Chapter 1

Introduction to Networking

Networking

Computers can communicate with one another using certain protocols and technologies like Network Internet Card (NIC), modems, etc. The internet is one illustration.

There are 3 types of internet connection:

- ❖ Pyhsical : via NIC or modem.
- ❖ Logical : Protocols, such as TCP/IP (Transmission Control Protocol/Internet Protocol)
- ❖ Application : Using a browser, for example IE or Netscape Navigator

Bagian-bagian PC :

- ❖ Resistor : Obstacle.
- ❖ Transistor : Signal amplification, circuit opening and shutting.
- ❖ Capacitor : Saving energy.
- ❖ Integrated Circuit : Collection of transistors.
- ❖ Expansion slot
- ❖ Floppy Disk
- ❖ Hard Disk
- ❖ CD-ROM
- ❖ Video & Audio port
- ❖ Serial Port
- ❖ Parallel Port
- ❖ Motherboard

For router management, a PC is connected to the router console using the serial port.

A modem, which can be internal or external, is necessary for internet connectivity.

The local internet connection can use the NIC, which needs to be considered is:

- ❖ Protokol (ethernet, token ring, FDDI)
- ❖ Type of media (coaxial, wireless, twisted pair)
- ❖ Type of bus (PCI, ISA)

For notebooks, you can use PCMCIA, while the network connection with PING (Pocket Internetwork Gropher) is connected or not.

Network Math

- ❖ Basis 2 (Binary) : 1100 0000
- ❖ Basis 10 (Decimal) : 192
- ❖ Basis 16 (Hexadecimal) : C2

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