

VLANs

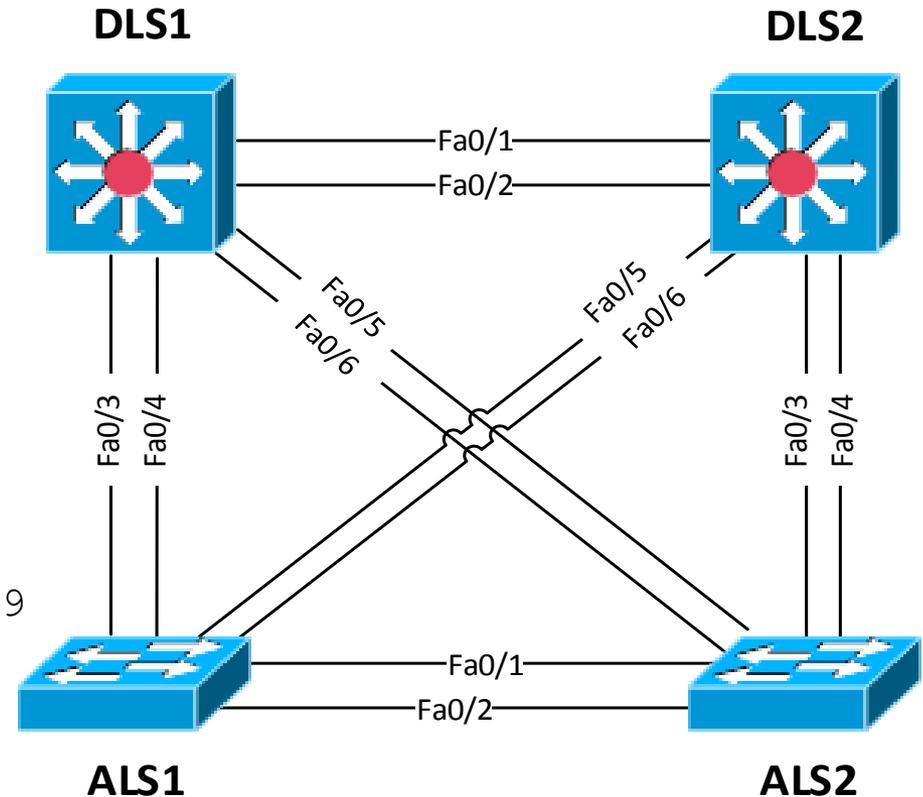


SWITCH Module 2

Lab 2.1: Create Mgmt and Parking VLANs

- ALS1 and ALS2:

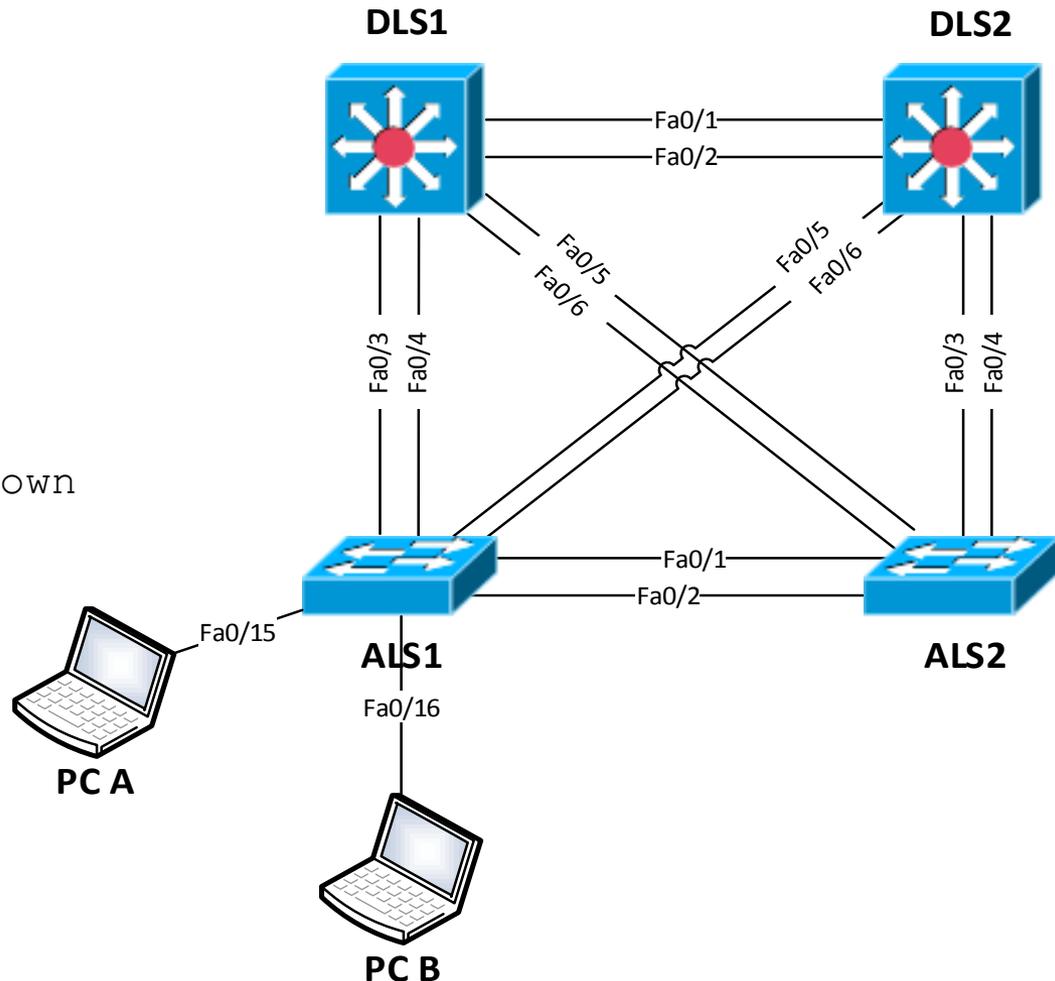
- (conf)# vlan 99
- (conf-vlan)# name Management
- (conf-vlan)# vlan 999
- (conf-vlan)# name ParkingLot
- (conf-vlan)# int ra fa0/15-19
- (conf-if)# sw mod acc
- (conf-if)# sw acc vla 999



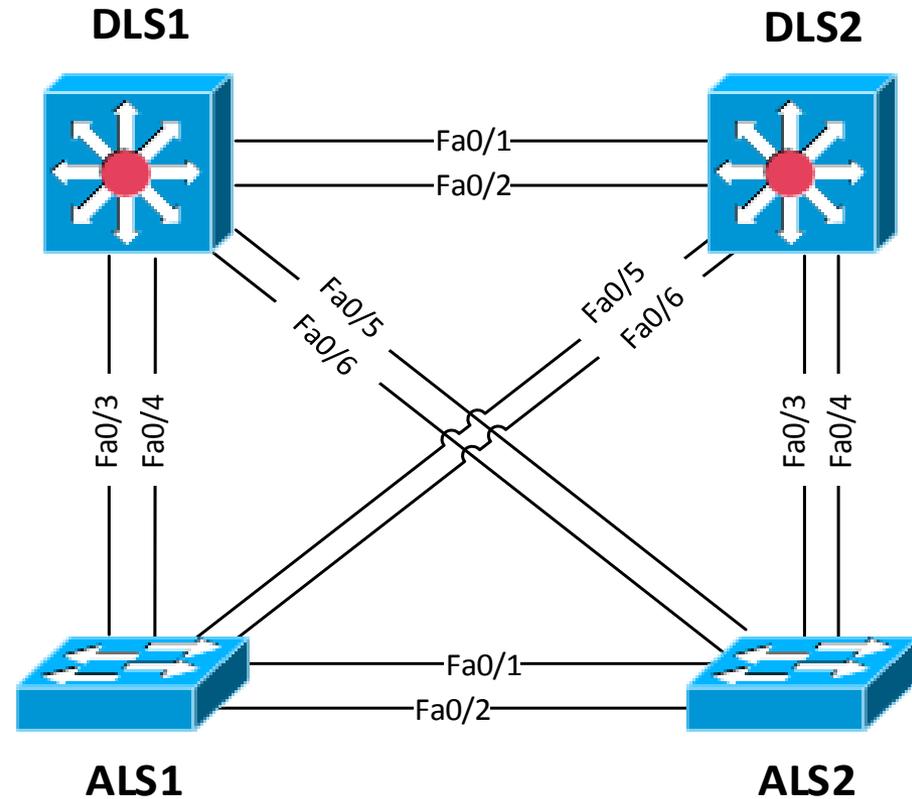
Lab 2.2: Suspend Parking VLAN

- ALS1 and ALS2:

- (conf)# vlan 999
- (conf-vlan)# shutdown
- show vlan



Lab 2.3: Creating Trunks

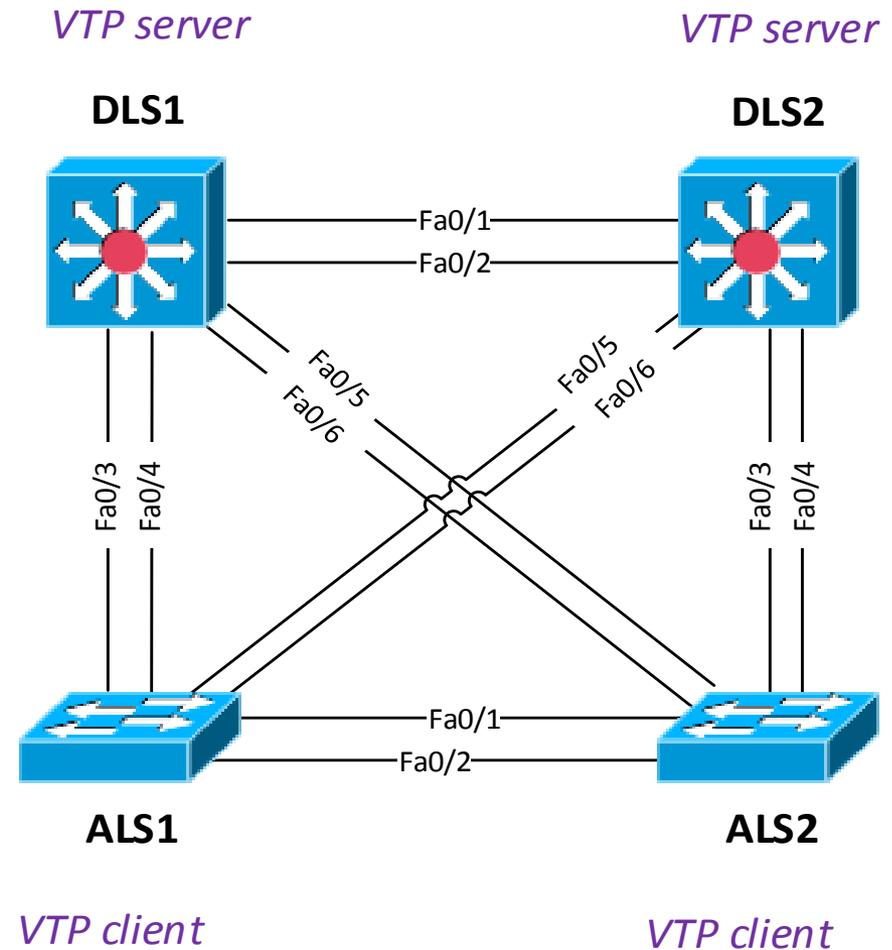


- *LS*:

- (conf)# interface Fa0/*
- (conf-if)# switchport trunk encapsulation dot1q
- (conf-if)# switchport mode trunk
- show interface trunk

Lab 2.4: DLS as Authoritative VTP Servers

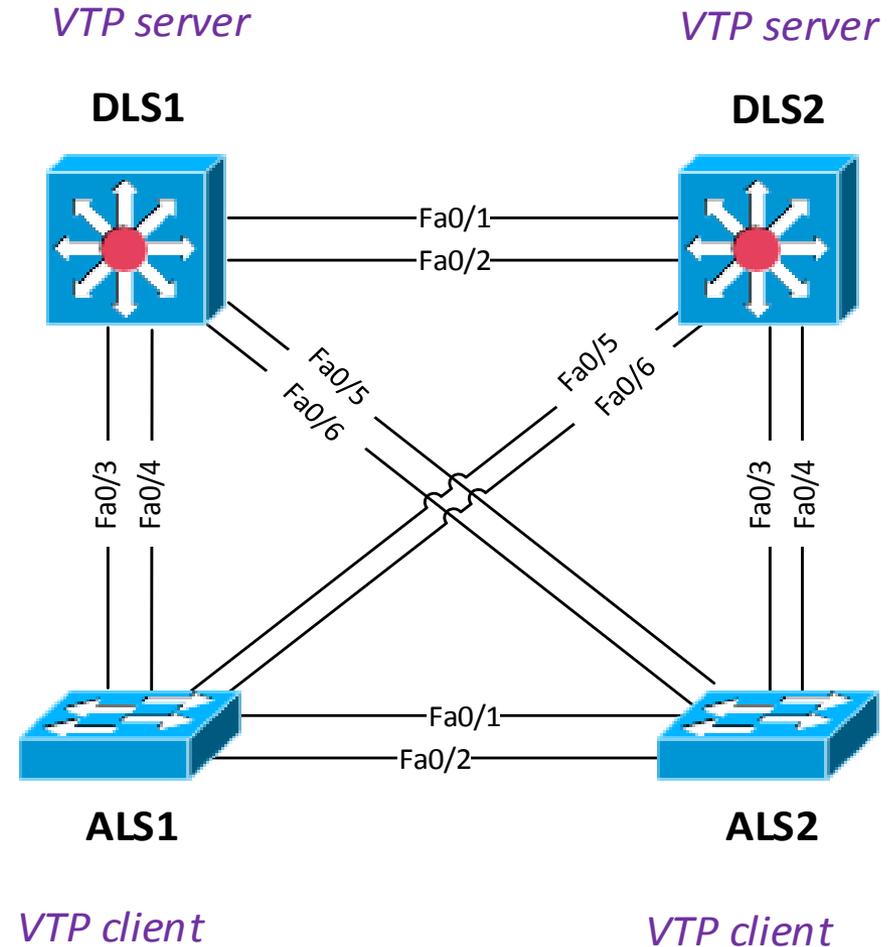
- ***LS*:**
 - (conf)# vtp domain FIT
 - (conf)# vtp password HESLO
- **DLS*:**
 - (conf)# vtp mode server
- **ALS*:**
 - (conf)# vtp mode client



Lab 2.4: Create New VLANs

■ DLS1:

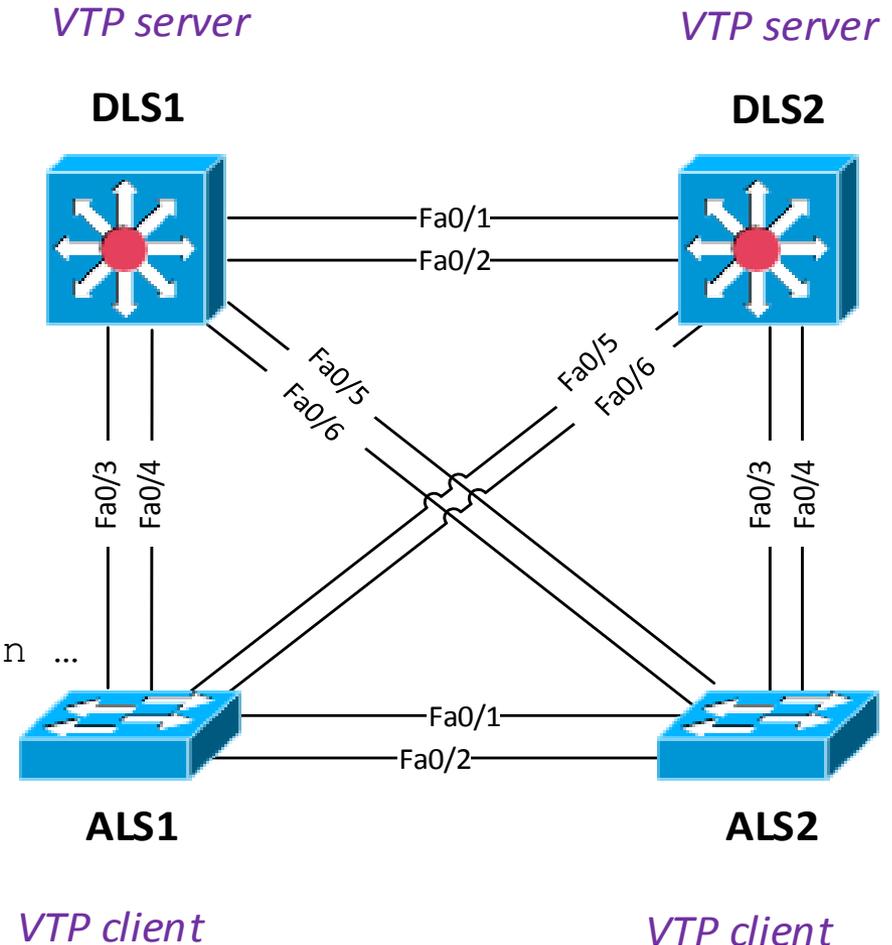
- (conf)# vlan 10
- (conf-vlan)# name UIFS
- (conf)# vlan 20
- (conf-vlan)# name UPSY
- (conf)# vlan 30
- (conf-vlan)# name UPGM
- (conf)# vlan 40
- (conf-vlan)# name UITS
- (conf)# vlan 50
- (conf-vlan)# name CVT
- (conf)# vlan 9
- (conf-vlan)# name Native
- (conf)# vlan 99
- (conf-vlan)# name Management
- (conf-vlan)# vlan 999
- (conf-vlan)# name ParkingLot
- (conf-vlan)# state suspend



Lab 2.5: Change Native VLAN, Disable Negotiation and Allow Only Existing VLAN

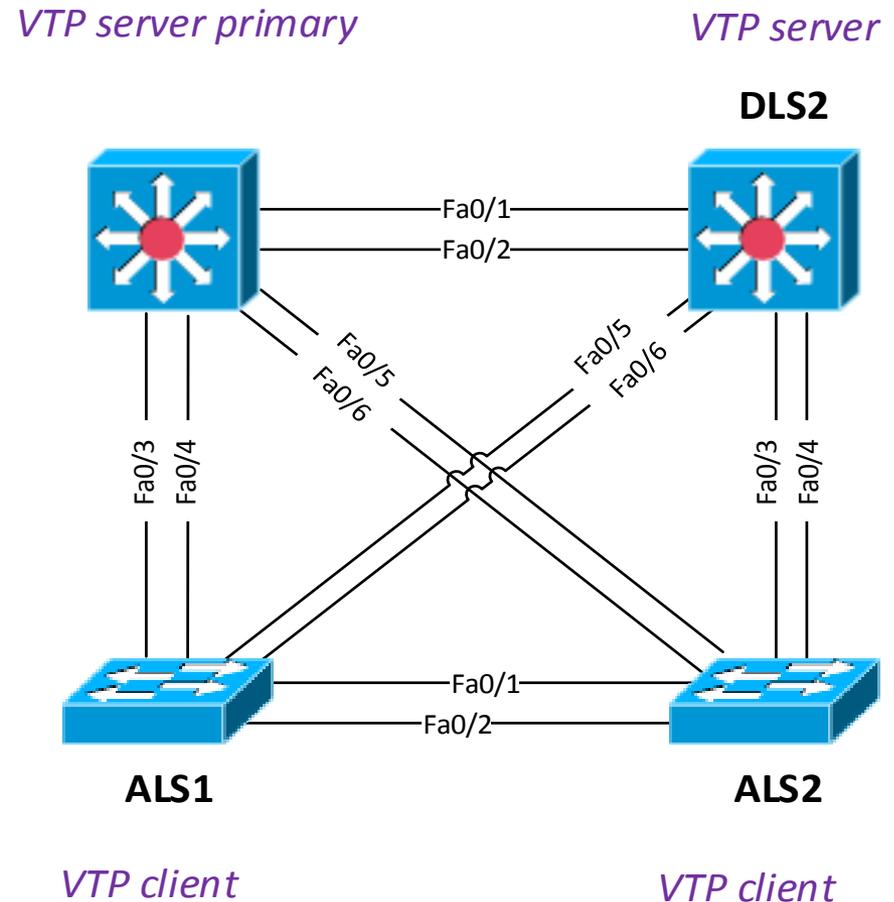
- *LS*:

- (conf) int ra fa0/1-6
- (conf-if)# sw nonegotiate
- (conf-if)# sw trunk allow vlan ...
- (conf-if)# sw tru nat vla 9
- # show int trunk



Lab 2.6: Migrate to VTPv3

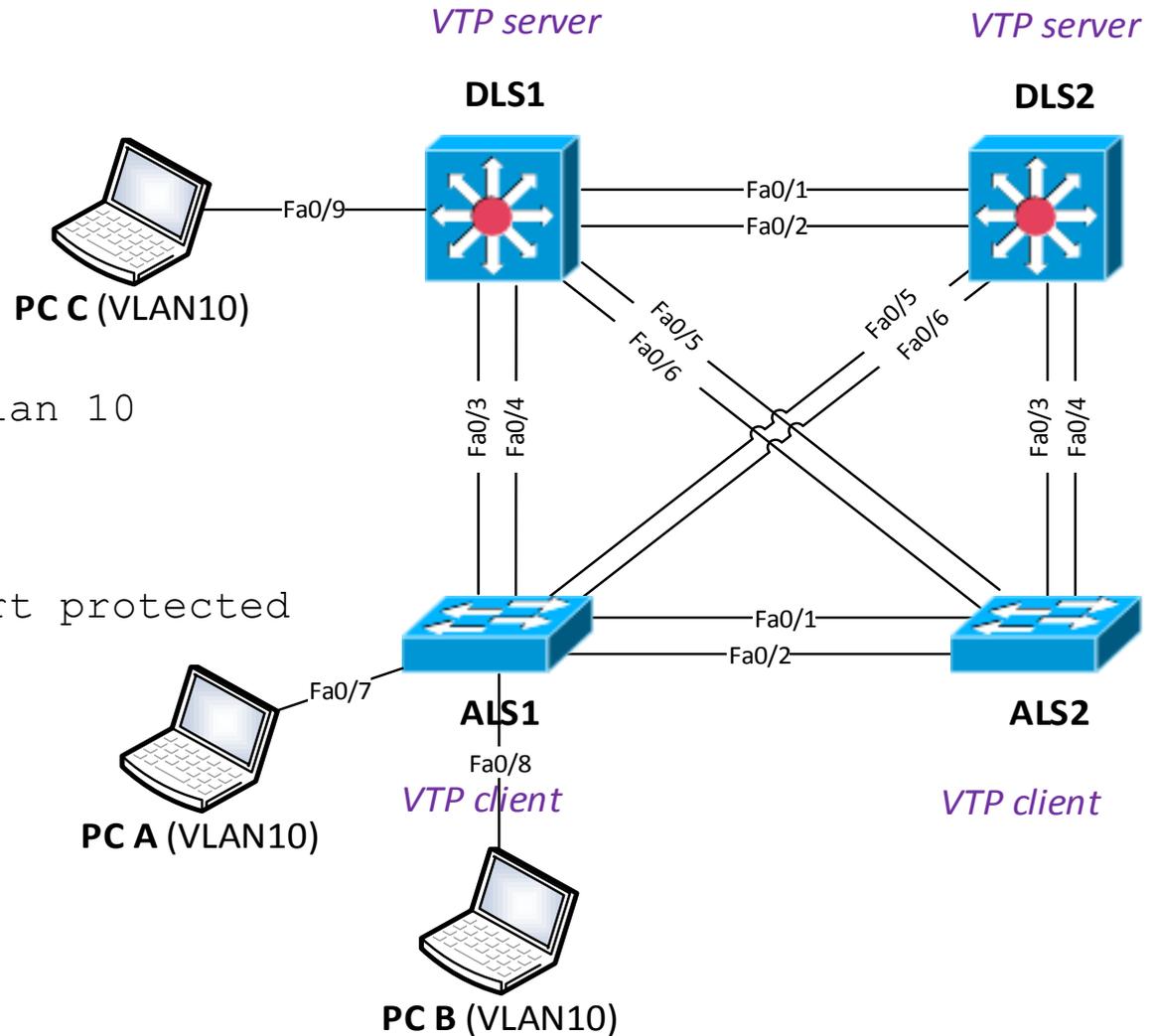
- DLS*:
 - (conf)# vtp version 3
 - (conf)# vtp mode server vlan
- ALS*:
 - (conf)# vtp version 3
 - (conf)# vtp mode client vlan
- DLS1:
 - # vtp primary vlan
- # show vtp status



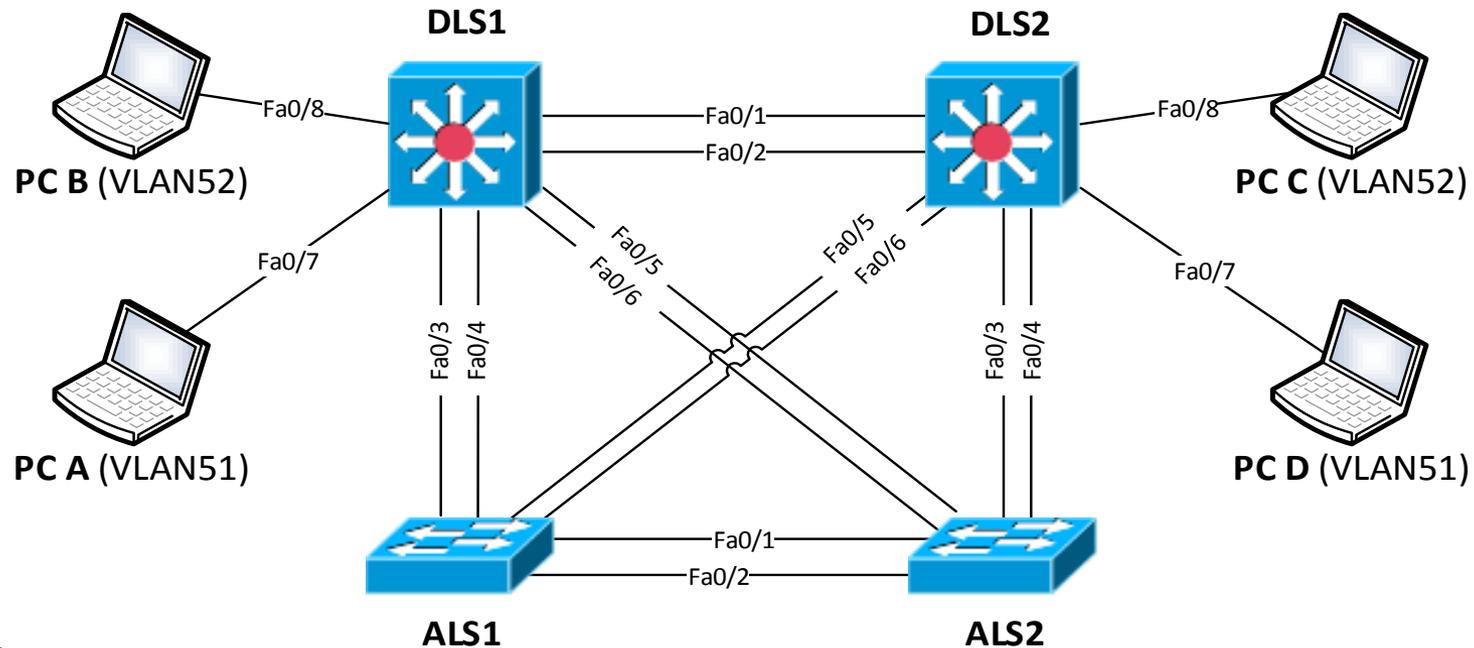
Lab 2.7: Limit Communication on UIFS

- *LS1:

- (conf-if)# sw acc vlan 10
- ping
- (conf-if)# switchport protected
- # show vlan
- ping



Lab 2.8: Limit Communication with PVLAN



■ DLS1:

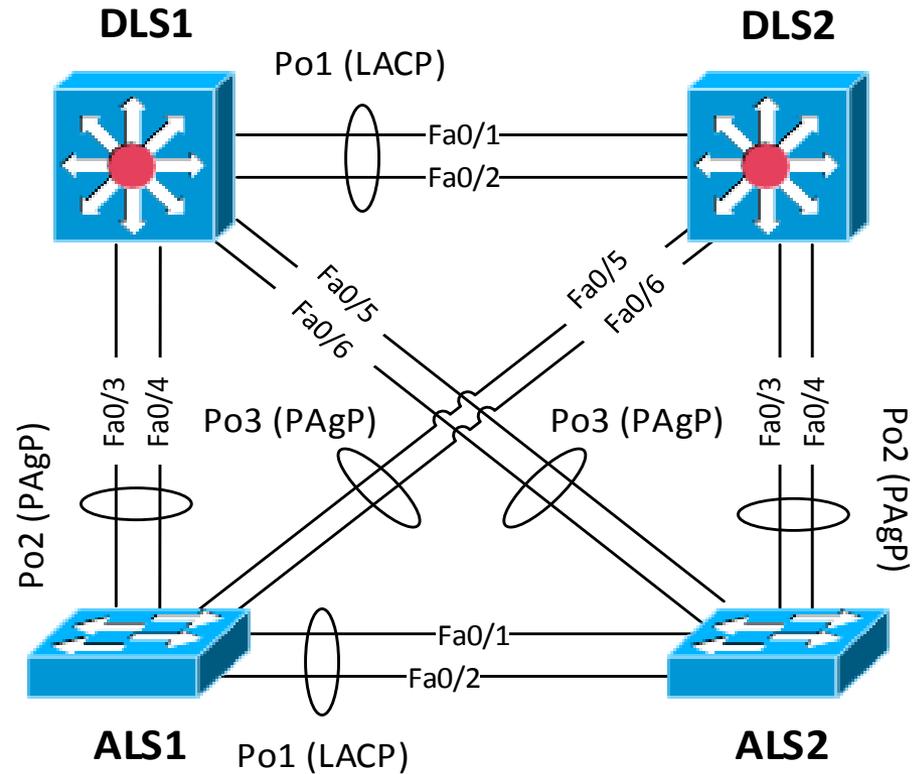
- (conf)# vlan 51
- (conf)# private-vlan isolated
- (conf)# vlan 52
- (conf)# private-vlan community
- (conf)# vlan 50
- (conf)# private-vlan primary
- (conf)# private-vlan association 51,52

■ DLS*:

- (conf-if)#
sw mod private-vlan host
sw private-vlan host-ass 50 51/52
- # show vlan
- ping
- **Do not forget to allow primary and secondary VLANs on trunks!**

Lab 2.9: Convert Trunks to Etherchannel

- Between ALS1-ALS2
 - `(conf)# interface range Fa0/*`
 - `(conf-if)# channel X mode active`
- Between DLS1-DLS2
 - `(conf)# interface range Fa0/*`
 - `(conf-if)# channel X mode active`
- Between ALS*-DLS*
 - `(conf)# interface range Fa0/*`
 - `(conf-if)# channel X mode desirable`
- `show etherchannel summary`
- `show int trunk`





Labs created by [Vladimír Veselý](#) for C2P practice.

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