

Network Devices : Hubs, Switches & Routers

Soumis par CCNA

26-05-2008

Dernière mise à jour : 31-05-2008

-

Hubs

-

Used to communicate on the same network

-

Doesn't identify MAC addresses (broadcasts all the ports) (Layer 1)

-

Doesn't provide equal speed out of each port

-

Uses single broadcast domain & single collision domain

-

Doesn't implement any security

-

Switches

-

Used to communicate on the same network

-

Works on MAC addresses (Layer 2)

-

Provides equal speed out of each port

-

Uses single broadcast domain & multiple collision domains

-

Creates a CAM table (Content Addressable Memory) to speed up communication

-

Uses an ASIC chip as a hardware platform (Application Specific Integrated Circuit)

-

Routers

-

Used to communicate over different networks

-

Works on IP addresses (Layer 3)

-

Chooses always the shortest path to reach a destination

-

Implements load balancing

-

Creates a routing table