A T T A C K

Cyber Attack

AND

Types of Cyber Attacks

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Cyber Attack

- An **attack** is when someone actually tries to harm a system using threats.
- 📌 Think of it like this:
- **Attack = The actual event.**
- **Example**: A hacker guesses your weak password and hacks into your account (attack).

Types of Cyber Attacks

- (DoS) AND (DDOS)
- Man-in-the-Middle (MitM) Attack
- SQL Injection
- Cross-Site Scripting (XSS)
- Brute Force Attack
- Ransomware Attack
- Credential Stuffing
- Supply Chain Attack

(DoS) AND (DDOS)

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- 🌐 **What it is:** Hackers flood a website with too much traffic to make it crash.

- 💡 **Example in real life:**

- A hacker sends millions of fake visitors to a website, making it go offline.

- 🔹 DDoS is more dangerous because it uses multiple computers to attack at once.

2 **Man-in-the-Middle (MitM) Attack**

- 🕵️ **What it is**: A hacker secretly intercepts communication between two people.
- 💡 **Example in real life:**
- You connect to free WiFi at a café, but a hacker is secretly reading your messages.

3 SQL Injection

- 💾 **What it is**: A hacker enters harmful code into a website's database to steal or change data.
- 💡 **Example in real life:**
- A hacker types " OR 1=1 -- in a login form to bypass authentication.

4 Cross-Site Scripting (XSS)

- 📝 **What it is:** Hackers insert malicious scripts into web pages that run when users visit them.

- 💡 **Example in real life:**

- A hacker adds a fake login form to a website that steals your username and password.

5 Brute Force Attack

- 🔑 **What it is:** Hackers try every possible password until they find the right one.

- 💡 **Example in real life:**

- A hacker tries "password123," "admin123," "qwerty" until they find your password.

6 **Ransomware Attack**

- 💰 **What it is:** Hackers lock your files and demand money to unlock them.

- 💡 **Example in real life:**
- The WannaCry ransomware attack affected hospitals and companies worldwide

7 **Credential Stuffing**

- 🔐 **What it is:** Hackers use leaked usernames and passwords from one site to log in to another.

- 💡 **Example in real life:**

- If your Facebook password gets leaked, hackers try to use it to log in to your Gmail.

8 **Supply Chain Attack**

- 🏭 **What it is:** Instead of attacking a big company directly, hackers attack a smaller supplier first.

- 💡 **Example in real life:**

- Hackers insert malware into a software update, which is then sent to all users.

How to Protect Yourself from Threats & Attacks

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- ✔️ Use strong, unique passwords for every account.
- ✔️ Turn on multi-factor authentication (MFA) for extra security.
- ✔️ Avoid clicking on suspicious emails and links.
- ✔️ Keep your software and antivirus updated.
- ✔️ Use firewalls and VPNs for secure internet browsing

Final Thoughts

- ✅ Threat = Possible danger.
- ✅ Attack = Real harm happening.