

L2 Switch: will forward the information based on only MAC-Address

L3 Switch: will ~~not~~ forward the information based on both MAC-Address and I.P Address as well.

### L3 Switch

→ perform routing

→ Basic of IP

\* L3 Switch Can forward traffic faster than Router

\* more ports will be more

\* L3 Switch is cheaper than router.

\* Switch Can forward traffic from one port to other port by using Ethernet links (no serial links)

\* Routing table is smaller than compared to router, and

\* This smaller routing table can handle ~~some~~ fast forward traffic internally.

\* As a result, prefix handling is very less compared to Router

### Router

→ perform routing

→ Basic of IP

\* L3 router can forward traffic slower than L3 Switch

\* only few ports are available

\* Costly than switch

\* Router can perform routing on multi technology ports using serial ports.

\* Routing table is very ~~large~~ huge and ~~can~~ Capable of handling more than lakhs of prefixes.

This kind of handling is required for larger networks

\* on L3 switch, many of these features are not supported like NAT, TUNNEL etc.....

\* Router can be used as edge technology as well like : NAT, Tunnel, firewall etc.....