

COMPUTER NETWORK



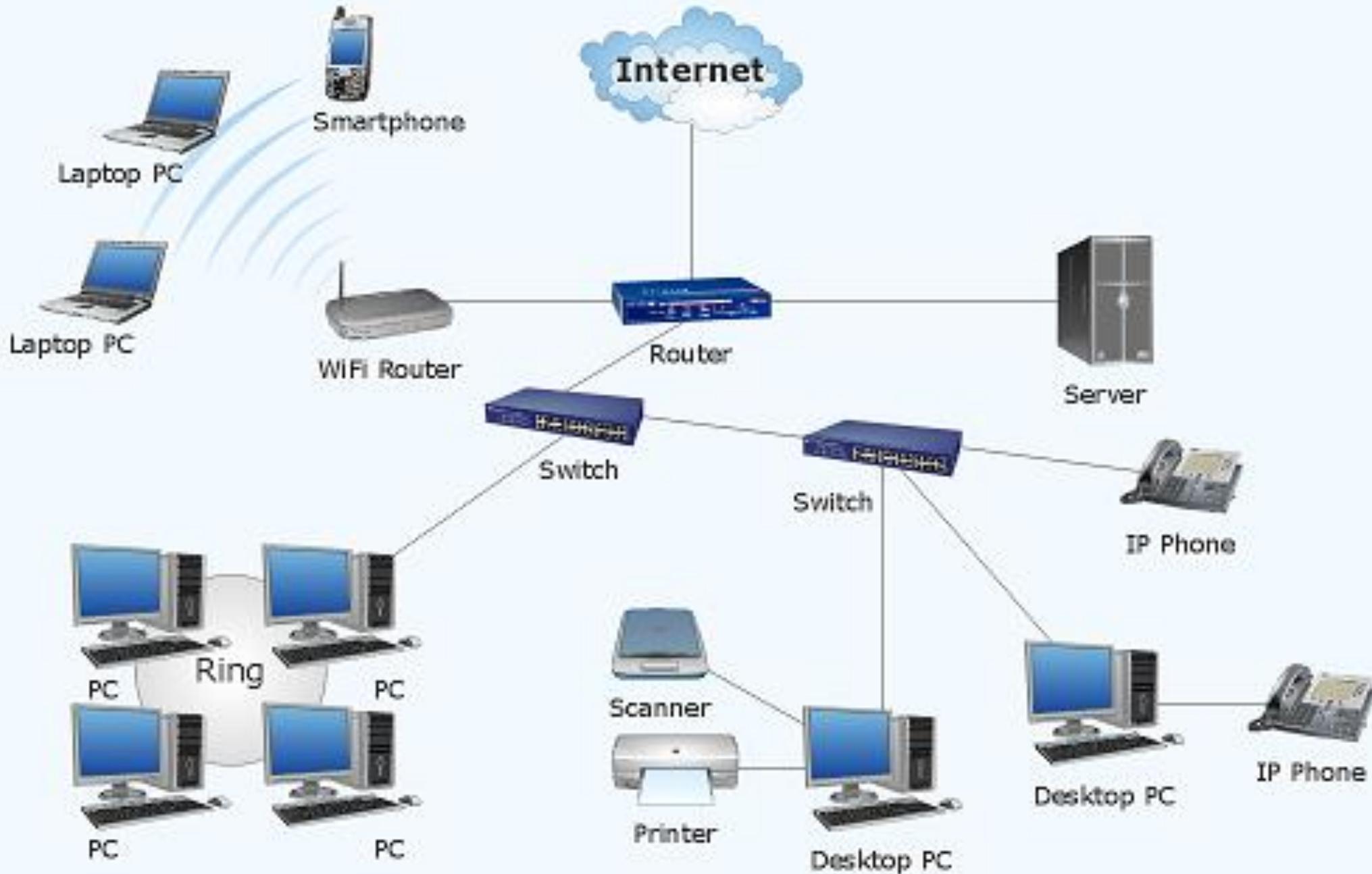
DEFINITION, DIS/ADVANTAGES
& SERVICES

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COMPUTER NETWORK

Computer Network is a collection of distributed intelligent machines that are connected with each other with transmission media for the purpose of data sharing, communication and sharing of computer resources.



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ADVANTAGES OF COMPUTER NETWORKING

- **Management** - The computers, staff and information can be well managed
- **Accessibility** - A network provides the means to exchange data among the computers and to make programs and data available to people
- **Resource Sharing** - It permits the sharing of the resources of the machine
- **Backup** - Networking also provides the function of back-up.
- **Flexible working environment** - Networking provides a flexible working environment. Employees can work at home by using office computer through networks.

ADVANTAGES OF COMPUTER NETWORKING

- Sharing devices such as printers saves money.
- *Software* licenses are likely to be cheaper than buying several standalone licenses.
- Files can easily be shared between users.
- *Network* users can communicate by *email* and *instant messenger*.
- Security is good - users cannot see other users' files unlike on stand-alone machines.
- *Data* is easy to *backup* as all the data is stored on the *file server*.

DISADVANTAGES OF COMPUTER NETWORKING

- Purchasing the network cabling and file servers can be expensive.
- Managing a large network is complicated, requires training and a network manager usually needs to be employed.
- If the file server breaks down the files on the file server become inaccessible. Email might still work if it is on a separate server. The computers can still be used but are isolated.
- *Viruses* can spread to other computers throughout a computer network.
- There is a danger of *hacking*, particularly with wide area networks. Security procedures are needed to prevent such abuse, eg a *firewall*.

NETWORK SERVICES

- 1. File Services:** This includes file transfer, storage, data migration, file update, synchronization and achieving.
- 2. Printing Services:** This service produces shared access to valuable printing devices.
- 3. Message Services:** This service facilitates email, voice mails and coordinate object oriented applications.
- 4. Application Services:** This services allows to centralize high profile applications to increase performance and scalability
- 5. Database Services:** This involves coordination of distributed data and replication.

The image features a dark gray background with white, stylized circuit board traces in the corners. These traces consist of straight lines and small circles, resembling electronic components or connections. The text is centered in the middle of the image.

**STAY SAFE N INSIDE
YOUR HOME**