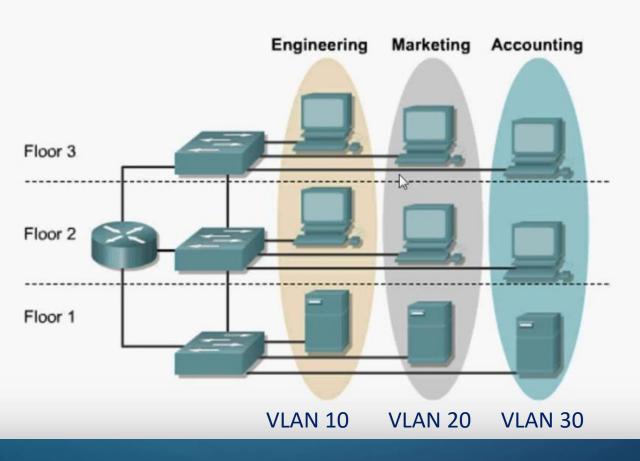
- VLAN is a group of devices on one or more LANs that are configured to communicate. It seems that they are attached to the same wire, when they are actually located on a number of different LAN segments. Because VLANs are based on logical instead of physical connections, they are extremely flexible.
- Using a switch we can create more than one network which depends upon the network.

- Benefits and of VLAN: -
  - -> Ease of management and troubleshooting.
  - -> Minimization of errors
  - -> Reduce number of routing table entries

# Vlan Implementation



- In the previous figure the computers in VLAN 10 can communicate with themselves without using the router.
- But if they want to communicate with other devices in VLAN 20/30 they'll communicate via router.

- Types of VLAN : -
  - -> Static VLAN : -

Based on port.

-> Dynamic VLAN : -

Based on MAC address

- Assigning Access Ports to a VLAN: Via which ports the switch is connected to PC is called Access Port and with port is used for connecting other switch is called Trunk Port.
- Enter interface configuration mode
  Switch#configure terminal
  Switch(config)#interface fastEthernet 0/1
- Configure the interface as an access port
  Switch(config-if)#switchport mode access
- Assign the access port to a VLAN
  Switch(config-if)#switchport access vlan 1

- How to configure a Trunk Port : -
- Enter interface configuration mode
  Switch(config)#interface FastEthernet0/4
- Configure the interface as Trunk port
  Switch(config)#switchport mode trunk

# END OF DAY 9

# NETWORKING (CCNA TRAINING)

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