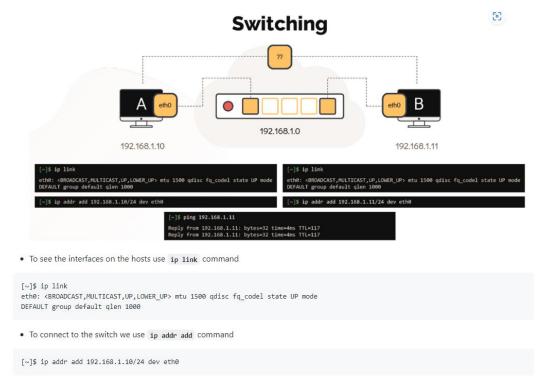
## **Switching & Routing**

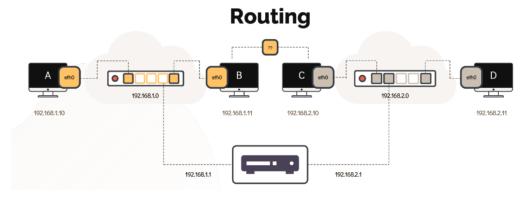
## Switching

• Switching helps to connect the interface within same network.



## Routing

• Router helps to connect to two seprate networks together.



• To see the existing routing table configuration run the route command.

[~]\$ route Kernel IP routing table Destination Gateway Genmask Flags Metric Ref Use Iface

• To configure a gateway on system B to reach the system on other network run

[~]\$ ip route add 192.168.2.0/24 via 192.168.1.1

[~]\$ route

Kernel IP routing table Destination Gateway Genmask Flags Metric Ref Use Iface 192.168.2.0 192.168.1.1 255.255.255.0 UG 0 0 0 eth0

• To see the ip addresses assign to interfaces use

[~]\$ ip addr

•

[~]\$ ip route

 $\bullet \ \ \text{To make this changes permanent you must set them in } \ \ \textbf{/etc/network/interfaces} \ \ \text{file}.$