



Independent University, Bangladesh (IUB)
**Department of Computer Science &
Engineering**
Data Communication & Networking (CSE 316)



Experiment 0: Learning Cisco Routers, Switches, Cables, Packet Tracer Software

Objective:

1. Basic information on Cisco Routers and Switches
2. Connection between PC, Routers and Switches with different cables
3. Introduction to Cisco Packet Tracer Software

Routers and Switches:



Router



Switch



Figure 1: Different router/switch interfaces/ports



Figure 1: Cisco Router/Switch Chassis

Connecting Cables:



Figure 3: Console Cable



Figure 4: Ethernet/RJ45 Cable

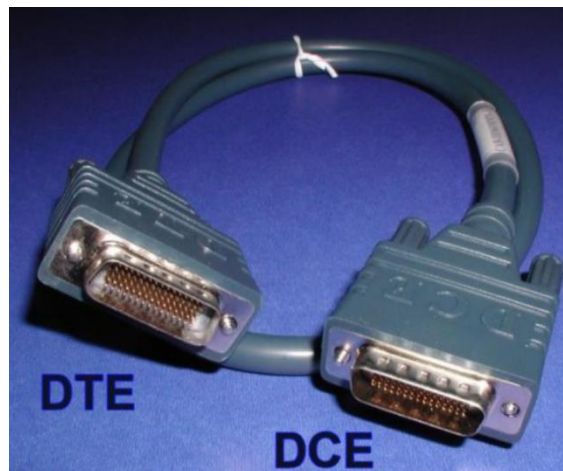


Figure 5: Serial Cable

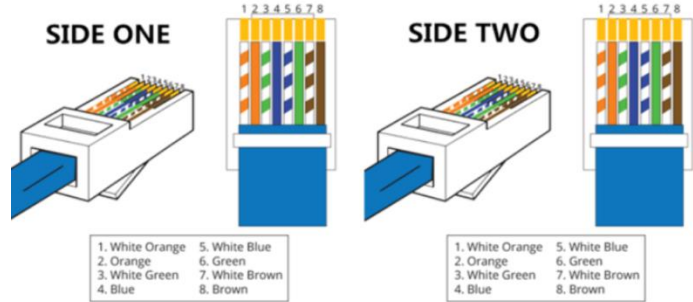


Figure 6: Optical Cable

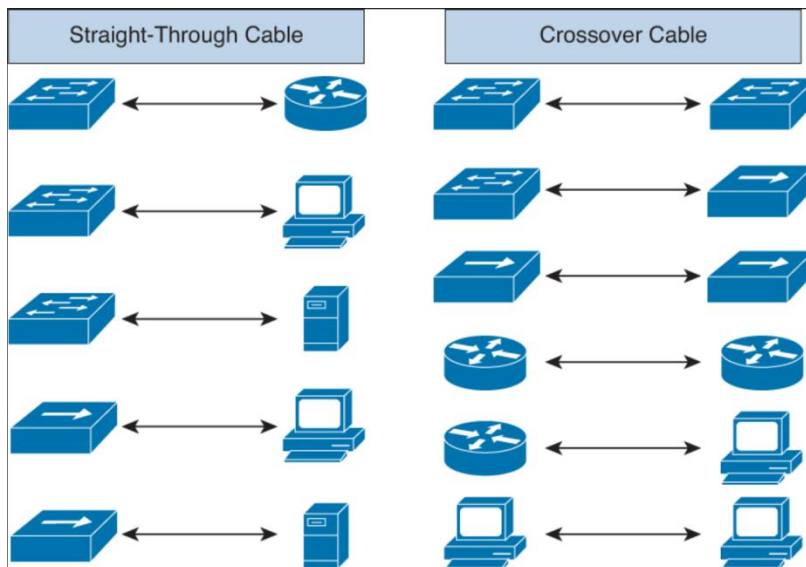
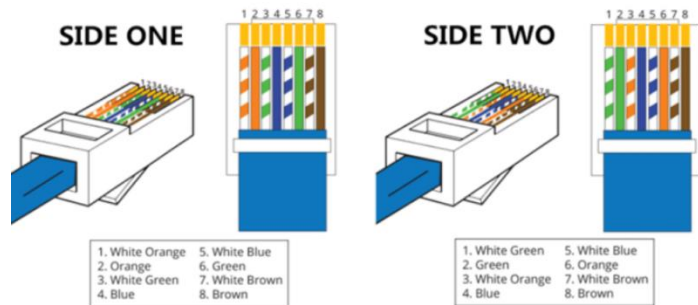
RJ45 Cables:



STRAIGHT-THROUGH



CROSSOVER



Cisco Packet Tracer Software:

https://www.netacad.com/courses/packet-tracer

Log In

Cisco Packet Tracer

An innovative and powerful networking simulation tool used for practice, discovery and troubleshooting.

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How to download Packet Tracer

To download Packet Tracer, follow these steps to create your Networking Academy registration:

- Click the 'Enroll to Download Packet Tracer' button
- Enroll in the Introduction to Packet Tracer course
- Complete your Networking Academy registration**
- Launch the Introduction to Packet Tracer course
- Download instructions are found within the course

Enroll to download Packet Tracer

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Back [Root] New Cluster Move Object Set Tiled Background Viewport Environment: 05:30:30

Time: 01:46:54 Power Cycle Devices Fast Forward Time Realtime

Automatically Choose Connection Type