

# **Network Security**

## **Introduction to Network Security**

Network security protects data and devices from threats, unauthorized access, and system disruptions.

It involves policies, practices, and tools aimed at safeguarding communication networks.

## **Common Threats**

Examples of security threats include malware, phishing, denial-of-service attacks, and data breaches.

Attackers exploit system vulnerabilities to compromise confidentiality, integrity, or availability.

## **Security Measures**

Firewalls, encryption, authentication systems, and intrusion detection tools are essential defense mechanisms.

Regular updates and vulnerability assessments help maintain robust security.

## **Importance of Network Security**

With increasing digital reliance, strong network security ensures business continuity and user trust.

It protects sensitive data and prevents financial and reputational damage.