

## Hacks

### 1. Types of Viruses

Viruses are malicious programs that infect files and systems. Common types include:

File Infector Virus - Attaches to executable files (.exe, .dll).

Boot Sector Virus - Infects the master boot record (MBR) of a disk.

Macro Virus - Targets documents (MS Word, Excel) using macros.

Polymorphic Virus - Changes its code to evade detection.

Resident Virus - Hides in RAM and activates when programs run.

Multipartite Virus - Spreads using multiple attack methods (files, boot sector).

Ransomware - Encrypts files and demands ransom for decryption.

### 2. Creating a Virus using HTTP RAT Trojan Tool

⚠ Disclaimer: Creating or distributing malware is illegal and unethical. This is for educational awareness only.

Steps (For Ethical Testing & Research):

Download HTTP RAT - A remote access Trojan (RAT).

Configure the Server - Enter attacker's IP and port.

Generate Payload - Creates a disguised executable file (.exe).

Spread via Phishing - Sent through fake emails or malicious links.

Control Infected System - Access victim's system remotely.

🔒 Prevention:

Use updated antivirus and firewalls.

Avoid downloading unknown files.

Enable behavior-based detection.

### 3. Explanation of Antivirus (Example: Windows Defender)

Antivirus software detects, prevents, and removes malware.

Example: Windows Defender

Built-in with Windows OS.

Uses real-time protection and cloud-based scanning.

Detects viruses, ransomware, phishing, and rootkits.

Features sandboxing to isolate threats.

🔒 Why It's Effective?

Automatic updates ensure new threats are blocked.

Low resource usage, ideal for home and business use.

==> System Hacking

### 1. Different Types of Hacking Methods

Hacking methods vary based on attack techniques and targets. Common types include:

Phishing - Tricking users into revealing credentials via fake emails/websites.

Keylogging - Capturing keystrokes to steal passwords.

MITM (Man-in-the-Middle) Attack – Intercepting data between two parties.  
DDoS (Distributed Denial of Service) – Overloading a server to crash it.  
SQL Injection – Injecting malicious SQL queries to steal database data.  
XSS (Cross-Site Scripting) – Injecting scripts into websites to steal session data.  
Zero-Day Exploits – Attacking unknown software vulnerabilities.  
Brute Force Attack – Trying multiple password combinations.  
Social Engineering – Manipulating people to give up sensitive info.

## 2. Types of Password Attacks

Brute Force Attack – Tries all possible password combinations.  
Dictionary Attack – Uses common passwords from a predefined list.  
Credential Stuffing – Uses leaked username-password combos.  
Rainbow Table Attack – Precomputed hashes to decrypt passwords quickly.  
Keylogging – Captures keystrokes to steal credentials.  
Phishing – Tricks users into revealing passwords.  
Shoulder Surfing – Physically spying on someone entering their password.  
① Prevention: Use strong passwords, multi-factor authentication (MFA), and password managers.

## 3. Password Cracking Tools

pwdump7  
Extracts hashed passwords from Windows SAM (Security Account Manager) files.  
Requires Administrator privileges to run.  
Used for forensic analysis & penetration testing.  
Medusa  
Fast brute force tool for cracking passwords.  
Supports multiple protocols (SSH, FTP, HTTP, MySQL, etc.).  
Can use wordlists & username lists for targeted attacks.  
Hydra  
Powerful parallel password cracking tool.  
Supports over 50 protocols (SSH, RDP, Telnet, etc.).  
Works on Windows, Linux, macOS.  
Example:

```
hydra -l admin -P passlist.txt ssh://192.168.1.1
```

① Prevention: Use strong passwords, rate-limiting, MFA, and CAPTCHA protections.

## 4. Types of Steganography & Tools

Steganography is the technique of hiding secret data inside a normal file (images, audio, video).

Types:

Image Steganography – Hiding data inside images.  
Audio Steganography – Encoding data in sound files.  
Video Steganography – Embedding data in video frames.  
Text Steganography – Using invisible characters in text.

Tools:

✓ QuickStego (Image Steganography)

Hides text messages inside images.

Simple UI, supports BMP and JPG formats.

✓ Echo (Audio Steganography)

Hides messages inside audio files using frequency masking.

Detectable only with specialized tools.

🔒 Prevention: Use steganalysis tools and hash verification to detect hidden data.

## 5. Practical on Keylogger Tool

⚠ For Ethical Use Only! Keyloggers can be misused for illegal activities.

Steps to Use a Keylogger (Spyrix Free Keylogger as an Example)

Download & Install - Get Spyrix Free Keylogger or any ethical keylogging tool.

Run as Administrator - Ensures full logging permissions.

Enable Hidden Mode - Runs in the background without user awareness.

Start Logging - Records keystrokes, clipboard data, and screenshots.

Review Logs - Check captured keystrokes in the dashboard.

🔒 Protection Against Keyloggers:

Use on-screen keyboards for sensitive input.

Enable antivirus and behavior monitoring.

Regularly check for suspicious processes in Task Manager