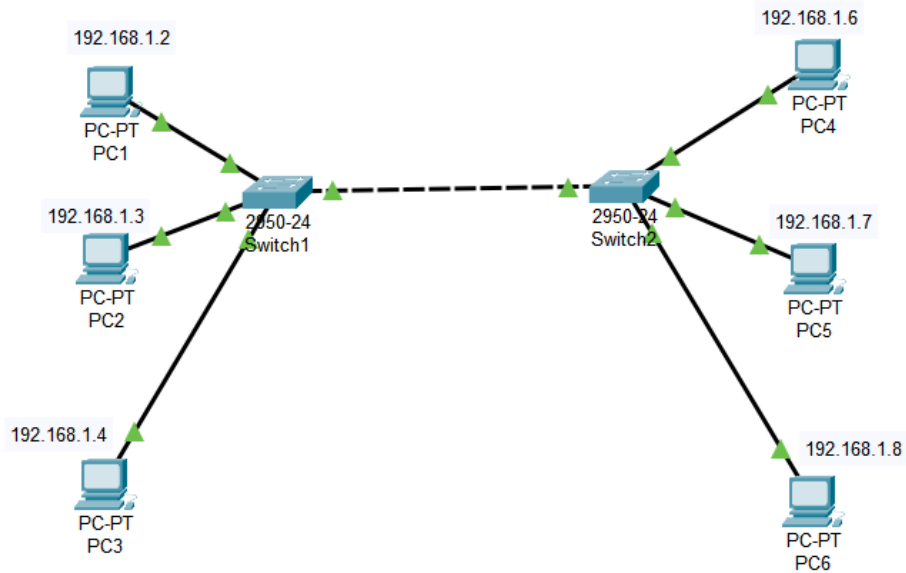


## Introduction to VLAN



4.

### SWITCH 1

```

Port      Vlans allowed on trunk
Fa0/1     2-4

Port      Vlans allowed and active in management domain
Fa0/1     2,3

Port      Vlans in spanning tree forwarding state and not pruned
Fa0/1     2,3

Switch#show vlan brief

VLAN Name                Status    Ports
-----
1    default                active    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
2    VLAN2                  active    Fa0/2, Fa0/3
3    VLAN3                  active    Fa0/4
1002 fddi-default          active
1003 token-ring-default    active
1004 fddinet-default        active
1005 trnet-default          active
Switch#

```

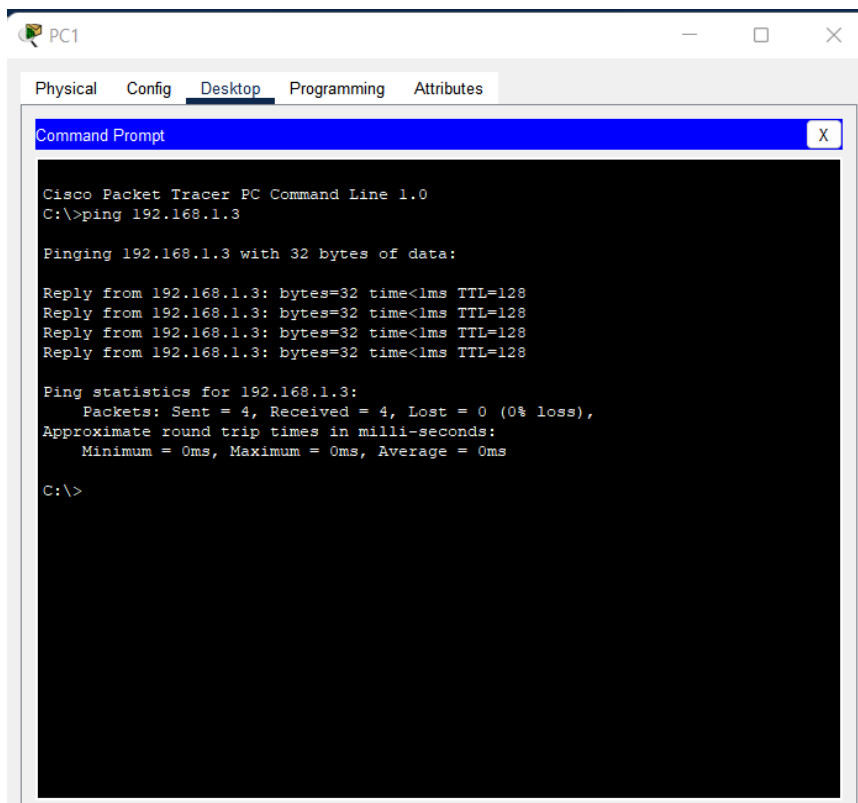
## SWITCH 2

```
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface FastEthernet0/2
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/1
Switch(config-if)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

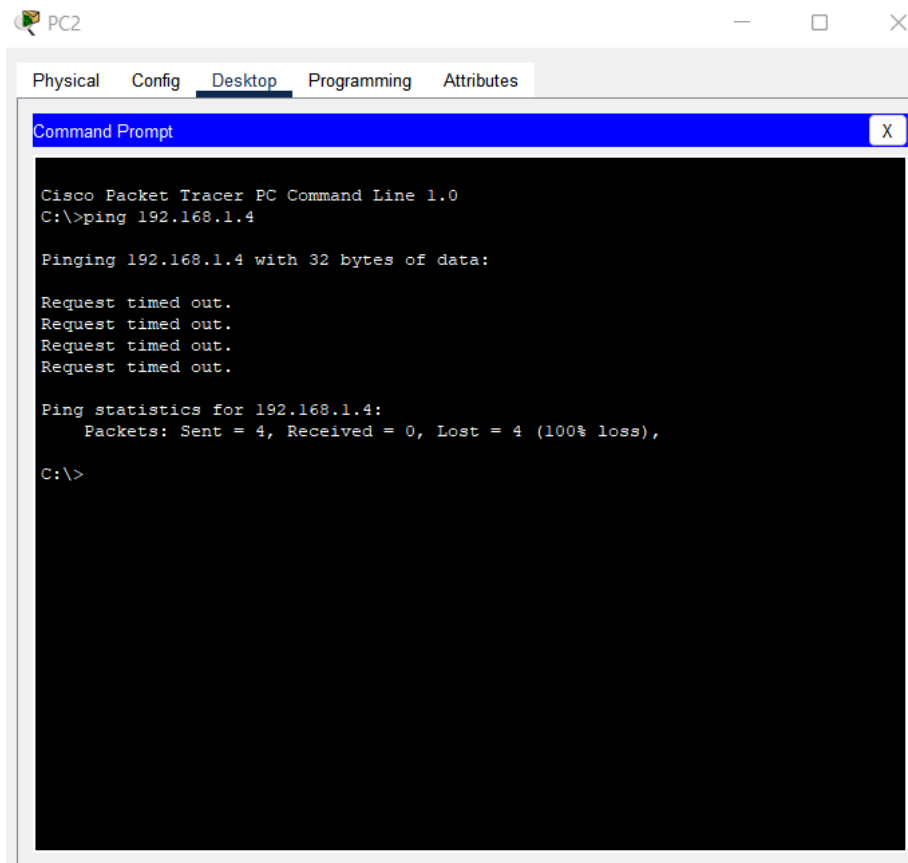
Switch#show vlan brief

VLAN Name                Status    Ports
-----
1    default                active    Fa0/5, Fa0/6, Fa0/7, Fa0/8
                                           Fa0/9, Fa0/10, Fa0/11, Fa0/12
                                           Fa0/13, Fa0/14, Fa0/15,
                                           Fa0/17, Fa0/18, Fa0/19,
                                           Fa0/20
                                           Fa0/21, Fa0/22, Fa0/23,
                                           Fa0/24
2    VLAN2                  active    Fa0/4
3    VLAN3                  active    Fa0/2, Fa0/3
1002 fddi-default          active
1003 token-ring-default    active
1004 fddinet-default        active
1005 trnet-default         active
Switch#
```

## 5. PC1 → PC2



PC2 → PC3



When try to ping between pc1 and pc2, since both computers has the same VLAN it is possible to do.

But when try to ping between pc2 and pc3, it is not possible to do because pc2 belongs to VLAN2 and pc3 belongs to VLAN3.

6) two switches are connected using copper cross over cable. In switch 1 and switch 2 fast Ethernet port1 is connected to each other and switchport mode is trunk.