**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.**

**A screenshot of a video game

Description automatically generated**

**VLAN Switch Configuration**

* 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

Entering Switch configuration Mode

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

**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