

task 5

1. Different Malware Types

1. Virus

A **virus** is a type of malware that attaches itself to a legitimate file or program. It spreads only when the infected file is executed by the user.

Key Characteristics:

- Requires user action to spread
- Attaches to executable files
- Can corrupt, delete, or modify files

Example Impact:

- File damage
 - System slowdown
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2. Worm

A **worm** is a self-replicating malware that spreads automatically across networks without user interaction.

Key Characteristics:

- Does not need a host file
- Spreads through network vulnerabilities
- Consumes network bandwidth

Example Impact:

- Network congestion
 - Rapid system infection
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3. Trojan

A **trojan** is malware disguised as a legitimate application to trick users into installing it.

Key Characteristics:

- Appears harmless
- Does not self-replicate
- Often creates backdoors

Example Impact:

- Credential theft
 - Remote access to system
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4. Ransomware

Ransomware is malware that encrypts a victim's files and demands payment to restore access.

Key Characteristics:

- Encrypts important data
- Displays ransom message
- Targets individuals and organizations

Example Impact:

- Data loss
- Financial damage
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