

CCNA TECHNOLOGIES SERIES

ONLINE TRAINING CLASS – CHAPTER 02



BURMESE VERSION

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SVI AND VTP

Inter-VLAN Routing with SVI

LAB 1: SVI

VTP

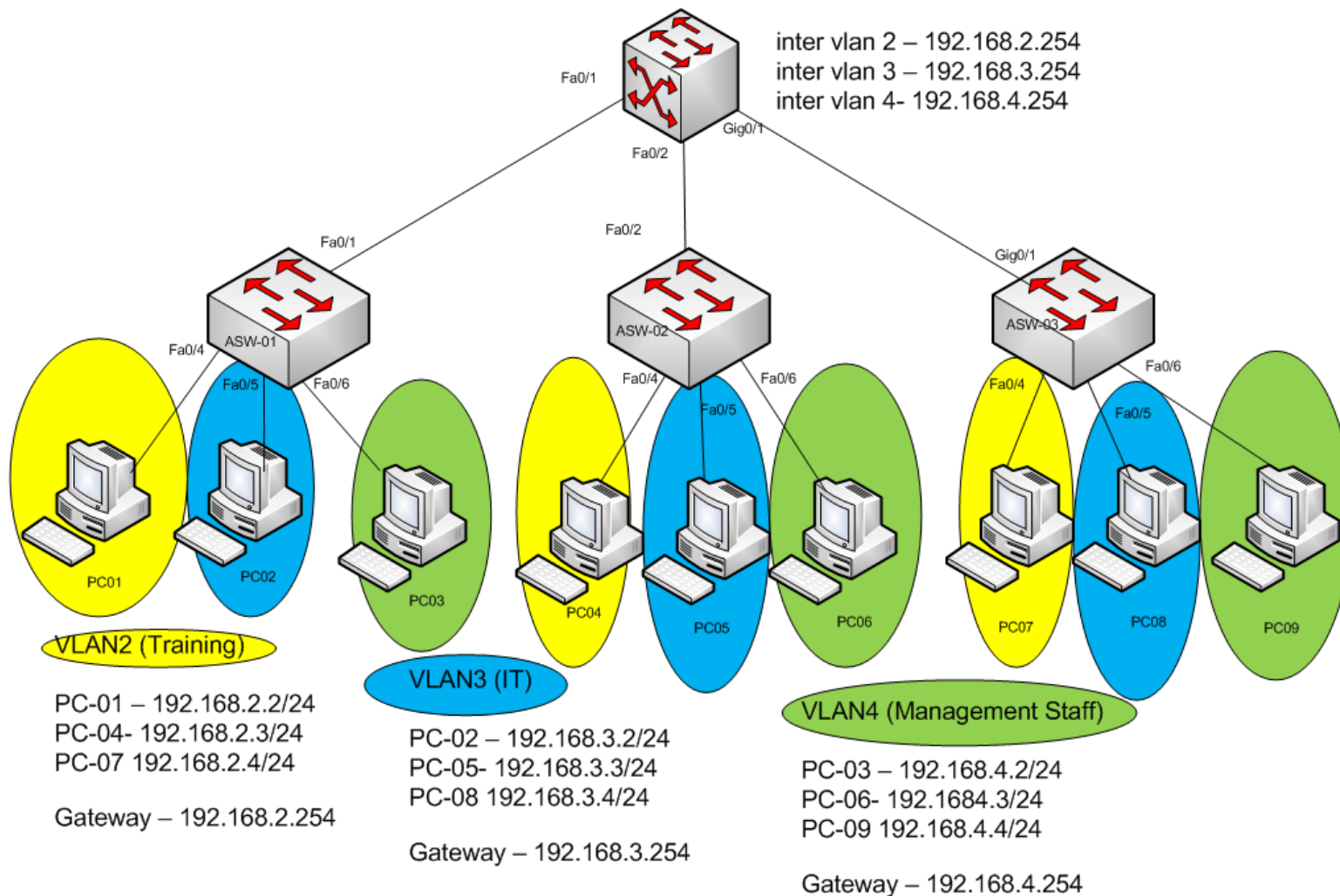
LAB 2: VTP

SWITCH VIRTUAL INTERFACE

- SVI can be used for inter-VLAN routing
- SVI means assigning IP address on VLAN interfaces for each vlan to be routed on L3 Switches.
- Enable “ip routing” on L3 Switch
- Creating Switch Virtual Interface
 - Switch(config)# interface vlan 2
 - Switch(config-if)#
- Assign IP
 - Switch(config-if)# ip address 192.168.2.254 255.255.255.0
- Activate the SVI interface
 - Switch(config-if)#no shutdown



LAB: SVI INTER-VLAN ROUTING



VLAN TRUNKING PROTOCOL

- Cisco Proprietary : VLAN Trunking Protocol for exchanging VLAN databases between the switches.
- The Links between the switches must be trunk link (802.1q/ISL).
- Automatically synchronize the VLAN information changes in the VLAN database.
- All switches must be in same VTP Domain.
- Same VTP Password.
- There are three VTP Modes:
 - Server
 - Client
 - Transparent Mode
- At Least one Server must exist in the network to allow the VLAN changes in the network.
- Whenever there is a change in VLAN database, “Configuration Revision Number” will be increased by 1.



VTP MODES COMPARISON TABLE

Function	Server	Client	Transparent
Only sends VTP messages out ISL or 802.1Q trunks	Yes	Yes	Yes
Allows CLI configuration of VLANs	Yes	No	Yes
Can use in Normal VLAN s (1-1005)	Yes	Yes	Yes
Can use in extended VLANs (1006-4095)	No	No	Yes



VTP MODES COMPARISON TABLE

Function	Server	Client	Transparent
Synchronizes its own config database when receiving VTP messages with a higher revision number	Yes	Yes	No
Creates and sends periodic VTP updates every 5 minutes	Yes	Yes	No
Does not process received VTP updates, but does forward received VTP updates out other trunks	No	No	Yes

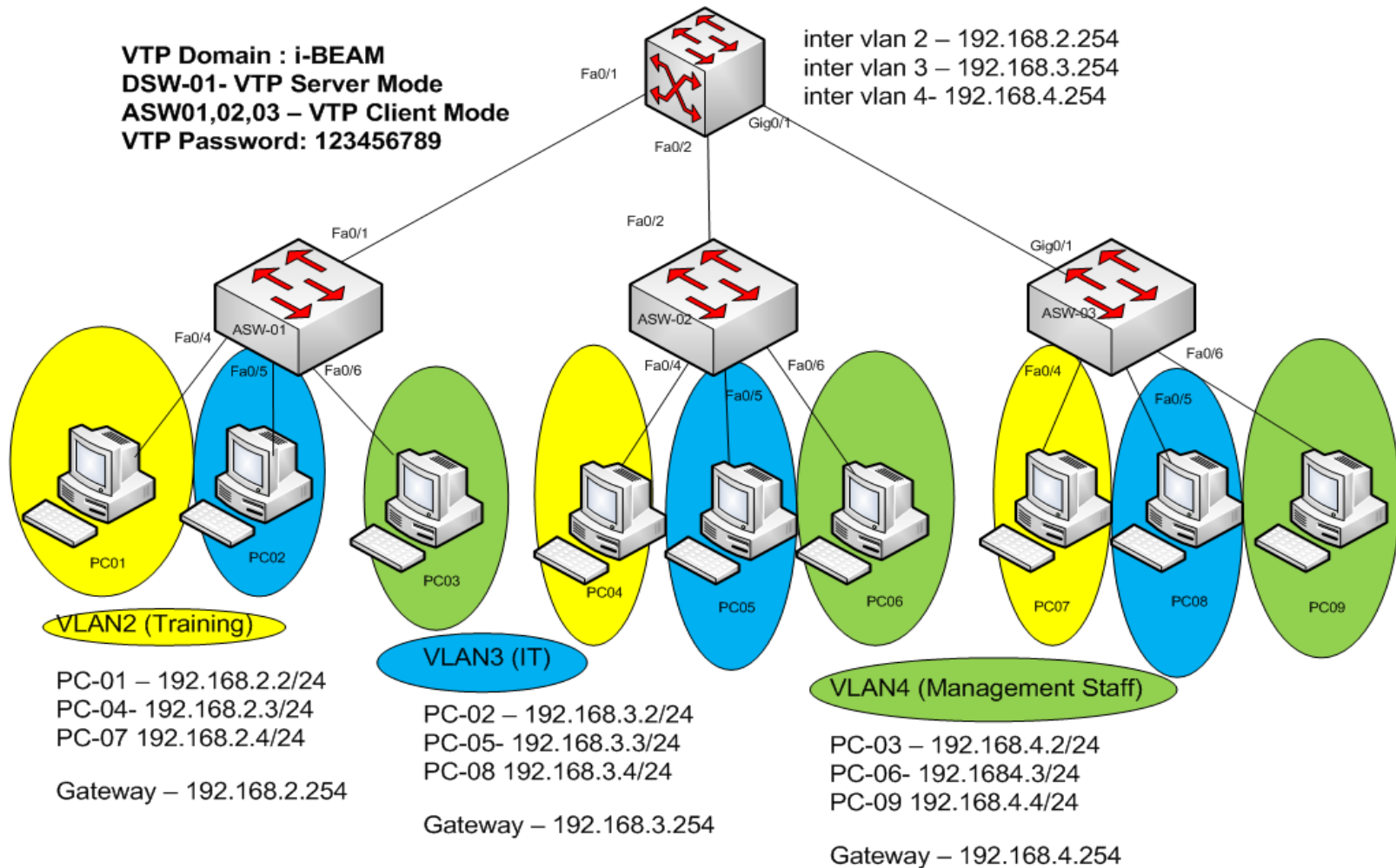


VTP CLI CONFIGURATION

- Set VTP Domain
 - Switch(config)# vtp domain i-BEAM
- Change VTP Mode
 - Switch(config)#vtp mode server/client/transparent
- Set VTP Password
 - Switch(config)#vtp password xxxxx
- VTP Pruning
 - Switch(config)# vtp pruning



LAB: VTP LAB



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TO BE CONTINUED...

THANKS FOR YOUR ATTENTION!

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