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# MALWARE:

## virus, worm & trojans

<https://www.youtube.com/watch?v=n8mbzU0X2nQ>

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MALWARE TYPE	FEATURES	ACTION
VIRUS	program attached to an executable file it stays in the computer and activates only when the infected program starts	can cause many damages: stealing data, compromise the use of programs...
WORM	software that can replicate itself without any human control	can slow down traffic and computer functions using system failures / unprotected systems
TROJAN	harmful piece of software that looks legitimate	steals information and gives access to your computer to a remote hacker
RANSOMWARE	software that locks the system and threaten to destroy data	blocks the pc to get a ransom (money)
SPYWARE	software that collects personal information	steal passwords and other sensitive data

# HOST REQUIREMENTS

Host Requirements	Virus	Worm	Trojan
<b>Does it require an infected host file?</b>	Yes	No	Yes
<b>Does it require user intervention to spread?</b>	Yes, the user must open the infected file	No, it spreads through the network	Yes, the user must use the link that seems legitimate
<b>Primary method of spreading?</b>	questionable websites, emails and files	Network using security failures	websites and emails

# Real life scenario 1

Jane downloads a free, popular screen saver utility from a third-party website. After installing it, her bank account details are compromised. Security analysis reveals that the utility appeared legitimate but was designed to steal sensitive data and give cyber crooks access to her system.

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## Real life scenario 2

An employee receives an unexpected email with an attachment labeled "Urgent Company Policy Update.exe." The employee opens the executable file, and immediately their local machine becomes infected and some personal files are corrupted. However, the malicious software does not automatically spread across the company network or to other computers.

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# Real life scenario 3

Sandra works in a marketing office and receives an email from DHL saying that her delivery is stuck at custom controls so she has to log in to insert some extra information. She logs in and nothing happens.

After a few hours her computer shuts down followed by all the other computers in the company. Then a full-message appears asking for a payment.

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