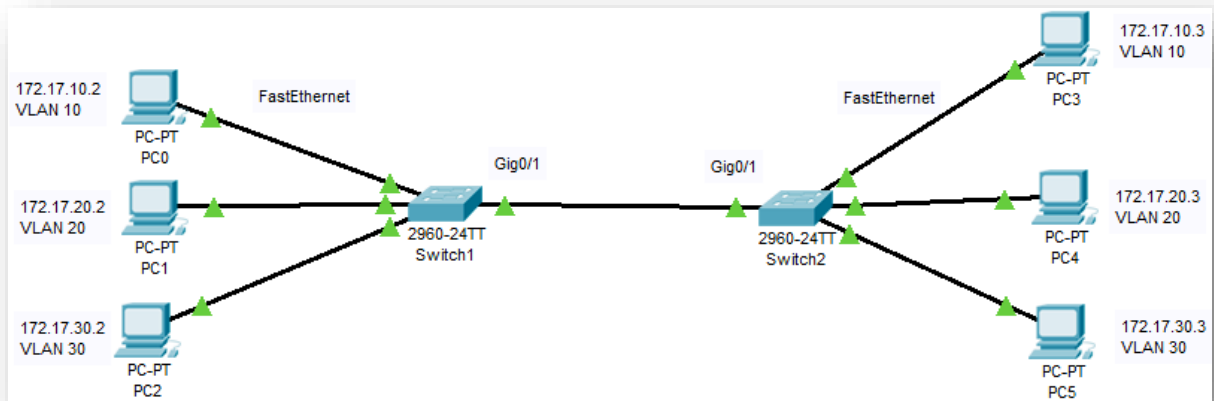**Scenario 5: A physical network having two LAN where each of them having three computers. The Two LANs are interconnected by a switch. We need to configure three VLANs having a computer from each physical LAN.**

<div align="center">

VLAN Switch Configuration

</div>

- Assign IP address to the PC as shown in the Topology Diagram

Note:
- Try to send simple packet between two machines within switch and across the switch.
- Before configuring VLAN type on each switch go to CLI and type *show vlan* see the default port configuration

On switch 1:

- **we are creating three VLAN 10, 20, 30 and assigning then a name.**

en

conf t | Entering Switch configuration Mode

vlan 10

name imageinglab

exit

vlan 20

name datasciencelab

exit

vlan 30

name iotcloudlab

exit

exit

show vlan

- **we are assigning interfaces of switch1 to created VLAN 10, 20, 30.**

  conf t
  interface f0/1
  switchport access vlan 10
  exit

  interface f0/2
  switchport access vlan 20
  exit

  interface f0/3
  switchport access vlan 30
  exit
  exit

Note: After configuring VLAN type *show vlan* see the assigned port configuration

On switch 2:

Note: before configuring VLAN type *show vlan* see the default port configuration

- **we are creating three VLAN 10, 20, 30 and assigning then a name.**

  en
  conf t
  vlan 10
  name imageinglab
  exit

  vlan 20
  name datasciencelab
  exit

  vlan 30
  name iotcloudlab
  exit
  exit

  show vlan

- **we are assigning interfaces of switch1 to created VLAN 10, 20, 30.**

  conf t
  interface f0/1
  switchport access vlan 10
  exit

  interface f0/2

```
switchport access vlan 20
exit

interface f0/3
switchport access vlan 30
exit
exit
```

Note: After configuring VLAN type ***show vlan*** see the assigned port configuration

Below steps are performed for trunking purpose:

- **On switch 1:**

```
en
conf t
interface g0/1
switchport mode trunk
switchport trunk allowed vlan 1-99
end

show interface ?
 you should See trun in the list

show interface trunk

show vlan
```

- **On switch 2:**

```
en
conf t
interface g0/1
switchport mode trunk
switchport trunk allowed vlan 1-99
end

show interface ?
show interface trunk
show vlan
```