

Hasso

Virus, Worm, and Trojan – so Many Malware ...



By Larry Monarrez, Jim Parker December 11, 2020 12:35 pm Published December 11, 2020 11:44 am



SISD's internal computer network taken down due to virus



Zeus Sphinx Trojan Awakens Amidst Coronavirus Spam Frenzy

March 30, 2020 | By Amir Gandler co-authored by Limor Kessem | 7 min read

December 3, 2020

Trickbot trojan takes aim at vulnerabilities in booting process

Derek B. Johnson

🗪 Glupteba Trojan Makes a Comeback Taking Aim at Large Enterprises [Whitepaper]



Gitpaste-12 worm botnet returns with 30+ vulnerability exploits

By Ax Sharma December 19, 2020 7 01:01 PM 0

Malware: Virus



Virus is a **malware** that attaches itself to a program or a file ("**host**") and spread further to other programs/files

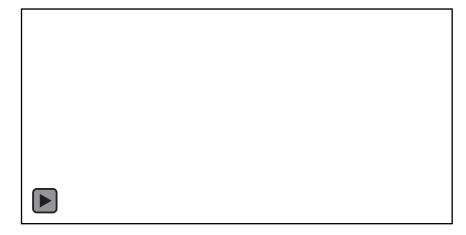
- If the infected host is **opened** or **run** then the target system gets infected
- Severity ranges from causing annoying effects up to damaging data, software, or even hardware
- Often no clear definition
 - colloquial term for malware
 - generic term for all malware in a host programs

Malware: Worm



Worm is a malware that can spread its copies over the network or Internet **on its own**

- Start infection by exploiting vulnerabilities on target's system or tricks the target to execute the malware
- Functions independently → does not need a host or a human to replicate and distribute itself
- Often worms **spread faster** than viruses, e.g., Code-Red 2001



Malware: Worms ILOVEYOU (1/2)



ILOVEYOU – **Worm** that uses **social engineering techniques** to infect users via an **email**

- Subject of the email: "ILOVEYOU" (I love you)
- Attachment of an alleged love letter ("LOVE-LETTER-FOR-YOU.txt.vbs")
 - contains a visual Basic Script (.vbs) that executes
 malicious program code when the attachment is opened
 - □ file extensions were not displayed → target will not suspect the attachment to be malicious
- Email address book of the victim of the target is used to distribute the worm via email

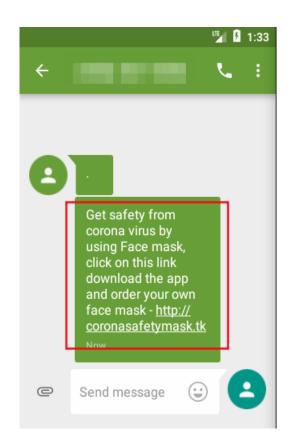
box

Malware: Worms ILOVEYOU (2/2)



Safety Mask – **Worm** with a similar concept as **ILOVEYOU**

- Target will receive an SMS to download and install the application (worm) from the attached link
- Phone address book is used to distribute the worm via SMS



Source: Shivang Desai, "New Android App Offers Coronavirus Safety Mask But Delivers SMS Trojan Zscaler, 2020

Malware: Trojan (1/2)



Trojan is a malware that disguise itself as a **genuine** and **useful application** and tricks the target to install it

- Contains hidden malicious functions unknown to the target, e.g., download of other malwares
- Malicious function is executed in parallel to the expected functionality
- Does not replicate itself nor infect other files



Malware: Trojan (2/2)



Trojans have different objectives like installing a ...

Backdoor

 Opens a backdoor in the victim's system to give the attacker remote control access to the his/her system

Spyware

 Monitors and sends information of victim's system by capturing keyboard typings, gaining access to microphone or webcam, etc.

Botnet

 Adds the victim's system to a network of hijacked and remote controlled systems to launch cyberattacks

Downloader

 Installs other malwares to the infected system, such as ransomware or worms

Malware: Trojan BlackNET Trojan



BlackNET RAT – Trojan that utilizes COVID-19 pandemic

- Utilizes a phishing website that encourage users to download software to "protect" computer against COVID-19 virus, which is not true
- After the "software" has been installed, the infected computer becomes a bot that can be controlled by the hacker
- BlackNET RAT is capable of launching distributed DoS attack, taking screenshots, stealing passwords, cookies, and Bitcoin wallets



Source: https://blog.malwarebytes.com/threat-analysis/2020/03/fake-corona-antivirus-distributes-blacknet-remote-administration-tool/