

What are the potential threats to networks and their data?

S.P.I.R.I.T

- ✓ Independence
- ✓ Perseverance

Monday, 04 April 2022

Learning Intention

**To secure understanding**

by being able to describe the consequence of computer viruses.

**To develop knowledge** by

being able explain different types of malicious computer programs

**To achieve excellence** by

Condensing understanding into suitable material



***Tier 2 word – Malicious***  
*intending to cause harm*



**Malware**

*Malicious software that is specifically designed to disrupt, damage, or gain unauthorized access to a computer system.*

# Malware

- Short for malicious software
- Malware is a broad-spectrum term used to describe software used to disrupt computer operation

- Example: [Zbot](#)

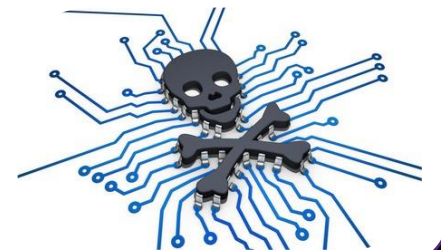


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computer programs

- *A virus is a computer program that is able to copy itself onto other programs often with the intention of maliciously damaging data.*
- A virus is transmitted by 'piggybacking' on another program known as a **'vector'**.
  - Attack vectors include e-mail attachments, Web pages, pop-up windows, instant messages, chat rooms, and deception.
  - All of these methods involve programming (**except deception**, in which a **human** operator is fooled into removing or weakening system defences.)

To develop knowledge by

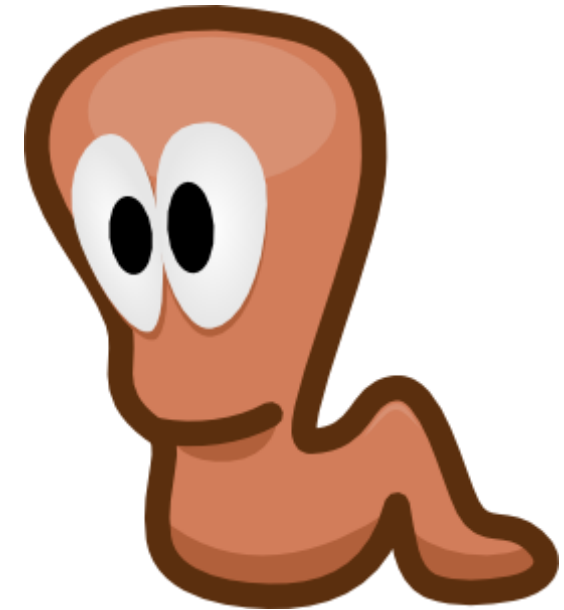
being able explain different types of malicious computer programs



# Worms



- Is similar to a virus but is a standalone program that replicates itself in order to spread to other computers.
- Worms identify vulnerabilities in operating systems and enable remote control of the infected computer
- It does not need a **vector**.



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# ILOVEYOU



- Estimated Damage: \$5.5 billion to \$8.7 billion in damages; ten percent of all Internet-connected computers hit
- It took your contacts from your Outlook list. If you saw the e-mail message "I LOVE YOU" and opened it, it would copy and send out the message again and again.
- Recipients, who didn't know what was happening, would execute the document only to have most of their files overwritten.

*<http://www.catalogs.com/info/travel-vacations/top-10-worst-computer-viruses.html>*

- <https://www.youtube.com/watch?v=ZqkFfF5kAvw>

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# Key Loggers



- Are covert programs that capture keyboard (or other input device) input and transmit this data to a third party or hold the data for collection.

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



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# Trojan Horse / Trojan



- A Trojan is a program that appears to perform a useful function, but also provides a 'backdoor' that enables data to be stolen.
- The term is derived from the Ancient Greek story of the wooden horse that was used to help Greek troops invade the city of Troy by stealth.



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# Spyware

- Installed by opening attachments or downloading infected software.
- Spyware can be used to collect stored data without the user's knowledge.



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## Task

Create a mind map out of the information on Malware, Viruses, Worms, Key loggers, Spyware and Trojans.

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