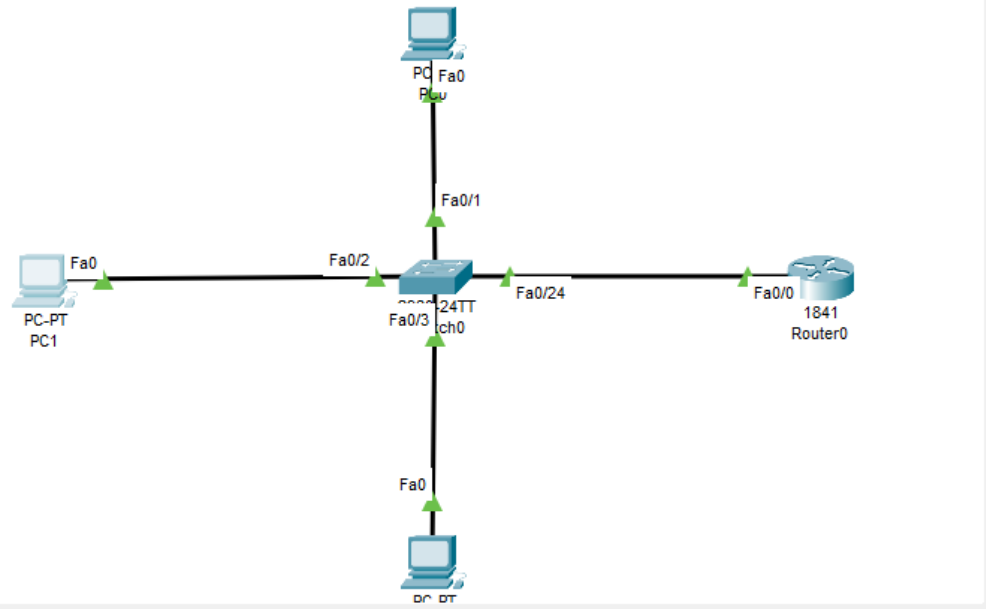


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 NIM : 09010182327001  
 KELAS : MI3A  
 MATKUL : PRAKTIKUM JARINGAN KOMPUTER

1. Buat Topologi Seperti Gambar diatas



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
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--

2. Buat Pengalamatan di PC

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

3. Selanjutnya kita aktifkan power switch tunggu beberapa menit switch akan booting
4. Setelah selesai switch loading sekarang kita lanjut konfigurasi switch  
Tulis hasil yang anda dapat

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	
1002	Fddi-default	active	
1003	Token-ring-default	active	
1004	Fddinet-default	active	
1005	Trnet-default	active	

##### 5. Konfigurasi Router

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

NO	SUMBER	TUJUAN	HASIL	
			YA	TIDAK
1	PC1	PC2	YA	-
		PC3	YA	-
2	PC2	PC1	YA	-
		PC3	YA	-
3	PC3	PC1	YA	-
		PC2	YA	-

Pc0

```
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 192.168.200.1: Destination host unreachable.
Reply from 192.168.200.1: Destination host unreachable.
Reply from 192.168.200.1: Destination host unreachable.
Reply from 192.168.200.1: Destination host unreachable.

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

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
```

Analisis:

1. Konfigurasi VLAN:

Terdapat beberapa VLAN yang telah diatur, di antaranya:

- VLAN 1 (Default) aktif dengan port FastEthernet (Fa0/4 hingga Fa0/23) serta GigabitEthernet (Gig0/1 dan Gig0/2) terhubung.
- 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 seperti Fddi-default, Token-ring-default, Fddinet-default, dan Trnet-default juga aktif.

2. Pengujian Konektivitas:

- Pengujian terhadap perangkat menunjukkan bahwa perangkat dalam VLAN yang sama dapat saling berkomunikasi dengan baik.
- Sebagai contoh, PC1 bisa berinteraksi dengan PC2 dan PC3, begitu pula sebaliknya, sesuai pengaturan VLAN yang diterapkan.

Kesimpulan:

Pengujian ini berhasil membuktikan bahwa konfigurasi VLAN berjalan sesuai dengan harapan. Pemisahan segmen jaringan berdasarkan VLAN efektif untuk memfasilitasi komunikasi antar-perangkat di VLAN yang sama, menunjukkan isolasi jaringan yang tepat sesuai konfigurasi.