



Connecting a Network

Norazrena Abu Samah Faculty of Education



Cabling Installation Tools & Accessories

Network cabling installation tools and accessories includes:

- 1. Cutters, Scissors, Pliers
- 2. Compression and Crimp Tools
- 3. Fiber Optic Tools
- 4. Insertion Extraction Tools
- 5. Loopback Testers
- 6. Network Testers
- 7. Punch Down Tools
- 8. Strippers
- 9. Tool Sets







Networking Software

- > Two types of networking software:
 - Network operating system (NOS)
 To allow computers to communicate with each other
 - Shared network applicationTo allow users to access shared programs

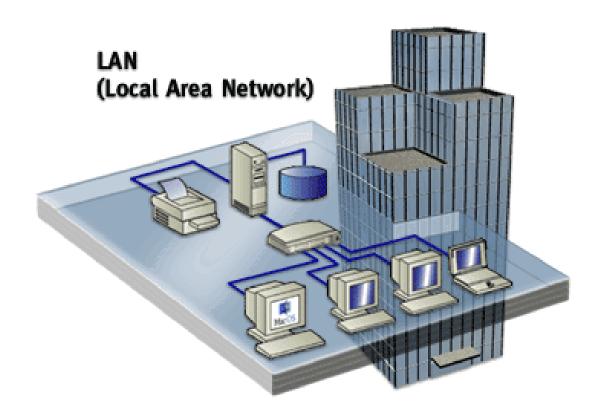


Concept of LAN Installation

- In order to install LAN:
 - Identify the number of devices to be connected
 - 2. Determine whether the internet access is needed
 - 3. Measure the distance of all devices
 - 4. Set up the router / switch
 - 5. Connect all devices using cables



Concept of LAN Installation





Concept of LAN Monitoring

- Monitoring of LAN in to ensure the network is always running at the greatest performance
- The monitoring can be done using software such as:
 - 1. Network Performance Monitor by SolarWinds
 - 2. PRTG Network Monitor by Paessler
 - 3. Nagios XI (Enterprise Server and Network Monitoring Software) by Nagios



Concept of LAN Troubleshooting

- > Steps for LAN troubleshooting:
 - 1. Identify the exact problem or issue
 - 2. Isolate the cause
 - 3. Plan to solve the problem
 - 4. Implement the planned solution
 - 5. Test to verify the problem has been resolved



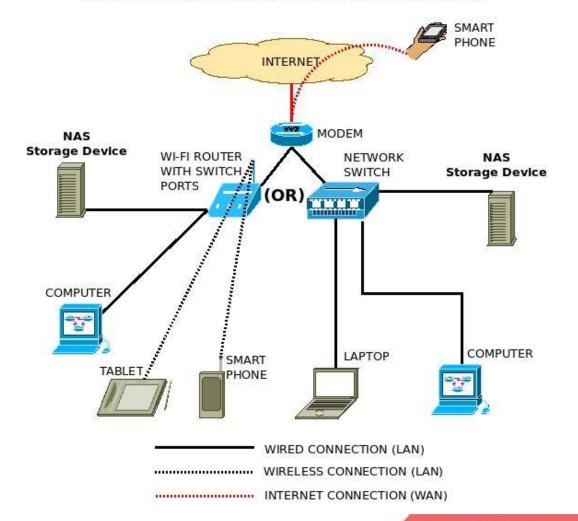
Wireless Networking

- The installation of LAN and wireless LAN is almost the same, however wireless LAN does not using cables
- Router is use in wireless LAN



Wired and Wireless LAN

CONNECTIVITY ARCHITECTURE OF ENTRY-LEVEL LAN SYSTEM





THANK YOU