

# **Celebration of Cyber Jaagrookta (Awareness) Diwas (CJD)**

**(on the first Wednesday of every month  
commencing April,2022 onwards)**

**Central Mine Planning & Design Institute Ltd.  
RANCHI**



## What is a Cyber Attack?

**It's a malicious and deliberate attempt to breach information systems in order to benefit from disrupting the victims' networks.**

## **Broad types of Cyber Attacks**

### **Un-targeted cyber attacks**

In un-targeted attacks, attackers indiscriminately target gullible devices, services and users. There's no specific target and machines or services with vulnerabilities are attacked. Internet, by design, indirectly aids this.

### **Targeted cyber attacks**

In a targeted attack, devices are singled out because of specific interest in them. The groundwork for the same may take time, but a targeted attack is often more damaging than an un-targeted one.

## Malware

- Malware describes malicious software like spyware, ransomware, viruses, and worms. Malware breaches a network through a vulnerability, usually when a user clicks a dangerous link or email attachment which in turn installs risky software.

## Phishing

- Phishing is the act of sending fraudulent communications that appear to come from a reliable source. Typically email is used. The goal is to steal sensitive information or to install malware on the victim's machine. Phishing is a very common cyber threat.

## MiM

- Man-in-the-middle (MiM) attacks, also known as eavesdropping attacks, occur when attackers insert themselves into a two-party transaction with the intention of interrupting the traffic to steal data.
- Two common points of entry for MitM attacks:
  - 1. On not so secure public Wi-Fi, attackers can insert themselves between a visitor's device and the network.
  - 2. On an infected device, an attacker can install software to steal information.

## DoS

- A denial-of-service attack bombards systems, servers, or networks with excessive traffic to consume resources and bandwidth. As a result, the system struggles to fulfill legitimate requests. When multiple compromised devices are used to launch this attack, that's called distributed-denial-of-service (DDoS) attack.

## Insider Threat

- An insider threat does not involve a third party but an insider. Usually, it's an individual from within the organization who has lots of information on the organization. Insider threats have the potential to cause serious disruptions.

## Zero-Day Exploit

- A Zero-Day Exploit happens after the announcement of a new network vulnerability which has no immediate solution. The vendor notifies the vulnerability so that the users become aware. Usually, this news also reaches the attackers.

## Drive-by Attacks

- In these types of attacks, hackers insert malicious scripts into various websites and end up getting access to all the confidential documents of the users who visit the websites.

## Brute Force

- It's a method of randomly trying out different passkeys or passwords for unlocking the victim's system. It is one of the oldest types of cyber attacks and is still prevalent.

**This campaign shall  
continue.....**

