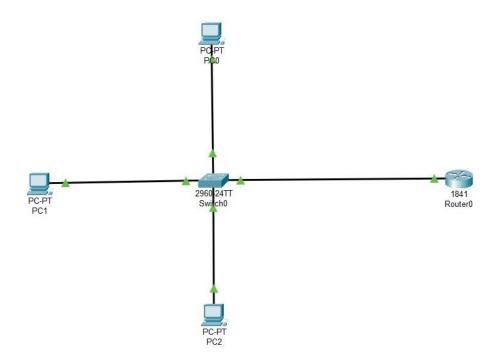
NAMA : AULIA ZAHRA EVRIYANTI

NIM : 09010182327009

MK : JARKOM



VLAN	Name				Sta	tus Po	Ports			
1	default				act.	ive Fa	0/4,	Fa0/5, Fa	0/6, Fa	0/7
						Fa	Fa0/8, Fa0/9, Fa0/10, Fa0/11			
						Fa	0/12,	Fa0/13,	Fa0/14,	Fa0/15
					Fa	0/16,	Fa0/17,	Fa0/18,	Fa0/19	
					Fa	0/20,	Fa0/21,	Fa0/22,	Fa0/23	
						Fa	0/24,	Gig0/1,	Gig0/2	
2	humas				act.	ive Fa	0/1			
	keuangan			act.	ive Fa	Fa0/2				
4	IT			act.	ive Fa	Fa0/3				
5	pimpinan			act.	ive					
1002	fddi-default				act.	ive	<u> </u>			
1003	token-ring-default				act.	active				
1004	fddinet-default activ					ive				
1005	trnet-default active									
VLAN	Туре	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Transl	Trans2
1	enet	100001	1500	1 <del>7</del> 4		( <del>-</del> )		1 <del>7</del> 4	0	0
2	enet	100002	1500	( <del>-</del> -)	-	5 <del>11</del> 65	-	-	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, Fa0/21,
			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	

			H ısil		
No	Sumber	Tujuan	Ya	Tidak	
1	PC 1	PC 2	Ya		
1		PC 3	Ya		
2	DC 2	PC 1	Ya		
2	PC 2	PC 3	Ya		
3	PC 3	PC 1	Ya		
3	PC 3	PC 2	Ya		

PC 1 PC 2

```
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<lms 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<lms 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
```

```
Cisco Packet Tracer PC Command Line 1.0

C:\>ping 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<\ms 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: 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=1ms TTL=128

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=6ms 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 with 32 bytes of data:
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=16ms TTL=128
Reply from 192.168.100.2: bytes=32 time=8ms TTL=128
Reply from 192.168.100.3: bytes=32 time=10ms TTL=128
Reply from 192.168.100.3: bytes=32 time=10ms
```

## Analisis Percobaan:

Router on a Stick adalah teknik yang efisien untuk menghubungkan berbagai VLAN dengan memanfaatkan satu tautan fisik antara router dan switch. Dalam konfigurasi ini, router menggunakan sub-interface untuk setiap VLAN, di mana setiap sub-interface memiliki alamat IP yang sesuai dengan subnet VLAN tersebut. Dengan cara ini, router dapat membedakan lalu lintas dari masing-masing VLAN berdasarkan tag VLAN yang diterima pada tautan trunk.

## Kesimpulannya:

Dengan menerapkan metode router on a stick, kita dapat memahami bagaimana router berfungsi sebagai penghubung antar VLAN yang berbeda. Solusi ini sangat efektif untuk jaringan kecil hingga menengah, tetapi untuk jaringan yang lebih besar dan kompleks, metode lain mungkin diperlukan untuk memastikan efisiensi dan manajemen yang lebih baik. Router on a stick memberikan cara sederhana namun efektif untuk melakukan inter-VLAN routing dengan meminimalkan kebutuhan akan banyak interface fisik pada router.