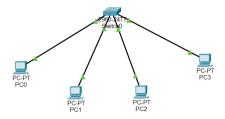
Nama : DERI ANDIKO

NIM : 09010182327032

Kelas : MI 3A

LAPORAN PRAKTIKUM JARKOM

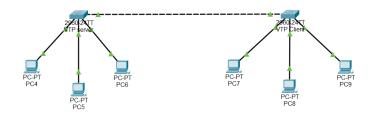
• Switch



Hasil:

SWITCH#show vlan											
VLAN Name				Stat	tus	Ports					
1	default			act:		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 Gig0/1, Gig0/2					
2	humas			act:	ive	Fa0/1					
3	Keuangan				act:	ive	Fa0/2				
4	IT				act:	ive	Fa0/3				
5	Pimpinan				act:	ive	Fa0/4				
1002	fddi-default				act:	active					
1003	token-ring-default				act:	active					
1004	fddinet-default				act:	active					
1005	trnet-default active										
VLAN	Туре	SAID	MTU	Parent	RingNo	Bridge	No Stp	BrdgMode	Trans1	Trans2	
1	enet	100001	1500	_	_	_	_	_	0	0	
2	enet	100002	1500	_	_	_	_	_	0	0	
Mc	More										

• VTP Server dan VTP client



- Server

```
Switch>enable
                             Switch#configure terminal
                            Enter configuration commands, one per line. End with CNTL/Z. Switch(config) #hostname "VTP Server"
                             % Spaces are not allowed in hostname
                             Switch (config) #
                            Switch(config) #hostname Swithc_VTP_Server
Swithc_VTP_Server(config) #Hostname 09010282327037-VTP_Server
                          Swithc_VTP_Server(config) #Hostname 09010282327037-VTP_Server 09010282327037-VTP_Server (config) #banner motd #S-VTP-SERVER# 09010282327037-VTP_Server(config) #line console 0 09010282327037-VTP_Server(config-line) #password cisco 09010282327037-VTP_Server(config-line) #login 09010282327037-VTP_Server(config-line) #exit 09010282327037-VTP_Server(config) #line vty 0 4 09010282327037-VTP_Server(config-line) #password cisco 09010282327037-VTP_Server(config-line) #login 09010282327037-VTP_Server(config-line) #login 09010282327037-VTP_Server(config-line) #exit 09010282327037-VTP_Server(config-line) #exit 09010282327037-VTP_Server(config-line) #sound cisco 09010282327037-VTP_Server(config-line) #login 09010282327037-VTP_Server(config-line) #sound cisco 09010282327037-VTP_Server(config-line) #so
                             The enable secret you have chosen is the same as your enable password.
                           This is not recommended. Re-enter the enable secret. 09010282327037-VTP_Server(config)#vlan 2 09010282327037-VTP_Server(config-vlan)#name Humas 09010282327037-VTP_Server(config-vlan)#exit
                           09010282327037-VTP_Server(config-vlan) #exit
09010282327037-VTP_Server(config-vlan) #name Keuangan
09010282327037-VTP_Server(config-vlan) #name Keuangan
09010282327037-VTP_Server(config-vlan) #exit
09010282327037-VTP_Server(config-vlan) #name IT
09010282327037-VTP_Server(config-vlan) #exit
09010282327037-VTP_Server(config-vlan) #exit
09010282327037-VTP_Server(config-vlan) #exit
09010282327037-VTP_Server(config) #interface fastEthernet 0/1
09010282327037-VTP_Server(config-if) #switchport mode access
09010282327037-VTP_Server(config-if) #switchport access vlan 2
09010282327037-VTP_Server(config-if) #exit
09010282327037-VTP_Server(config-if) #switchport mode access
09010282327037-VTP_Server(config-if) #switchport mode access
09010282327037-VTP_Server(config-if) #switchport access vlan 3
09010282327037-VTP_Server(config-if) #switchport access vlan 3
09010282327037-VTP_Server(config-if) #switchport mode access
09010282327037-VTP_Server(config-if) #switchport mode access
09010282327037-VTP_Server(config-if) #switchport mode access
09010282327037-VTP_Server(config-if) #switchport access vlan 4
09010282327037-VTP_Server(config-if) #exit
09010282327037-VTP_Server(config) #vtp version 2
09010282327037-VTP_Server(config) #vtp mode server
Device mode already VTP SERVER.
09010282327037-VTP_Server(config) #vtp domain jarkom.ilkom.unsri.ac.id
09010282327037-VTP_Server(config) #vtp domain jarkom.ilkom.unsri.ac.id
   O9010282327037-VTP_Server(config)#vtp password jarkom
Setting device VLAN database password to jarkom
09010282327037-VTP_Server(config)#interface fastEthernet 0/24
09010282327037-VTP_Server(config-if)#switchport mode trunk
    09010282327037-VTP_Server(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
    09010282327037-VTP_Server(config-if) #exit
   09010282327037-VTP_Server(config) #exit
09010282327037-VTP_Server#
    %SYS-5-CONFIG_I: Configured from console by console
    09010282327037-VTP_Server#copy run start
Destination filename [startup-config]?
    Building configuration...
    09010282327037-VTP_Server#
```

Hasil:

```
09010282327037-VTP_Server#show vtp status
                     : 1 to 2
VTP Version capable
VTP version running
                               : 2
VTP Domain Name
                               : jarkom.ilkom.unsri.ac.id
                               : Disabled
VTP Pruning Mode
VTP Traps Generation
                               : Disabled
Device ID
                               : 0010.1178.9100
Configuration last modified by 0.0.0.0 at 3-1-93 00:05:07
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
                                 : 0
                                 : 0x71 0xEC 0x8A 0x5F 0x63 0x0B 0xAB 0x5B
MD5 digest
                                   0x16 0x61 0x0A 0xAE 0x20 0xF5 0x2C 0xEE
```

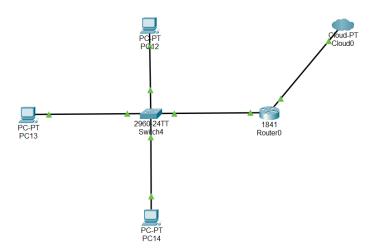
- Client

```
Switch VTP Client>enable
Switch VTP Client#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch VTP Client(config) #Hostname 09010282327037-VTP Client
09010282327037-VTP_Client(config) #banner motd #S-VTP-CLIENT#
09010282327037-VTP_Client(config)#line console 0
09010282327037-VTP_Client(config-line)#password cisco
09010282327037-VTP_Client(config-line) #login
09010282327037-VTP_Client(config-line) #exit
09010282327037-VTP_Client(config) #line vty 0 4
09010282327037-VTP_Client(config-line) #password cisco
09010282327037-VTP_Client(config-line)#login
09010282327037-VTP_Client(config-line)#exit
09010282327037-VTP_Client(config)#enable password cisco
09010282327037-VTP_Client(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.
09010282327037-VTP_Client(config) #vlan 2
09010282327037-VTP_Client(config-vlan) #name Humas
09010282327037-VTP_Client(config-vlan)#exit
09010282327037-VTP_Client(config)#vlan 3
09010282327037-VTP_Client(config-vlan)#name Keuangan
09010282327037-VTP_Client(config-vlan) #exit
09010282327037-VTP_Client(config) #vlan 4
09010282327037-VTP_Client(config-vlan) #name IT
09010282327037-VTP_Client(config-vlan) #exit
09010282327037-VTP_Client(config) #interface fastEthernet 0/1
09010282327037-VTP_Client(config-if) #swicthport mode access
09010282327037-VTP_Client(config-if) #switchport mode access 09010282327037-VTP_Client(config-if) #switchport access vlan 2
09010282327037-VTP_Client(config-if)#exit
09010282327037-VTP_Client(config)#interface fastEthernet 0/2
09010282327037-VTP_Client(config-if) #switchport mode access 09010282327037-VTP_Client(config-if) #switchport access vlan 3 09010282327037-VTP_Client(config-if) #exit 09010282327037-VTP_Client(config-if) #exit 09010282327037-VTP_Client(config) #interface fastEthernet 0/3
09010282327037-VTP_Client(config-if) #switchport mode access 09010282327037-VTP_Client(config-if) #switchport access vlan 4 09010282327037-VTP_Client(config-if) #exit
09010282327037-VTP_Client(config) #vtp version 2
09010282327037-VTP_Client(config) #vtp mode client
Setting device to VTP CLIENT mode.
09010282327037-VTP_Client(config) #vtp domain jarkom.ilkom.unsri.ac.id
Domain name already set to jarkom.ilkom.unsri.ac.id. 09010282327037-VTP_Client(config) #vtp password jarkom
Setting device VLAN database password to jarkom
09010282327037-VTP_Client(config) #interface fastEthernet 0/24
09010282327037 VTP_Client(config-if) #switchport mode trunk
09010282327037-VTP_Client(config-if) #exit
09010282327037-VTP_Client(config)#exit
09010282327037-VTP_Client#
%SYS-5-CONFIG I: Configured from console by console
09010282327037-VTP_Client#copy run start
Destination filename [startup-config]?
Building configuration ...
[OK]
```

Hasil:

```
09010282327037-VTP_Client#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
                                : 0001.C90B.E700
Device ID
Configuration last modified by 0.0.0.0 at 3-1-93 00:35:15
Feature VLAN :
VTP Operating Mode
                                  : Client
Maximum VLANs supported locally
                                  : 255
Number of existing VLANs
Configuration Revision
                                  : 7
                                  : 0x3F 0xA6 0x1B 0x66 0x9B 0x09 0x69 0x9F
MD5 digest
                                    0xB4 0x46 0x67 0x4B 0xCC 0x46 0x27 0x83
```

• 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) #switch_Distribusi(config) #line vty 0 4
Switch_Distribusi(config-line) #password cisco
Switch_Distribusi(config-line) #login
Switch_Distribusi(config-line) #login
Switch_Distribusi(config-line) #login
Switch_Distribusi(config-line) #login
```

```
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) #exit
Switch_Distribusi(config) #vlan 4
Switch_Distribusi(config-vlan) #name IT
Switch_Distribusi(config-vlan) #exit
Switch_Distribusi(config) #interface fastEthernet 0/1
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
Switch_Distribusi(config-if)#exit
Switch_Distribusi(config)#exit
Switch_Distribusi#
%SYS-5-CONFIG_I: Configured from console by console
Switch_Distribusi#copy run start
```

Hasil:

Switch Distribusi#show vlan

VLAN	N Name				Sta	tus	Ports				
1	default				act:		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			a0/11 Fa0/15 Fa0/19	
2	Humas	Humas			act:	ive	Fa0/1				
3	Keuangan			act:	ive	Fa0/2					
4	IT				act:	ive	Fa0/3				
1002	fddi-default				act:	ive					
1003	token-ring-default				act:	active					
1004	fddinet-default			act:	active						
1005	trnet-default			act:	active						
VLAN	Туре	SAID	MTU	Parent	RingNo	Bridge	No Stp	BrdgMode	Trans1	Trans2	
1	enet	100001	1500	_	_	_	_	_	0	0	
			1500		_	_	_	_	0	0	
3		100003	1500	_	_	_	_	_	0	0	
M	ore										

VLAN	Nama	Status	Port
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.
Enter configuration commands, one per line. End with CNT:
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)#Jassword Cisco
Router_I(config-line)#exit
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) #no shutdown
Router_I(config-if) #exit
Router_I(config-if) #exit
Router_I(config-if) #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-if) #exit
Router_I(config) #interface fastEthernet 0/1.1
Router_I(config-subif) #
%LINK-5-CHANGED: Interface FastEthernet0/1.1, changed state to up
 %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.1, changed state to up
 Router_I(config-subif) #encapsulation dot1Q 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) #
 %LINK-5-CHANGED: Interface FastEthernet0/1.2, changed state to up
 %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.2, changed state to up
 Router_I(config-subif) #encapsulation dot1Q 3
Router_I(config-subif) #encapsulation dot1Q 3
Router_I(config-subif) #ip address 192.168.100.1 255.255.255.0
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)#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 excluded 192.168.200.2 192.168.20
Router_I(config) #ip dhcp pool 192.168.200.0/24
Router_I(dhcp-config) #network 192.168.200.0 255.255.255.0
Router_I(dhcp-config) #default-router 192.168.200.1
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
Router_I#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router_I(config) #ip dhcp excluded 192.168.100.2 192.168.100.20
Router_I(config) #ip dhcp pool 192.168.100.0/24
Router_I(dhcp-config) #metwork 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
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) #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 Route 0.0.0.0 0.0.0.0 10.100.121.1
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]
```

Hasil:

Router_I#sh ip dhcp binding
IP address Client-ID/ Lease expiration Type
Hardware address