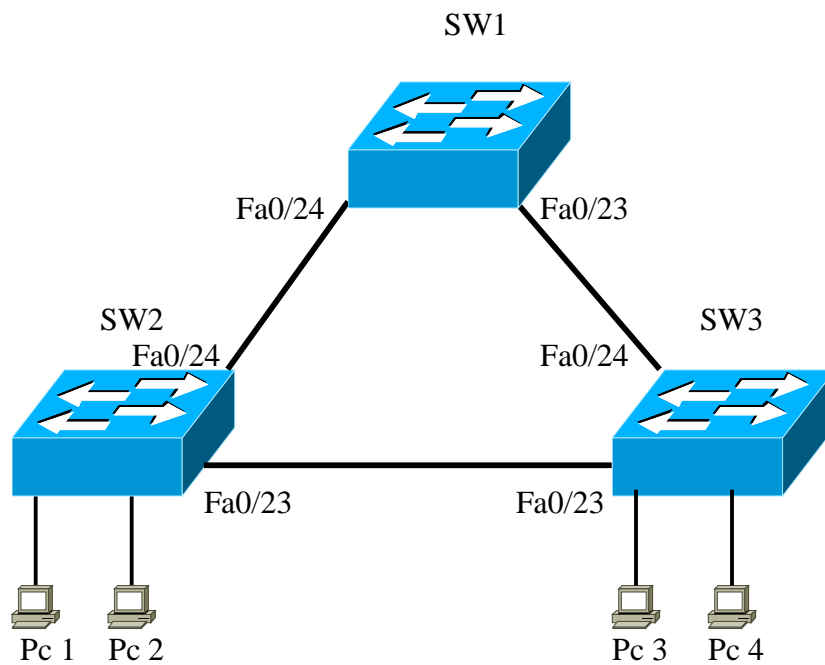


CISCO CERTIFIED NETWORK ASSOCIATE (CCNA)

LAB – 2

SWITCHING**VLAN & VTP****HARDWARE REQUIRED FOR LAB:**

1. Three 2950 series switches
2. Three crossover cables for interswitch connectivity
3. IOS 12.0 and greater
4. 4 Pc's to test security
5. Connect sw1 fa0/24 to sw2 fa0/24
6. Connect sw2 fa0/23 to sw3 fa0/23
7. Connect sw3 fa0/24 to sw1 fa0/23

Vlan Summary:

1. Connect pc 1 & pc 2 to interface fa0/1, fa0/2 resp. in SW1
2. Connect pc 3 & pc 4 to interface fa0/1, fa0/2 resp. in SW3
3. Configure interfaces in different vlans

```
Switch#vlan database
Switch(vlan)#vlan 10 name sales
Switch(vlan)#vlan 20 name finance
Switch(vlan)#exit
Switch#conf t
Switch(config)#interface fa0/1
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/2
Switch(config-if)#switchport access vlan 20
Switch(config-if)#interface fa0/24
Switch(config-if)#switchport trunk encapsulation isl
Switch(config-if)#exit
Switch(config)#exit
Switch#show vlan
Switch#show trunk
```

Test connectivity between pc's.
Connect them in same vlan and test again.

SPANNING-TREE CONFIGURATION COMMANDS :

```
Switch#show spanning-tree
Switch#show interface trunk
Switch#show spanning-tree root
```

VTP CONFIGURATION :

```
Switch(config)#vtp domain cisco
Switch(config)#vtp password ccna
Switch(config)#vtp mode client
Switch(config)#vtp pruning
```

VTP Verification :

```
Switch#show vtp status
Switch#show run
Switch#show vtp password
```