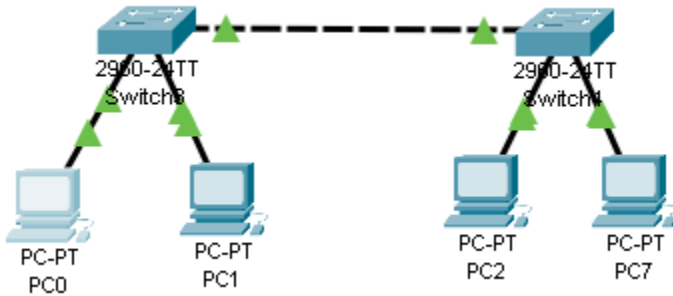


Vlan trunking using two switches (Day three – Trouble shooting using trunk)

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)

```

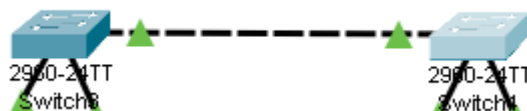
1  default          active  Fa0/4, Fa0/5, Fa0/6, Fa0/7
                               Fa0/8, Fa0/9, Fa0/10, Fa0/11
                               Fa0/12, Fa0/13, Fa0/14, Fa0/15
                               Fa0/16, Fa0/17, Fa0/18, Fa0/19
                               Fa0/20, Fa0/21, Fa0/22, Fa0/23
                               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 -----

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

Switch 2

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.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.1

Pinging 192.168.10.1 with 32 bytes of data:

Request timed out.
```

Here we used PC1 to ping PC0

```
C:\>ping 192.168.10.4

Pinging 192.168.10.4 with 32 bytes of data:

Reply from 192.168.10.4: bytes=32 time<1ms TTL=128
Reply from 192.168.10.4: bytes=32 time<1ms TTL=128
Reply from 192.168.10.4: bytes=32 time<1ms TTL=128
Reply from 192.168.10.4: bytes=32 time=12ms TTL=128

Ping statistics for 192.168.10.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 3ms
```

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