**CTF Challenge: Malware Threats**

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**What are Malware Threats?**

Malware threats are malicious software programs designed to harm computer systems and networks. They come in various forms, each with its own capabilities and goals. Here's a breakdown of some common malware threats:

* **Viruses:** Self-replicating programs that attach themselves to legitimate files and spread when those files are executed. They can corrupt or delete files, disrupt system operations, and even steal data.



* **Worms:** Similar to viruses, worms can self-replicate but exploit network vulnerabilities to spread from one computer to another. They can quickly overwhelm networks and cause significant disruption.
* **Trojan Horses:** Disguised as legitimate software, Trojan horses trick users into installing them. Once installed, they can steal data, install other malware, or disrupt system functions.
* **Ransomware:** This type of malware encrypts a victim's files, making them inaccessible. Ransomware attackers then demand payment to decrypt the files.
* **Spyware:** Software designed to steal personal information, browsing history, or other sensitive data from a victim's device. Spyware often runs silently in the background without the user's knowledge.



* **Adware:** While not technically malicious, adware bombards users with excessive and intrusive advertisements. It can slow down system performance and be a nuisance.
* **Keyloggers:** These programs record every keystroke a user types, allowing attackers to steal passwords, credit card information, and other sensitive data.
* **Rootkits:** Grant attackers privileged access to a computer system, allowing them to install other malware, steal data, or take control of the system entirely.

# **Capture the Flag (CTF) Challenges**

Flag 1. What type of malware encrypts files and demands payment?

Answer: Ransomware

Flag Captured

Flag 2: Which malware type records keystrokes to steal sensitive data?

Answer: Keyloggers

Flag Captured

Flag 3: What type of malware disguises itself as legitimate software?

Answer: Trojan

Flag Captured

Flag 4: Which malware bombards users with excessive advertisements?

Answer: Adware

Flag Captured