Inter vlan routing:

Inter vlan routing refers to the moment of the packet across the network between host in different network segments. Inter vlan routing can be defined as a away to forward traffic between different vlan by implementing a router in a network. There are two ways in which inter vlan routing is categorized

1. Traditional inter vlan routing
2. Router on a stick

Traditional inter vlan routing :

In this type of inter vlan routing , a router is usually connected to the switch using multiple interfaces. The interface on the router are configured as the default gateways for the vlan configured on the switch.

When a user send a message to a user connected to a different vlan ,the message moves from their nodes to the access port that connect the router on their vlan. When the router receives the packets, it examines the packet’s destination ip address and forward to the correct network using the access port for the destination VLAN.

Router on a stick:

The router is connected to a switch using a single interface. The switchport connecting to a router is configured as a trunk link. The single interface on a router is then configured with multiple ip address that correspond to the vlans on the switch.