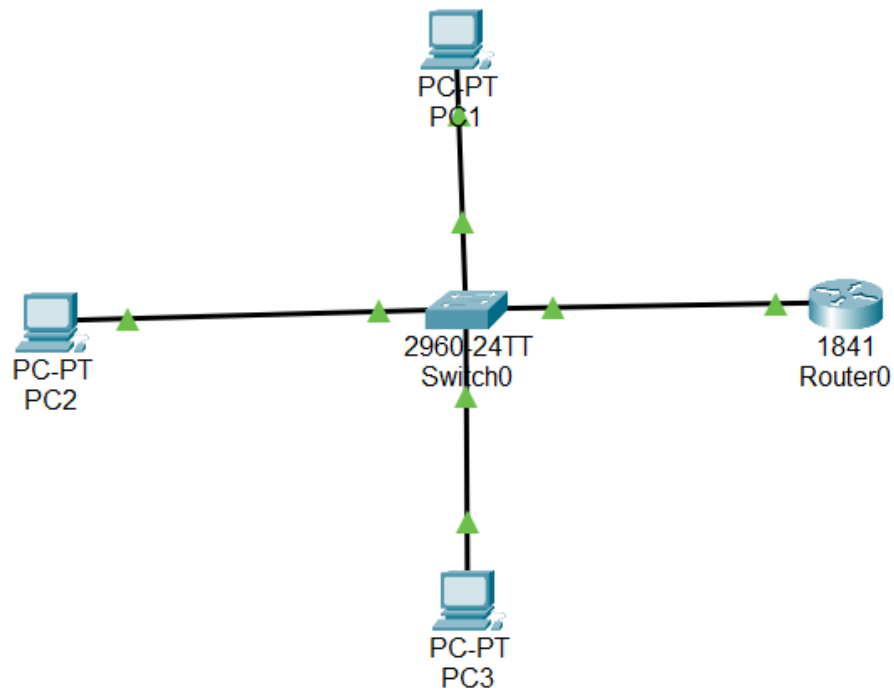


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Kelas : MI3A

Jarkom Vlan dan Inter-Vlan



Melihat Daftar Vlan

Tulis hasil yang anda dapat

```
SWITCH_09010182327008#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 | Type | SAID | MTU | Parent | RingNo | BridgeNo | Stp | BrdgMode | Trans1 | Trans2 |
|------|------|--------|------|--------|--------|----------|-----|----------|--------|--------|
| 1 | enet | 100001 | 1500 | - | - | - | - | - | 0 | 0 |
| 2 | enet | 100002 | 1500 | - | - | - | - | - | 0 | 0 |

| 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 | - |

Tes Koneksi dengan menggunakan ICMP (catat hasil yang anda dapat)

PC1

Physical Config **Desktop** Programming Attributes

IP Configuration
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
IPv6 Configuration
☐ Automatic ☒ Static
IPv6 Address
Link Local Address FE80::2D0:58FF:F
Default Gateway
DNS Server

PC2

Physical Config **Desktop** Programming Attributes

IP Configuration
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
IPv6 Configuration
☐ Automatic ☒ Static
IPv6 Address
Link Local Address FE80::250:FFF:FEEB:7093
Default Gateway
DNS Server

PC3

Physical Config **Desktop** Programming Attributes

IP Configuration
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
IPv6 Configuration
☐ Automatic ☒ Static
IPv6 Address
Link Local Address FE80::2E0:F9FF:FE2E:8640

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

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

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

PC1

```
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<1ms TTL=127
Reply from 192.168.100.2: bytes=32 time<1ms 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 = 0ms, Average = 0ms

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<1ms TTL=127
Reply from 192.168.150.2: bytes=32 time=16ms TTL=127
Reply from 192.168.150.2: bytes=32 time<1ms 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 = 16ms, Average = 4ms
```

P2

```
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 = 1ms, Average = 0ms

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=3ms TTL=128
Reply from 192.168.150.2: bytes=32 time=10ms TTL=128
Reply from 192.168.150.2: bytes=32 time=7ms TTL=128
Reply from 192.168.150.2: bytes=32 time=8ms 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 = 3ms, Maximum = 10ms, Average = 7ms
```

PC 3

```
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 = 1ms, Average = 0ms

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=18ms TTL=128
Reply from 192.168.100.2: bytes=32 time=7ms TTL=128
Reply from 192.168.100.2: bytes=32 time=8ms TTL=128
Reply from 192.168.100.2: bytes=32 time=8ms TTL=128

Ping statistics for 192.168.100.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 7ms, Maximum = 18ms, Average = 10ms
```

Hasil Percobaan :

untuk melakukan koneksi antar PC, pada saat melakukan settingan IP pada setiap PC maka harus ditambahkan default gateway-nya sesuai dengan IP yang telah kita atur di dalam CLI. Default gateway pada router ini berguna agar PC bisa berkomunikasi dengan jaringan lain di luar subnet lokal.

Kesimpulan Percobaan :

Pengujian koneksi ke tiga PC ini 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.