1.1 What is a Network?

A network consists of two or more computers that are linked in order to share resources (such as printers and CDs), exchange files, or allow electronic communications. The computers on a network may be linked through cables, telephone lines, radio waves, satellites, or infrared light beams.

In the world of Information Technology (IT) information is the building block for effective communication. Communication is a medium that helps us to drive our day to day professional and personal operations. Where computer networking acts as the base of everything as the best and most important IT solutions. Below is a list of points that we do with the help of computer networks, or things that we benefit from with the help of computer networks or that have become possible or effective due to computer networks. Provides the best way of business communication.

* + Streamline communication. facilitate quick and easy communication
  + Cost-effective resource sharing. reduces the need for duplicate resources and saves costs
  + Improving storage efficiency and volume. Centralized storage solutions
  + Cut costs on software. Centralized software deployment and licensing management
  + Cut costs on hardware. Shared hardware resources and centralized management
  + Utilizes Centralized Database. easy access to data for authorized users across the network
  + Increase in efficiency. automate processes, streamline workflows, enable faster data access
  + Optimize convenience and flexibility. can access network resources from any location
  + Allows File sharing.
  + sharing of peripherals and internet access. Multiple users can share devices like printers
  + Network gaming. multiplayer gaming experiences
  + Voice over IP (VoIP). voice communication over a network
  + Media Center Server. Netflix, etc
  + Centralized network administration, meaningless IT support.
  + Flexibility. Networks can adapt to changing needs
  + Allowing information sharing.
  + Supporting distributed processing.
  + User communication. email, messaging, and video conferencing etc
  + Overcoming geographic separation. connect users across different locations, regardless of geographical barriers.