

# CYBER THREATS

Cyber threats refer to malicious activities aimed at compromising the integrity, confidentiality, or availability of information systems, networks, or data. These threats can take many forms, including:

1. **Malware:** Malicious software like viruses, worms, trojans, ransomware, and spyware designed to damage, disrupt, or gain unauthorized access to computer systems.
2. **Phishing:** Deceptive attempts to acquire sensitive information such as usernames, passwords, and credit card details by pretending to be a trustworthy entity in electronic communications.
3. **Denial of Service (DoS) and Distributed Denial of Service (DDoS) Attacks:** Efforts to overwhelm a system, network, or website with excessive traffic, rendering it unusable.
4. **Man-in-the-Middle (MitM) Attacks:** Interception of communication between two parties by a malicious actor who can alter, intercept, or steal the data being exchanged.
5. **SQL Injection:** Exploitation of vulnerabilities in a web application's database layer by inserting malicious SQL queries to access or manipulate data.
6. **Zero-Day Exploits:** Attacks targeting vulnerabilities in software that are unknown to the vendor or unpatched, giving the attacker a window of opportunity to exploit.
7. **Advanced Persistent Threats (APTs):** Prolonged and targeted cyberattacks in which an intruder gains access to a network and remains undetected for an extended period, often to steal sensitive data.

8. **Insider Threats:** Threats that come from within an organization, often by disgruntled employees or contractors who have access to sensitive data and systems.
9. **Ransomware:** A type of malware that encrypts the victim's data and demands a ransom for its release, often leading to significant financial loss and operational disruption.
10. **Social Engineering:** Techniques used to manipulate individuals into divulging confidential information, such as passwords or financial data, often through psychological manipulation rather than technical hacking.