

## Basics

### Introduction

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Since the 1980s, the use of the Internet has increased significantly. This has led to a growing number of users who are using the Internet to access information and services. The Internet has become a global network of computers and servers that are connected together. This network allows users to communicate and share information across the world. The Internet has also become a major source of information and entertainment. It has changed the way we live and work, and it has become an essential part of our lives.

#### 1. Network types

There are two main types of networks: local area networks (LANs) and wide area networks (WANs).

##### 1.1 Local Area Networks (LANs)

- They are used to connect computers and devices within a small geographic area.
- They are typically used in homes, schools, and businesses.
- They are usually owned and managed by a single organization.
- They are often used to share files and resources between computers.
- They are usually connected to the Internet via a router.

##### 1.2 Wide Area Networks (WANs)

- They are used to connect computers and devices across a large geographic area.
- They are typically used by large organizations and governments.
- They are often used to connect multiple LANs.
- They are usually owned and managed by multiple organizations.
- They are often used to share files and resources between computers across the world.

##### 1.3 Cloud Networks

- They are used to connect computers and devices to a central server or cloud.
- They are typically used by businesses and organizations.
- They are often used to store and access data and applications.
- They are usually managed by a third party.

##### 1.4 Mobile Networks

Mobile networks are used to connect mobile devices such as smartphones and tablets. They are typically used to access the Internet and other services. Mobile networks are often used to provide services to users who are on the move. They are also used to provide services to users who are in remote areas. Mobile networks are becoming increasingly important as more people use mobile devices.

##### 1.5 Satellite Networks

Satellite networks are used to provide Internet access to remote areas.

##### 1.6 Wireless Networks

Wireless networks are used to connect computers and devices without the need for physical connections. They are typically used to provide Internet access to users who are on the move. Wireless networks are becoming increasingly important as more people use mobile devices. They are also used to provide services to users who are in remote areas.