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MODUL 9 DAN 10

Modul 9

Mengkonfigurasi Router

```
Router$conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)$hostname Router1
Router1(config)$enable secret class
Router1(config-line)$password cisco
Router1(config-line)$password cisco
Router1(config-line)$login
Router1(config-line)$password cisco
Rout
```

Ping untuk verifikasi sambungan

```
C:\>ping 192.168.7.1

Pinging 192.168.7.1 with 32 bytes of data:

Reply from 192.168.7.1: bytes=32 time=4ms TTL=128

Reply from 192.168.7.1: bytes=32 time=2ms TTL=128

Reply from 192.168.7.1: bytes=32 time=2ms TTL=128

Reply from 192.168.7.1: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.7.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 4ms, Average = 1ms

C:\>ping 192.168.7.126

Pinging 192.168.7.126: bytes=32 time<1ms TTL=255

Reply from 192.168.7.126: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.7.126:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

```
C:\>ping 192.168.7.190

Pinging 192.168.7.190 with 32 bytes of data:

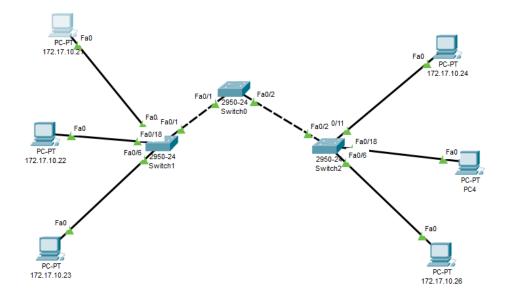
Reply from 192.168.7.190: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.7.190:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 192.168.7.126

Pinging 192.168.7.126: bytes=32 time<1ms TTL=255
Reply from 192.168.7.126: bytes=32 time<1ms TTL=25
```

Modul 10



Langkah 1 : Mematikan semua port pada Switch(S1, S2 dan S3)

```
S2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#int range fa0/1-24
S2(config-if-range)#shutdown
```

Langkah 2 : Menghidupkan port yang terpakai pada S2 dan S3

```
S2(config)#int fa0/6
S2(config-if)#no shut
S2(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/6, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/6,
changed state to up
S2(config-if)#int fa0/11
S2(config-if) #no shut
S2(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/11, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/11,
changed state to up
S2(config-if)#int fa0/18
S2(config-if) #no shut
S2(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/18, changed state to up
```

Langkah 3: Mengkonfigurasi Switch (S1, S2 dan S3)

```
S1>en
S1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S1(config) #enable secret class
Sl(config) #no ip domain-lookup
Sl(config)#line console 0
S1(config-line) #password cisco
S1(config-line) #login
S1(config-line)#line vty 0 15
S1(config-line) #password cisco
S1(config-line) #login
S1(config-line)#end
S1#
%SYS-5-CONFIG_I: Configured from console by console
Sl#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
```

Langkah 4: Mengonfigurasi mode operasi, nama domain, dan password (S1, S2 dan S3)

```
Enter configuration commands, one per line. End with CNTL/Z.
Sl(config) #vtp mode server
Device mode already VTP SERVER.
S1(config) #vtp domain Lab9
Changing VTP domain name from NULL to Lab9
S1(config)#vtp password cisco
Setting device VLAN database password to cisco
S1(config)#end
Enter configuration commands, one per line. End with CNTL/Z.
S2(config) #vtp mode client
Setting device to VTP CLIENT mode.
S2(config) #vtp domain Lab9
Changing VTP domain name from NULL to Lab9
S2(config) #vtp password cisco
Setting device VLAN database password to cisco
S2(config)#end
S3#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S3(config) #vtp mode transparent
Setting device to VTP TRANSPARENT mode.
S3(config) #vtp domain Lab9
Changing VTP domain name from NULL to Lab9
S3(config) #vtp passwrod cisco
% Invalid input detected at '^' marker.
S3(config) #vtp password cisco
Setting device VLAN database password to cisco
S3(config)#end
```

Langkah 5: Mengkonfigurasi Trunking native VLAN (S1, S2 dan S3)

```
S1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#int range fa0/1-5
S1(config-if-range)#switchport mode trunk
S1(config-if-range)#switchport trunk native vlan 99
S1(config-if-range)#no shut
```

Langkah 6: Mengkonfigurasi security port pada layer access Switch S2 dan S3

```
S2(config) #int fa0/6
S2(config-if) #switchport port-security
Command rejected: FastEthernet0/6 is a dynamic port.
S2(config-if)#int fa0/11
S2(config-if) #switchport port-security
Command rejected: FastEthernet0/11 is a dynamic port.
S2(config-if)#ex
S2(config)#int fa0/6
S2(config-if)#switchport mode access
S2(config-if)#switchport port-security
S2(config-if) #switchport port-security maximum 1
S2(config-if)#switchport port-security mac-address sticky
S2(config-if)#int fa0/11
S2(config-if) #switchport mode access
S2(config-if) #switchport port-security
S2(config-if) #switchport port-security maximum 1
S2(config-if) #switchport port-security mac-address sticky
S2(config-if)#int fa0/18
S2(config-if) #switchport mode access
S2(config-if) #switchport port-security maximum 1
S2(config-if) #switchport port-security mac-address sticky
S2(config-if)#end
```

Langkah 7: Mengkonfigurasi VLAN pada Switch dengan mode VTP server

```
Sl#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Sl(config) #vlan 99
Sl(config-vlan) #name management
Sl(config-vlan) #exit
Sl(config) #vlan 10
Sl(config-vlan) #name faculty/staff
Sl(config-vlan) #exit
Sl(config-vlan) #exit
Sl(config-vlan) #exit
Sl(config-vlan) #name students
Sl(config-vlan) #name students
Sl(config-vlan) #exit
Sl(config-vlan) #exit
Sl(config-vlan) #exit
Sl(config-vlan) #name guest
Sl(config-vlan) #name guest
```

```
S3#
%SYS-5-CONFIG_I: Configured from c
S3#sh vlan brief

VLAN Name

1 default
Fa0/5

Fa0/9

Fa0/12, Fa0/13

Fa0/16, Fa0/17

Fa0/20, Fa0/21

Fa0/24
1002 fddi-default
1003 token-ring-default
1005 trnet-default
1005 trnet-default
S3#
```

VLAN	Name	Status	Ports	-
1 Fa0/	default	active	Fa0/2, Fa0/3, Fa0/4,	
Fa0/9	9		Fa0/6, Fa0/7, Fa0/8,	
Fa0/:	12, Fa0/13		Fa0/10, Fa0/11,	
Fa0/:	16, Fa0/17		Fa0/14, Fa0/15,	
Fa0/2	20, Fa0/21		Fa0/18, Fa0/19,	
Fa0/24			Fa0/22, Fa0/23,	
10	faculty/staff	active		
20	students	active		
	guest	active		
	management	active		
	fddi-default	active		
		active		
		active		
	trnet-default	active		
S2#				-

Langkah 8 : Mengkonfigurasi VLAN secara manual pada S3 karena S3 client

```
S3#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S3(config)#vlan 88
S3(config-vlan)#name test
S3(config-vlan)#ex
S3(config)#no vlan 88
S3(config)#vlan 99
S3(config-vlan)#name management
S3(config-vlan)#ex
S3(config)#vlan 10
S3(config-vlan)#name faculty/staff
S3(config-vlan)#ex
S3(config)#vlan 20
S3(config-vlan) #name students
S3(config-vlan)#ex
S3(config)#vlan 30
S3(config-vlan)#name guest
S3(config-vlan)#exit
Langkah 9 : Mengkonfigurasi IP Address interface manajemen (S1, S2 dan S3)
S1(config-if)#ip address 172.17.99.11 255.255.255.0
Sl(config-if) #no shut
S1(config-if)#
Langkah 10 : Memasukkan port pada VLAN
S1(config)#int range fa0/6-10
Sl(config-if-range)#switchport access vlan 30
S1(config-if-range)#int range fa0/11-17
S1(config-if-range)#switchport access vlan 10
S1(config-if-range)#int range fa0/18-24
Sl(config-if-range)#switchport access vlan 20
S1(config-if-range)#end
Langkah 11 : Memeriksa VTP prunning
Sl#sh vtp status
VTP Version
Configuration Revision
Maximum VLANs supported locally : 255
Number of existing VLANs
VTP Operating Mode
                                        : Server
VTP Domain Name
                                        : Lab9
VTP Pruning Mode
                                        : Disabled
```