

# Introduction to Cyber Security - Beginner's Guide

## Understanding Cyber Threats

### Overview of Cyber Threats:

Cyber threats are malicious attempts to disrupt, damage, or gain unauthorized access to information systems. They exploit vulnerabilities in systems, networks, and human behavior.

### Examples of Real-Life Cyber Attacks:

#### 1. WannaCry Ransomware Attack (2017):

- A global ransomware attack that affected over 200,000 computers.
- Encrypted user files and demanded payment in Bitcoin for decryption.

#### 2. SolarWinds Hack (2020):

- A supply-chain attack targeting government agencies and businesses.
- Infiltrated systems via a compromised software update.

#### 3. Target Data Breach (2013):

- Attackers accessed payment information of 40 million customers.
- Exploited vulnerabilities in third-party vendor systems.

### Prevention Tips:

- Regularly update software and systems to patch vulnerabilities.
- Use strong, unique passwords and enable Two-Factor Authentication (2FA).
- Be cautious with emails and links to avoid phishing scams.
- Employ antivirus and firewall protection to monitor network activity.

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By learning from past incidents and adopting proactive measures, you can better protect yourself and your organization from cyber threats.