COMPUTER NETWORK PRACTICUM 4



By:

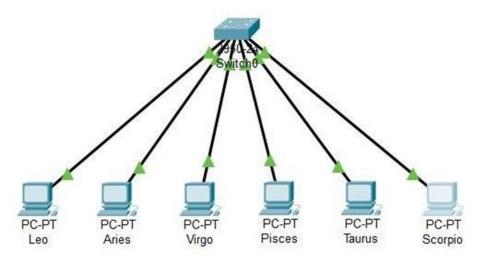
MUHAMMAD IRFAN

NIM: L200184165

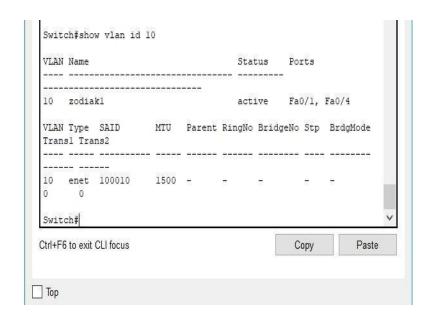
INFORMATION TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATICS UNIVERSITY OF MUHAMMADIYAH SURAKARTA 2020

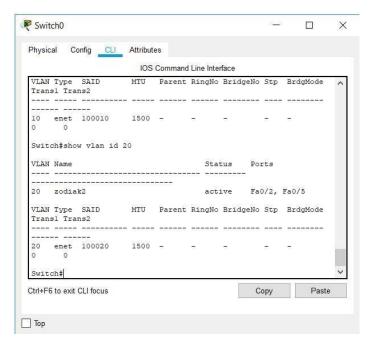
1. Activity 1



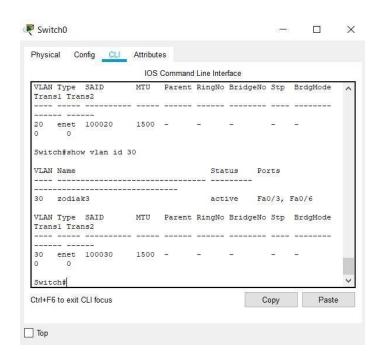
Picture 1.1. Set of computer network



Picture 1.2. Configuration information of VLAN 10



Picture 1.3. Configuration information of VLAN 20



Picture 1.4. Configuration information of VLAN 30

Tugas 6A:

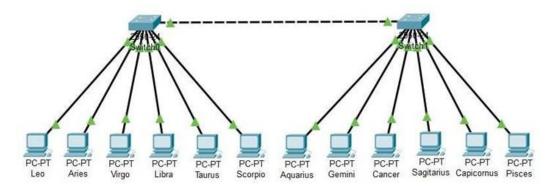
No	Variabel		Nilai	
INO	variabei	vlan id 10	vlan id 20	vlan id 30
1	Nomor VLAN	10	20	30
2	Nama VLAN	zodiak1	zodiak2	zodiak3
3	Port	Fa0/1, Fa0/4	Fa0/2, Fa05	Fa0/3, Fa0/6
4	Status	active	active	Active

Tugas 6B:

Answers:

- In VLAN number 10 (zodiak1) there are 2 ports that have been configured, namely Fa0/1 and Fa0/4
- In VLAN number 20 (zodiak2) there are 2 ports that have been configured, namely Fa0/2 and Fa0/5
- In VLAN number 30 (zodiak3) there are 2 ports that have been configured, namely Fa0/3 and Fa0/6

2. Activity 2



Picture 2.1. Set of computer network

VLAN	Name				Sta	tus P	Ports					
1.	default				act	ive F	Fa0/6, Fa0/7, Fa0/8, Fa0/9					
						F	a0/10,	Fa0/11,	Fa0/12,	Fa0/13		
						F	a0/14,	Fa0/15,	Fa0/16,	Fa0/17		
						F	a0/18,	Fa0/19,	Fa0/20,	Fa0/21		
						F	a0/22,	Fa0/23,	Fa0/24			
10	zodia	zodiakl				ive F						
20.	zodiak2				act	ive F	Fa0/2					
30	zodiak3				act:	ive F	Fa0/3, Fa0/5					
1002	fddi-default				act	ive						
1003	token-ring-default				act	ive	è					
1004	fddinet-default				act	active						
1005	trnet-default				act	active						
VLAN	Туре	SAID	MTU	Parent	RingNo	BridgeN	o Stp	BrdgMode	Transl	Trans2		
1	enet	100001	1500		_	_			.0	.0		
10					-		-	-	ő	0		
		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1500	2	2	- 2	2		:0	0		
30	enet	100030	1500	_	_	_			0	0		

Picture 2.2. Result of show vlan command

Tugas 7A:

Answers:

- In VLAN number 10 (zodiak1) there are 2 ports that have been configured, namely Fa0/1 and Fa0/4
- 2) In VLAN number 20 (zodiak2) there are 2 ports that have been configured, namely Fa0/2 and Fa0/5
- 3) In VLAN number 30 (zodiak3) there are 2 ports that have been configured, namely Fa0/3 and Fa0/6
- 4) Fa0/24 is configured in VLAN Trunking

```
Physical Comfig Desktop Programming Attributes

Command Prompt

X

Pinging 172.21.3.4 with 32 bytes of data:
Request timed out.
Request simed out.
Request simed out.
Request timed out.
```

Picture 2.3. Pingin from PC Leo to PC Pisces

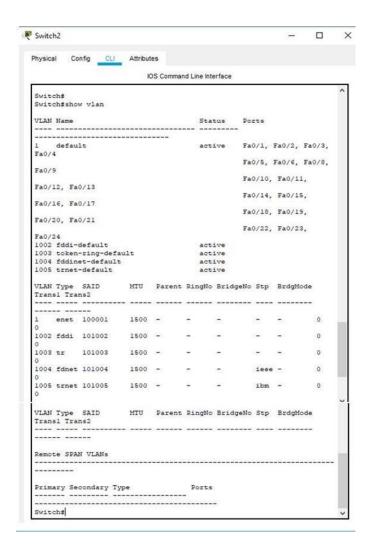
Tugas 8A:

Answers:

Because the configuration of the IP address on PC Leo and PC Pisces is different



Picture 2.4. VLAN Trunking configuration for Switch 2

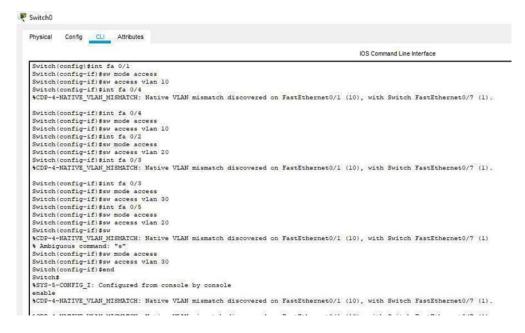


Picture 2.5. Result of Show vlan command

Tugas 10A:

Answer:

It can be concluded that the trunking configuration has been done and the switch shows that the trunking configuration is running



Picture 2.6. Port switch configuration into the VLAN

Pinging Test

Pc leo ke aries

```
Physical Config Constitute Programming Attractes

Command Primpt

Decrete Tracer PC Command Line 1.0
C(\Pinging 172.21.3.4 with 32 bytes of data:

Bequest timed out.

Bequest timed out.

Bequest timed out.

Bequest timed out.

Ping statistics for 172.21.3.4:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C(\Pinging 172.21.1.2

Pinging 172.21.1.2 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 172.21.1.2:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Pinging 172.21.1.3

Pinging 172.21.1.3 bytes=0 time=li@ms TTL=128

Reply from 172.21.1.3 bytes=0 time=li@ms TTL=128

Reply from 172.21.1.3 bytes=0 time=lims TTL=128

Reply from 172.21.1.3: bytes=0 time=lims TTL=128

Reply from 172.21.1.3: bytes=0 time=lims TTL=128

Pinging statistics for 172.21.1.3: bytes=0 time=lims TTL=128

Pinging ing 172.21.1.3: bytes=0 time=lims TTL=128

Pinging statistics for 172.21.1.3: bytes=0 time=lims TTL=128

Pinging ing 172.
```

Pc leo ke pisces

```
C:\>ping 172.21.3.4

Pinging 172.21.3.4 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 172.21.3.4:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

Pc Libra ke cancer

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.2.3

Pinging 172.21.2.3 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 172.21.2.3:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

Pc Libra ke leo

```
C:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Reply from 172.21.1.1: bytes=32 time=lms TTL=128

Reply from 172.21.1.1: bytes=32 time<lms TTL=128

Reply from 172.21.1.1: bytes=32 time<lms TTL=128

Reply from 172.21.1.1: bytes=32 time<lms TTL=128

Ping statistics for 172.21.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

Tugas 12A:

Answer:

can be concluded if the PC is on the same VLAN, it will result in Reply status. However, being on a different VLAN will result in Request Time Out status