



The Economic Effects of Cyber-Attacks on the Tech Industry

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Types of Cyber-Attacks

- Virus types
 - Boot-sector
 - Execute when a computer boots up
 - Logic bombs/ time bombs
 - Execute when a certain time is met
 - Worms
 - Spread on their own throughout the system
 - Script and Macro Viruses
 - A series of commands with malicious intent
 - E-mail viruses
 - Spread as an e-mail attachment
 - Encryption virus
 - Encrypts files, locks them, and asks for a ransom in order to unlock them



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Defending from Hackers

- Creating strong passwords with different letters, numbers, and symbols
- Use a firewall or anti-virus software
 - Windows and MacOS
 - Norton, McAfee, AVG



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Ways Businesses Can Be Affected by Loss

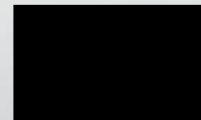
Revenue + Security improvement

+ Data + Protection of Customers

+ Equipment + Regulatory Penalties

+ Intellectual Property +

+ Court fees + Forensics



Total Impact to a Company

Making Decisions in IT Related Systems

- Companies that have less financial and technical resources have a smaller chance of getting attacked
 - Larger companies, like Google, with better defense systems have a higher chance of getting attacked
 - Smaller companies, like a local computer repair shop, with not as good defense systems have a lower chance of getting attacked



WannaCry

- An encryption virus
- Launched on May 12, 2017
- Caused by a security gap in Microsoft Windows
- Infected 300,000+ computers in over 150 countries

WannaCry Ransomware Attack

Patch for Unsupported Windows (**Apply Now**)



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WannaCry cont.

- Users were asked to pay a ransom between \$300-\$600
- Eventually stopped by Markus Hutchins after an exploit was found
- Caused a positive excess return for cybersecurity stocks for many cybersecurity companies



References

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