

INTRODUCTION TO COMPUTER NETWORKS

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WHAT IS COMPUTER NETWORK?

- **A computer network is a set of nodes connected by communication links.**
- **Nodes are the components, capable of sending and receiving data. Examples include computer servers, printers, security cameras, switches, bridges, etc.**

- **Communication Links are used for resource sharing.**
- **Communication Links are two types.**
- **Wired(Cable)**
- **Wireless(Air)**

BASIC CHARACTERISTICS OF COMPUTER NETWORK

- ★ Fault Tolerance
- ★ Scalability
- ★ Quality of Service (QoS)
- ★ Security

FAULT TOLERANCE

The ability to:

1. Continue working despite failures
2. Ensure no loss of service

SCALABILITY

The ability to :

1. Grow based on the needs
2. Have good performance after growth

QUALITY OF SERVICE (QoS)

The ability to:

1. Set Priorities
2. Manage data traffic to reduce data loss, delay etc.,

SECURITY

The ability to prevent:

- ★ Unauthorized access
- ★ Misuse
- ★ Forgery

The ability to provide:

- ★ Confidentiality
- ★ Integrity
- ★ Availability