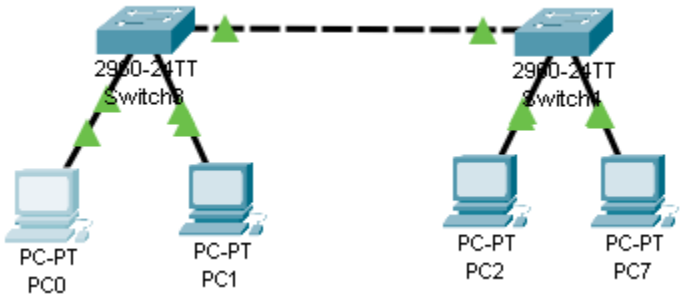
Vlan trunking using two switches (Day three – Trouble shooting using trunk)

Setup:



On this set up we have four PC's connected on different switches, two switches in total for the Vlan and trunking. Instead of having the VLAN's segregated on a single switch i.e, vlan 10 only on switch 2. This configuration would have multiple vlan's on different switches.

VLAN NUMBER	VLAN NAME
10	ITdepartment
20	HRdepartment

PC0 and PC2 are connected on VLAN 10 (IT department)

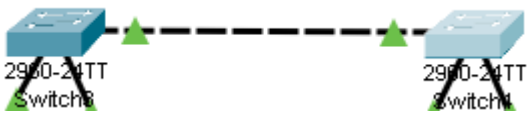
Switch 1

```
1    default                          active    Fa0/4, Fa0/5, Fa0/6, Fa0/7
                                                Fa0/8, Fa0/9, Fa0/10, Fa0/11
                                                Fa0/12, Fa0/13, Fa0/14, Fa0/15
                                                Fa0/16, Fa0/17, Fa0/18, Fa0/19
                                                Fa0/20, Fa0/21, Fa0/22, Fa0/23
                                                Fa0/24, Gig0/1, Gig0/2
10   ITdepartment                     active    Fa0/2
20   HRdepartment                     active    Fa0/3
1002 fddi-default                     active
1003 token-ring-default               active
1004 fddinet-default                  active
1005 trnet-default                    active    ------------------------------
```

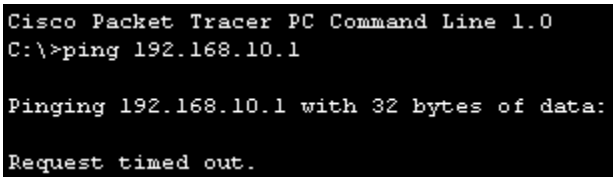
Switch 2

```
1    default                          active    Fa0/4, Fa0/5, Fa0/6, Fa0/7
                                                Fa0/8, Fa0/9, Fa0/10, Fa0/11
                                                Fa0/12, Fa0/13, Fa0/14, Fa0/15
                                                Fa0/16, Fa0/17, Fa0/18, Fa0/19
                                                Fa0/20, Fa0/21, Fa0/22, Fa0/23
                                                Fa0/24, Gig0/1, Gig0/2
10   ITdepartment                     active    Fa0/2
20   HRdepartment                     active    Fa0/3
1002 fddi-default                     active
1003 token-ring-default               active
1004 fddinet-default                  active
1005 trnet-default                    active
```

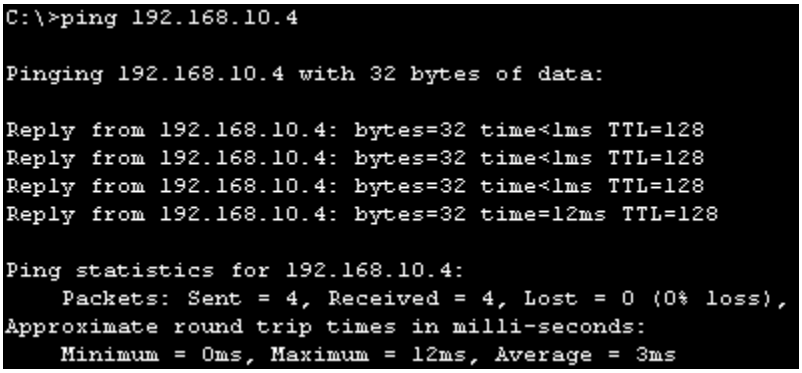
Switch 1 and switch 2 has a trunk on interface f0/0, static trunking.



Pinging PC0 and PC2 will work due to the trunk while Pinging other VLAN's wouldn't be possible.



Here we used PC1 to ping PC0



Here we used pc1 to ping pc3 which is on the other switch.