

Atlas Communications  
European Cyber Security Month Workshops

## 2) PROTECTING YOUR ORGANISATION FROM MALWARE



EUROPEAN  
CYBER  
SECURITY  
MONTH

# What is Malware?

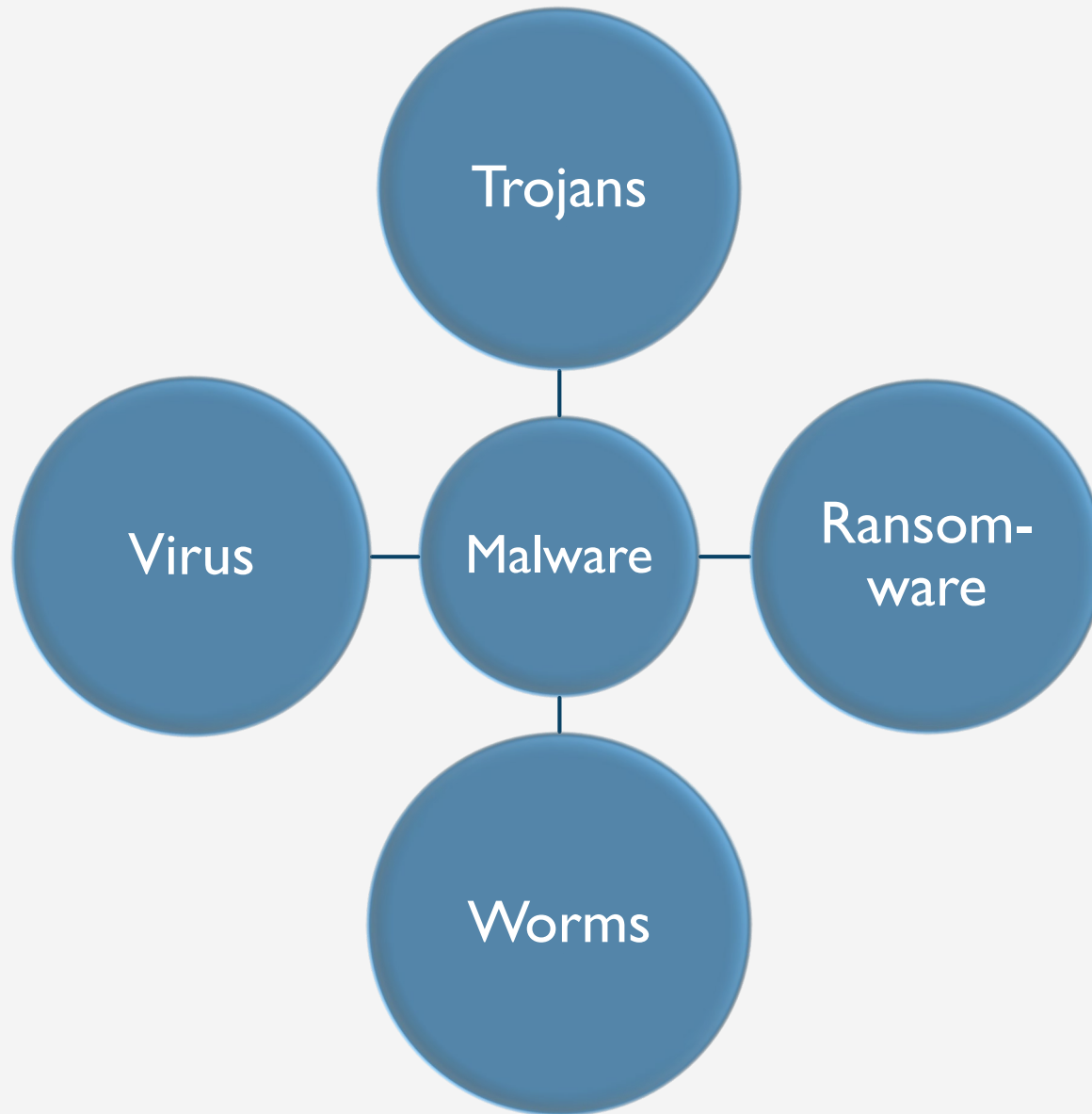


Malware is **malicious software** that is specifically designed to disrupt, damage, or gain unauthorised access to a computer system

- When you hear talk of viruses, Trojans, spyware and the like, what you're really hearing is talk of different kinds of malware.
- Malware mostly gains access to your device via the Internet and through email, despite the fact that it can also get access via hacked websites, music files, toolbars, game demos, etc.



# Types of Malware





# Key Stats



Ransomware attacks increased by 36% in 2017



1 in 131 emails contains malware

**197 DAYS**

The time it takes for most businesses to detect a breach on their network



230,000 new malware samples produced every day





# How to spot malware



- The computer haphazardly shuts down, fails to start up, or it suddenly crashes.
- The internet speed becomes very slow due to increased data traffic.
- There is an automatic redirecting to unwanted sites & increased display of unwanted internet content such as promotional pop-ups



# How to spot malware cont.



- The computer runs much slower than expected because of the increased processor load.
- Changes on the computer are obvious, for example, new folders or files that you fail to recognise or the mouse cursor being remotely controlled.
- Unwanted programs have been installed. These programs are also capable of opening by themselves.



# WannaCry

## Ransomware Attack

### NHS Case Study



- 300,000 computers infected globally
- WannaCry exploited a vulnerability in Microsoft
- Ransom demanded in bitcoin with payments between \$300-\$600 per device to restore access
- £180k spend on emergency measures





# Protective Measures



Update Windows and software



Use a firewall



Install an antivirus solution



Backup, backup, backup



Stay one step ahead





# Atlas Communications European Cyber Security Month Workshops

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