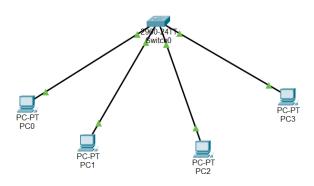
Nama: Fahdel Shaibari

NIM : 09010182327008

Kelas : MI3A

## **LAPORAN PRAKITIKUM JARKOM**

## Switch

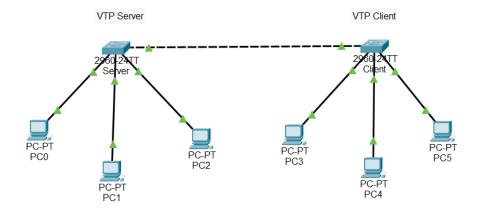


## Hasil:

09010182327008>show vlan

1 default active Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/10, Fa0/11, Fa0/12 Fa0/13, Fa0/14, Fa0/15, Fa0/1 Fa0/17, Fa0/18, Fa0/19, Fa0/2 Fa0/21, Fa0/22, Fa0/23, Fa0/2 Gig0/1, Gig0/2	6
2 humas active Fa0/1	
3 keuangan active Fa0/2	
4 IT active Fa0/3	
5 pimpinan active Fa0/4	
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 Trans	2
1 enet 100001 1500 0 0	_
2 enet 100002 1500 0 0	
More	

#### VTP Server dan VT



#### Hasil server:

09010182327008-VTP\_SERVER#show vtp status VTP Version capable : 1 to 2 VTP version running : 2

VTP Domain Name : jarkom.ilkom.unsri.ac.id

VTP Pruning Mode : Disabled
VTP Traps Generation : Disabled
Device ID : 000C.85B9.3A00

Configuration last modified by 0.0.0.0 at 3-1-93 00:30:41 Local updater ID is 0.0.0.0 (no valid interface found)

Feature VLAN :

VTP Operating Mode : Server Maximum VLANs supported locally : 255 Number of existing VLANs : 8 Configuration Revision : 7

MD5 digest : 0xEA 0xA6 0x77 0xCE 0x54 0x1E 0xF8 0xB0 0xA8 0x9A 0x38 0x7F 0x50 0xFF 0x1F 0xD1

09010182327008-VTP\_SERVER#show interface trunk

Port Mode Encapsulation Status Native vlan

Fa0/24 on 802.1q trunking 1

Port Vlans allowed on trunk

Fa0/24 1-1005

Port Vlans allowed and active in management domain

Fa0/24 1,2,3,4

Port Vlans in spanning tree forwarding state and not pruned

Fa0/24 1,2,3,4

09010182327008-VTP SERVER#

#### Hasil Client

09010182327008-VTP\_CLIENT#show vtp status VTP Version capable : 1 to 2
VTP version running : 2

VTP version running

: jarkom.ilkom.unsri.ac.id
: Disabled

VTP Domain Name VTP Pruning Mode VTP Fruning Mode
VTP Traps Generation : Disabled Device ID : 0001.634E.9900

Configuration last modified by 0.0.0.0 at 3-1-93 00:30:41

Feature VLAN :

: Client : 255 VTP Operating Mode Maximum VLANs supported locally Number of existing VLANs Configuration Revision : 7

: 0xEA 0xA6 0x77 0xCE 0x54 0x1E 0xF8 0xB0 MD5 digest 0xA8 0x9A 0x38 0x7F 0x50 0xFF 0x1F 0xD1

09010182327008-VTP\_CLIENT#show interface trunk

Port Mode Encapsulation Status Native vlan Fa0/24 on 802.1q trunking 1

Vlans allowed on trunk Port.

Fa0/24 1-1005

Vlans allowed and active in management domain Port

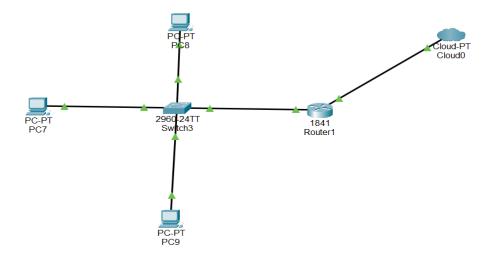
Fa0/24 1,2,3,4

Port Vlans in spanning tree forwarding state and not pruned

Fa0/24 1,2,3,4

09010182327008-VTP\_CLIENT#0

#### NAT



#### Switch Configuration

```
SWITCH>enable
SWITCH#configure terminal
Enter configuration commands, one per line. End with CNTL/Z. SWITCH(config) #Hostname Switch_Distribusi
Switch_Distribusi(config) #banner motd #Selamat Datang di Switch Distribusi#
Switch_Distribusi(config)#line console 0
Switch_Distribusi(config-line)#password cisco
Switch_Distribusi(config-line)#login
Switch_Distribusi(config-line)#exit
Switch_Distribusi(config) #line vty 0 4
Switch_Distribusi(config-line) #password cisco
Switch_Distribusi(config-line) #login
Switch_Distribusi(config-line)#exit
Switch_Distribusi(config) #enable password cisco
Switch_Distribusi(config) #enable secret cisco
The enable secret you have chosen is the same as your enable password. This is not recommended. Re-enter the enable secret.
Switch_Distribusi(config) #Vlan 2
Switch_Distribusi(config-vlan) #Name Humas
Switch_Distribusi(config-vlan)#exit
Switch_Distribusi(config) #vlan 3
Switch_Distribusi(config-vlan) #name keuangan
Switch_Distribusi(config-vlan) #exitr
% Invalid input detected at '^' marker.
Switch_Distribusi(config-vlan)#exit
Switch_Distribusi(config) #vlan 4
Switch_Distribusi(config-vlan) #name it
Switch_Distribusi(config-vlan) #exit
Switch_Distribusi(config-vlan) #exit
Switch_Distribusi(config-if) #switchport mode access
Switch_Distribusi(config-if) #switchport access vlan 2
Switch_Distribusi(config-if)#exit
Switch_Distribusi(config) #interface fastEthernet 0/2
Switch_Distribusi(config-if) #switchport mode access
Switch_Distribusi(config-if) #switchport access vlan 3
Switch_Distribusi(config-if)#exit
Switch_Distribusi(config)#interface fastEthernet 0/3
Switch_Distribusi(config-if) #switchport mode access
Switch_Distribusi(config-if) #switchport access vlan 4
Switch_Distribusi(config-if)#exit
Switch_Distribusi(config) #interface fastEthernet 0/24
Switch_Distribusi(config-if) #switchport mode trunk
Switch_Distribusi(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to up
Switch_Distribusi(config-if)#exit
Switch_Distribusi(config) #exit
Switch_Distribusi#
%SYS-5-CONFIG I: Configured from console by console
```

## Hasil:

Switch\_Distribusi#copy run start
Destination filename [startup-config]? show vlan
%Error copying nvram:show vlan (Invalid argument)
Switch\_Distribusi#show vlan

VLAN	Name				:	Status	Po	rts			
1	defau	lt			;	active	Fa Fa Fa Fa	0/8, 0/12, 0/16, 0/20,	Fa0/5, Fa0/5, Fa0/9, Fa0/13, 1 Fa0/17, 1 Fa0/21, 1 Gig0/2	0/10, Fa Fa0/14, Fa0/18,	a0/11 Fa0/15 Fa0/19
2	Humas				i	active		0/1	0190/2		
3	keuan	gan			ě	active	Fa	0/2			
4	it	_			ě	active	Fa	0/3			
1002	fddi-	default			ě	active					
		-ring-de				active					
		et-defau	lt			active					
1005	trnet	-default			ě	active					
VLAN	Туре	SAID	MTU	Parent	Ring	gNo Brid	geNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500		_				_	0	0
2	enet	100002	1500	_	_	_		_	_	0	0
3	enet	100003	1500	_	_	_		_	_	0	0
M	More										
	VLAN		Na	ıma		Sta	tus		Po	ort	
Vlan 1		Def	fault		Act	tive		Fa0/4 -	Fa0/23,		

VLAN	Nama	Status	Port
Vlan 1	Default	Active	Fa0/4 - Fa0/23,
			Gig0/1, Gig0/2
Vlan 2	Humas	Active	Fa0/1
Vlan 3	Keuangan	Active	Fa0/2
Vlan 4	IT	Active	Fa0/3

#### • Router Configuration

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #hostname Router I
Router I (config) #banner motd #Selamat Datang di Router I#
Router I(config)#line console 0
Router_I(config-line) #password cisco
Router_I(config-line) #login
Router_I(config-line) #exit
Router I(config) #enable password cisco
Router I(config) #enable secret cisco
The enable secret you have chosen is the same as your enable password.
This is not recommended. Re-enter the enable secret.
Router_I(config) #line vty 0 4
Router I (config-line) #password cisco
Router_I(config-line) #login
Router_I(config-line)#exit
Router I(config) #interface fastEthernet 0/0
Router_I(config-if) #ip address 10.100.112.10 255.255.255.0
Router I(config-if) #ip nat inside
Router_I(config-if) #no shutdown
Router_I(config-if)#exit
Router_I(config)#interface fastEthernet 0/1
Router_I(config-if)#no ip address
Router_I(config-if) #no shutdown
Router I(config-if)#exit
Router_I(config) #interface fastEthernet 0/1.1
Router_I(config-subif) #encapsulation dot10 2
Router_I(config-subif) #ip address 192.168.200.1 255.255.255.0
Router_I(config-subif) #ip nat outside
Router I (config-subif) #exit
Router_I(config) #interface fastEthernet 0/1.2
Router_I(config-subif) #ip address 192.168.100.1 255.255.255.0
% Configuring IP routing on a LAN subinterface is only allowed if that
subinterface is already configured as part of an IEEE 802.10, IEEE 802.1Q,
or ISL vLAN.
Router_I(config-subif) #encapsulation dot1Q 3
Router_I(config-subif) #ip nat outside
Router I (config-subif) #exit
Router_I(config) #interface fastEthernet 0/1.3
Router_I(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/1.3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.3, changed state to up
Router I(config-subif)#
Router_I(config-subif)#encapsulation dot1Q 4
Router_I(config-subif) #ip address 192.168.150.1 255.255.255.0
Router I (config-subif) #ip nat outside
Router_I(config-subif) #exit
```

```
Router I(config) #ip dhcp excluded 192.168.200.2 192.168.200.20
Router_I(config) #ip dhcp pool 192.168.100.0/24
Router_I(dhcp-config) #network 192.168.100.0 255.255.255.0
Router_I (dhcp-config) #default-router 192.168.100.1
Router_I(dhcp-config) #dns-server 222.124.194.11
Router_I (dhcp-config) #end
Router_I#
%SYS-5-CONFIG I: Configured from console by console
Router_I#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router I (config) #ip dhcp excluded 192.168.150.2 192.168.150.20
Router_I(config) #ip dhcp 192.168.150.0/24
% Invalid input detected at '^' marker.
Router I(config) #ip dhcp pool 192.168.150.0/24
Router_I(dhcp-config) #network 192.168.150.0 255.255.255.0
Router_I(dhcp-config) #default-router 192.168.150.1
Router_I(dhcp-config) #dns-server 222.124.194.11
Router_I (dhcp-config) #exit
Router_I(config) #exit
Router I#
Router I#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router_I(config) # nat pool konek 10.100.121.10 10.100.121.10 netmask 255.255.255.0
% Invalid input detected at '^' marker.
Router_I(config) #nat pool konek 10.100.121.10 10.100.121.10 netmask 255.255.255.0
% Invalid input detected at '^' marker.
Router I(config) #ip nat pool konek 10.100.121.10 10.100.121.10 netmask 255.255.255.0
Router_I(config) #access-list 99 permit 192.168.200.0 0.0.0.255
Router_I(config) #access-list 99 permit 192.168.100.0 0.0.0.255
Router_I(config) #access-list 99 permit 192.168.150.0 0.0.0.255
Router I(config) #ip nat inside source list 99 pool konek overload
Router_I(config) #ip router 0.0.0.0 0.0.0.0 10.100.121.1
% Invalid input detected at '^' marker.
Router_I(config) #IP router 0.0.0.0 0.0.0.0 10.100.121.1
% Invalid input detected at '^' marker.
Router_I(config) #IP route 0.0.0.0 0.0.0.0 10.100.121.1
Router_I(config) #name-server 222.124.194.11
% Invalid input detected at '^' marker.
Router_I(config)#ip name-server 222.124.194.11
Router_I(config) #ip name-server 222.124.194.18
Router_I(config) #ip domain-name unsri.ac.id
Router_I(config) #exit
Router_I#
%SYS-5-CONFIG I: Configured from console by console
Router I#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
Router I#
```

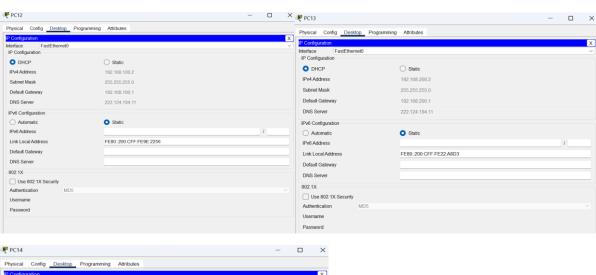
#### Hasil

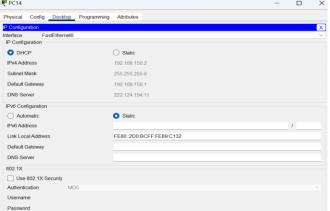
Router_I>sh ip	dhcp binding		
IP address	Client-ID/	Lease expiration	Туре
	Hardware address		
192.168.200.2	0000.0C22.A8D3		Automatic
192.168.100.2	0000.0C9E.2256		Automatic
192.168.150.2	00D0.BC89.C132		Automatic
Router T>			

No	Ip Address	MAC Address	Lease Expiration	Type
1	192.168.200.2	0000.0C22.A8D3	•	Automatic
2	192.168.100.2	0000.0C9E.2256	-	Automatic
3	192.168.150.2	00D0.BC89.C132	-	Automatic

## **Daftar IP Client**

No	Client	Ip address	Netmask	Gateway	DNS
1	PC12	192.168.100.2	255.255.255.0	192.168.100.1	222.124.194.11
2	PC13	192.168.200.2	255.255.255.0	192.168.200.1	222.124.194.11
3	PC14	192.168.150.2	255.255.255.0	198.168.150.1	222.124.194.11





# Tes Koneksi Ke sebuah website (catat hasil yang anda dapat)

No	Sumber	Ip address	Hasil	Website	Hasil
			Ya/Tidak		Ya/Tidak
1	PC12	192.168.100.2	Ya	www.google.com	Tidak
2	PC13	192.168.200.2	Ya	www.google.com	Tidak
3	PC14	192.168.150.2	Ya	www.google.com	Tidak