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Day 1 - INTRO TO CYBERSECURITY

- Definition
- CIA
- Types of threats
- Levels of Protection

Cybersecurity

practice of protecting systems, networks, and data from digital attacks. It includes ensuring CIA is maintained of data.

Core Security Principles (CIA)

- 1. Confidentiality Only the right people access data
- 2. Integrity Data remains accurate and unaltered
- 3. **Availability** Systems and data are accessible when needed

Types of Threats

- Malware: viruses, worms, trojans, ransomware
- Phishing: fake emails/websites that look like real ones to steal data
- Social Engineering: manipulating people, e.g., pretending to be IT support
- DDoS Attacks: overloading systems to make them unavailable
- **Zero-Day Attacks:** exploiting previously unknown vulnerabilities (flaw that hasn't been patched yet)

Levels of Protection:

 Personal: safeguard YOUR identity, data, and computing devices; protect from identity theft

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- 2. **Organizational:** protect the ORGANIZATION'S reputation, data and customers; protecting financial and data assets
- 3. **Government:** national security, economic stability, and the safety and wellbeing of citizens

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