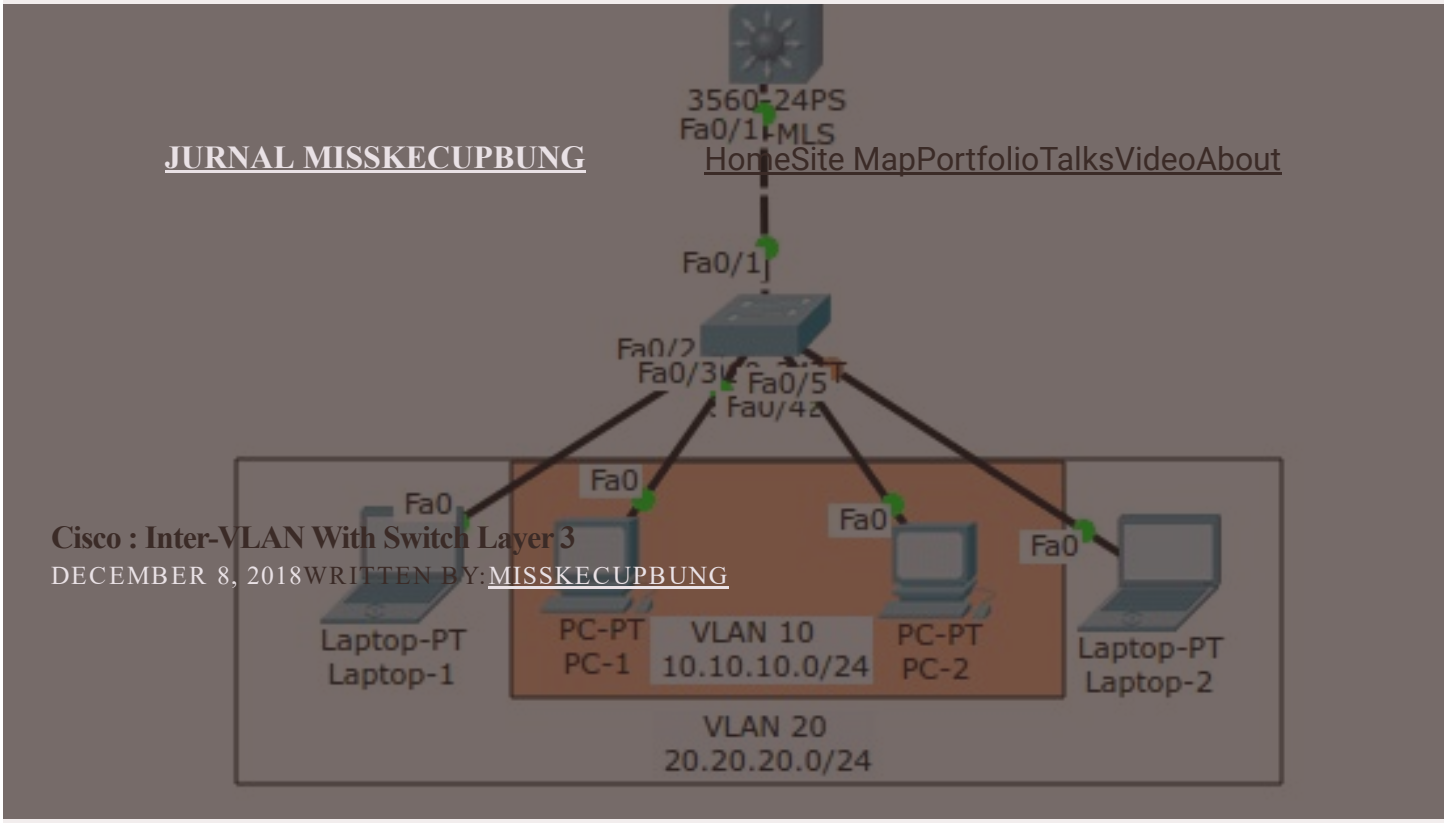
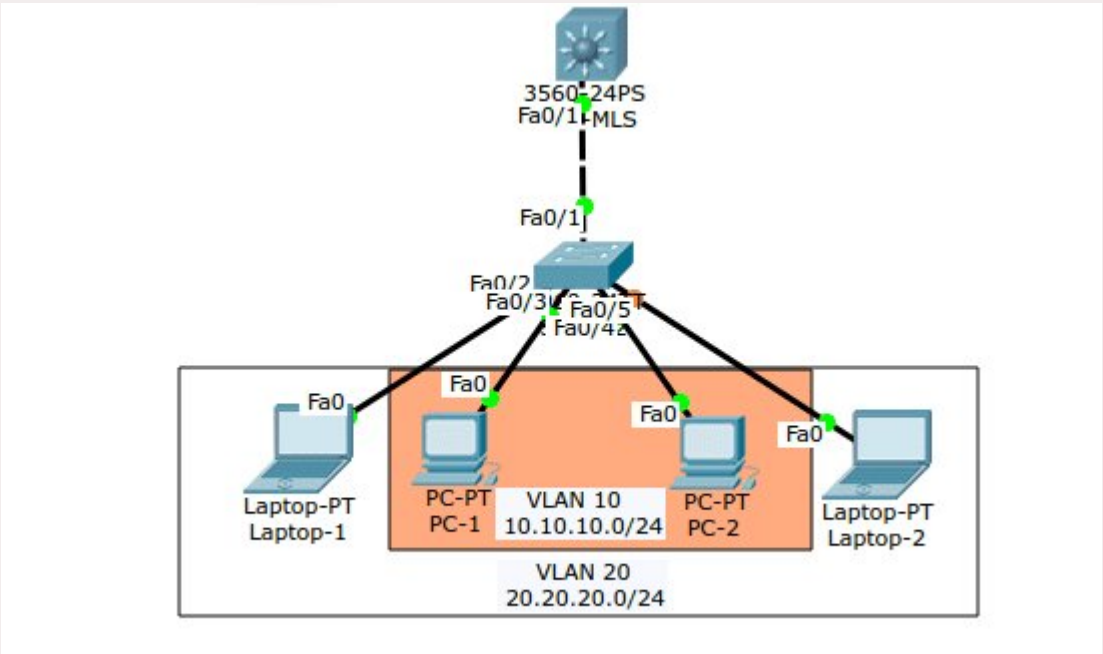


Cisco : Inter-VLAN With Switch Layer 3

DECEMBER 8, 2018WRITTEN BY:MISSKECUPBUNG

Msih sama seperti bab sebelumnya, disini kita akan konfigurasi mengenai bab InterVLAN. Hanya saja, dalam bab ini, device yang akan kita gunakan adalah MLS (Multi Layer Switch) atau bisa disebut Switch Layer 3.

TOPOLOGI :



KONFIGURASI :

Buat VLAN 10 dan VLAN 20, lalu assign seperti biasa. Jangan lupa mode-kan trunk untuk
interface yang terhubung ke Sakti-MLS :

```
SaktiSW(config)#vlan 10
SaktiSW(configvlan)#name sakti
SaktiSW(configvlan)#exit
SaktiSW(config)#vlan 20
SaktiSW(configvlan)#name smk
SaktiSW(configvlan)#exit
SaktiSW(config)#interface fa0/1
SaktiSW(configif)#switchport mode trunk
SaktiSW(configif)#
%LINEPROTO5UPDOWN: Line protocol on Interface
FastEthernet0/1, changed state to down
%LINEPROTO5UPDOWN: Line protocol on Interface
FastEthernet0/1, changed state to up
SaktiSW(configif)#exit
SaktiSW(config)#interface range fa0/34
SaktiSW(configifrange)#switchport mode access
SaktiSW(configifrange)#switchport access vlan 10
SaktiSW(configifrange)#exit
SaktiSW(config)#interface range fa0/2,fa0/5
SaktiSW(configifrange)#switchport mode access
SaktiSW(configifrange)#switchport access vlan 20
SaktiSW(configifrange)#exit
SaktiSW(config)#
```

Selanjutnya, kita konfigurasi MLS-nya :
Mode-kan Trunk di interface yang terhubung ke Sakti-SW

```
SaktiMLS(config)#interface fa0/1
SaktiMLS(configif)#switchport trunk encapsulation dot1q
SaktiMLS(configif)#switchport mode trunk
SaktiMLS(configif)#exit
```

Set IP routing agar bisa berfungsi sebagai Layer 3 :

```
SaktiMLS(config)#ip routing
SaktiMLS(config)#
```

Buat VLAN yang sesuai di Sakti-SW (nama optional) :

```
SaktiMLS(config)#vlan 10
SaktiMLS(configvlan)#name sakti
SaktiMLS(configvlan)#vlan 20
SaktiMLS(configvlan)#name smk
SaktiMLS(configvlan)#exit
```

Set IP Address di interface VLAN yang nantinya digunakan untuk gateway PC-Client
:

```
SaktiMLS(config)#interface vlan 10
```

```
SaktiMLS(configif)#no shutdown
SaktiMLS(configif)#ip address 10.10.10.1 255.255.255.0
SaktiMLS(configif)#exit
SaktiMLS(config)#interface vlan 20
SaktiMLS(configif)#no shutdown
SaktiMLS(configif)#ip address 20.20.20.1 255.255.255.0
SaktiMLS(configif)#exit
SaktiMLS(config)#
```

Nah, selanjutnya kita bisa cek dengan ping host VLAN 10 (10.10.10.0/24) dengan host VLAN20 (20.20.20.0/24)

Laptop-1 (20.20.20.2/24) ping PC-1 (10.10.10.2/24)

```
Packet Tracer PC Command Line 1.0
C:\>ping 10.10.10.2
Pinging 10.10.10.2 with 32 bytes of data:
Request timed out.
Reply from 10.10.10.2: bytes=32 time=54ms TTL=127
Reply from 10.10.10.2: bytes=32 time=44ms TTL=127
Reply from 10.10.10.2: bytes=32 time=55ms TTL=127
Ping statistics for 10.10.10.2:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milliseconds:
Minimum = 44ms, Maximum = 55ms, Average = 51ms
C:\>
```

PC-2 (10.10.10.3/24) ping Laptop-2 (20.20.20.3/24) :

```
Packet Tracer PC Command Line 1.0
C:\>ping 20.20.20.3
Pinging 20.20.20.3 with 32 bytes of data:
Reply from 20.20.20.3: bytes=32 time=183ms TTL=127
Reply from 20.20.20.3: bytes=32 time=49ms TTL=127
Reply from 20.20.20.3: bytes=32 time=65ms TTL=127
Reply from 20.20.20.3: bytes=32 time=40ms TTL=127
Ping statistics for 20.20.20.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milliseconds:
Minimum = 40ms, Maximum = 183ms, Average = 84ms
C:\>
```

Sekian:)

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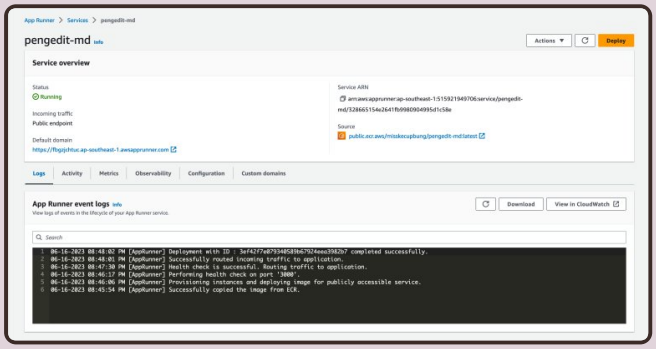

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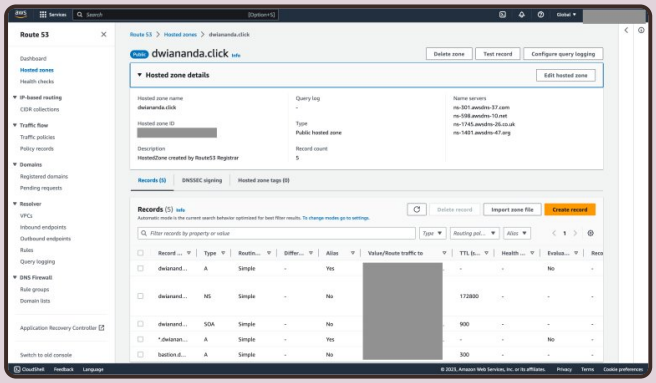

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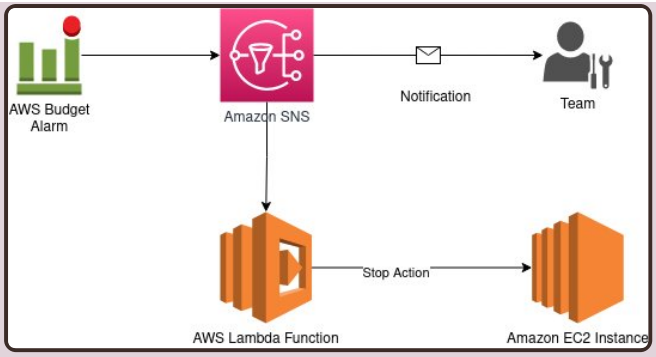

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