

Lecture (06)

VTP

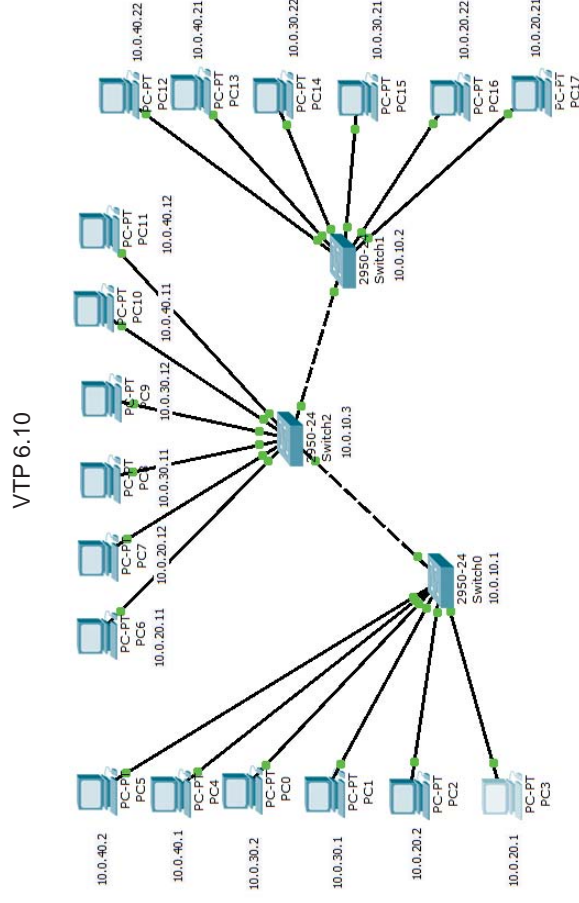
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VTP

- VLAN Trunking Protocol (VTP) is a Cisco proprietary protocol that propagates the definition of Virtual Local Area Networks (VLAN) on the whole local area network
- To do this, VTP carries VLAN information to all the switches in a VTP domain.
- VTP advertisements can be sent LAN trunks.
- VTP is available on most of the Cisco Catalyst Family products.
- Their are three versions of vtp, namely version 1 , version 2, version 3.
- The comparable IEEE standard in use by other manufacturers.

Agenda

- 3 switches
- VTP



```

SW01
****
enabl
config t
hostname FL01-R01-SW01
banner motd #FL01-R01-
SW01 - 10.0.10.1#

line vty 0 4
password cisco
login

line console 0
password cisco
login

enable password cisco

enable secret cisco1

vtp domain ACU
vtp mode server

```

```

interface vlan 1
ip address 10.0.10.1
255.255.255.0
no shutdown

vlan 2
name Finance

vlan 3
name HR

vlan 4
name Administration

interface range fa0/1-24
speed auto
duplex auto

interface range fa0/1-5
switchport mode access
switchport access vlan 2

interface range fa0/6-10
switchport mode access

```

```

switchport access vlan 3

interface range fa0/11-15
switchport mode access
switchport access vlan 4

interface range fa0/23-24
switchport mode trunk

end

copy running-config
startup-config

```

```

SW02
****
enabl
config t
hostname FL01-R02-SW02
banner motd #FL01-R02-
SW02 - 10.0.10.2#

line vty 0 4
password cisco
login

line console 0
password cisco
login

enable password cisco

enable secret cisco1

vtp domain ACU
vtp mode client

```

```

interface vlan 1
ip address 10.0.10.2
255.255.255.0
no shutdown

interface range fa0/1-24
speed auto
duplex auto

interface range fa0/1-5
switchport mode access
switchport access vlan 2

interface range fa0/6-10
switchport mode access
switchport access vlan 3

interface range fa0/11-15
switchport mode access
switchport access vlan 4

```

```

interface fa0/24
switchport mode trunk

interface fa0/23
switchport mode trunk

end

copy running-config
startup-config

```

```

SW03
****
enabl
config t
hostname FL01-R03-SW03
banner motd #FL01-R03-
SW03 - 10.0.10.3#

line vty 0 4
password cisco
login

line console 0
password cisco
login

enable password cisco

enable secret cisco1

vtp domain ACU
vtp mode client

```

```

interface vlan 1
ip address 10.0.10.3
255.255.255.0
no shutdown

interface range fa0/1-24
speed auto
duplex auto

interface range fa0/1-5
switchport mode access
switchport access vlan 2

interface range fa0/6-10
switchport mode access
switchport access vlan 3

interface range fa0/11-15
switchport mode access
switchport access vlan 4

```

```

interface fa0/24
switchport mode trunk

interface fa0/23
switchport mode trunk

end

copy running-config
startup-config

```

```

Test SW01
*****
FL01-R01-SW01#show vtp status
VTP Version : 2
Configuration Revision : 6
Maximum VLANs supported locally : 255
Number of existing VLANs : 8
VTP Operating Mode : Server
VTP Domain Name : ACU
VTP Pruning Mode : Disabled
VTP V2 Mode : Disabled
VTP Traps Generation : Disabled
MD5 digest : 0xED 0x01
0xC6 0x30 0xE0 0x1F 0x98 0x2A
Configuration last modified by 10.0.10.1 at
3-1-93 00:32:14
Local updater ID is 10.0.10.1 on interface
V11 (lowest numbered VLAN interface
found)

```

```

Test SW02
*****
FL01-R02-SW02#show vtp status
VTP Version : 2
Configuration Revision : 6
Maximum VLANs supported locally : 255
Number of existing VLANs : 8
VTP Operating Mode : Client
VTP Domain Name : ACU
VTP Pruning Mode : Disabled
VTP V2 Mode : Disabled
VTP Traps Generation : Disabled
MD5 digest : 0xED 0x01
0xC6 0x30 0xE0 0x1F 0x98 0x2A
Configuration last modified by 10.0.10.1 at
3-1-93 00:32:14
FL01-R02-SW02#

```

Test SW03

```
FL01-R03-SW03#show vtp status
VTP Version      : 2
Configuration Revision : 6
Maximum VLANs supported locally : 255
Number of existing VLANs : 8
VTP Operating Mode : Client
VTP Domain Name   : ACU
VTP Pruning Mode  : Disabled
VTP V2 Mode       : Disabled
VTP Traps Generation : Disabled
MD5 digest       : 0xED 0x01
0xC6 0x30 0xE0 0x1F 0x98 0x2A
Configuration last modified by 10.0.10.1 at
3-1-93 00:32:14
```

Thanks,..
See you next week (ISA),...