

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.