

# Malware Types & Behavior Analysis Report

**Tools Used:** VirusTotal, Any.Run (free tier)

**Objective:** To study different malware types and analyze their behavior.

## 1. Virus

Viruses attach themselves to legitimate files and spread when the host file is executed.

**Behavior:** File modification, replication.

## 2. Worm

Worms spread automatically over networks without user interaction.

**Behavior:** Network scanning, rapid propagation.

## 3. Trojan

Trojans disguise themselves as legitimate software to trick users.

**Behavior:** Backdoor creation, data theft.

## 4. Ransomware

Ransomware encrypts files and demands payment for decryption.

**Behavior:** File encryption, ransom notes.

## Prevention Methods

Regular updates, antivirus software, email filtering, and user awareness help prevent malware attacks.

## Conclusion

Different malware types exhibit unique behaviors. Understanding these behaviors helps in early detection and prevention.