

# CSIM: IT ESSENTIALS

## Chapter 5: Networking Concepts

### 1. Types of Networks

A network is a group of connected devices that communicate with each other. Networks are classified based on their size and purpose:

- **PAN (Personal Area Network):** Very small, for personal devices like Bluetooth headsets, smartwatches, and smartphones.
- **LAN (Local Area Network):** Covers a small area like a home, office, or school. It's fast and reliable. Example: School computer lab.
- **WAN (Wide Area Network):** Connects devices across large distances (e.g., the internet). Slower than LAN but allows global communication.

**Key Point:** The internet itself is the largest WAN.

### 2. TCP vs UDP (Transport Layer Protocols)

These protocols manage how data is sent over networks:

- **TCP (Transmission Control Protocol)** – Reliable, ensures data is received in the correct order.
  - Used for **emails, web browsing, and file transfers** (where accuracy is important).
  - **Example:** When you download a file, TCP ensures that every part of the file reaches your device correctly.
- **UDP (User Datagram Protocol)** – Faster but less reliable, doesn't confirm if data arrives.
  - Used for **live streaming, gaming, and video calls** (where speed matters more than accuracy).
  - **Example:** When watching a live stream, minor glitches are okay as long as the video keeps playing smoothly.

# Chapter 5 Networking Essentials

**Clifford Lane**



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