WannaCry ransomware attack

Introduction

cybercriminals use them.

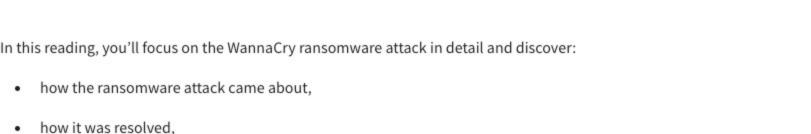
Nowadays, computers and mobile phones are increasingly used to save valuable information like pictures, documents, videos, and passwords. With this increasing use of technology, cyber threats have become more sophisticated and

Previously you were introduced to cyberattacks, and you learned what a cyberattack is and some of how

dangerous. One of the most significant cyber threats faced today is ransomware attacks. Welcome to the digital age! Ransomware is a type of malware that takes control of a victim's files and encrypts them, then demands payment in exchange for a decryption key that restores access to the files. Ransomware attacks have become a major concern for

both individuals and businesses in recent years. These malicious programs can even lock victims out of their computer

systems. One of the most notable examples of ransomware attacks is the WannaCry ransomware, which affected computer systems worldwide in May 2017. The image below shows the steps of how Ransomware takes place; from receiving the malware through to the ransom demand.



one of the most significant cyberattacks in recent history, affecting more than 200,000 computers across 150 countries and causing billions of dollars in damage. The attack targeted the Microsoft Windows operating system, exploiting a

vulnerability known as EternalBlue. Once it infected a machine, it encrypted data and demanded payment in

and the lasting impact it has had.

Some high-profile organizations affected by WannaCry ransomware were:

- What is WannaCry?

Malware received via spam

The WannaCry ransomware attack was a global incident that caused substantial damage in May 2017. It's considered

cryptocurrency for the data to be restored.

UK's National Health Service (NHS),

and the Health Service Executive in Ireland.

It also affected companies like:

- FedEx,
- Telefonica,
- and the German railway company Deutsche Bahn.

Renault,

- How did it start?
- Agency (NSA),and was later stolen and leaked by a group of hackers known as "The Shadow Brokers." Once the vulnerability was exposed, the WannaCry ransomware started spreading like wildfire. The hackers behind WannaCry

engineering

Payment will be raised on

5/15/2017 15:58:08

Time Left 02:23:58:59

The ransomware was spread through malicious attachments in emails and infected websites, as well as computers

demand. Ransomware exploits Ransomware is installed vulnerabilities and infects through social

network

Ransomware encrypts data

and demands ransom

The WannaCry attack began when hackers used a vulnerability in Microsoft's Server Message Block or SMB protocol, which is used for file sharing. The vulnerability, known as EternalBlue, was discovered by the US National Security

connected to a network. When the malware infected a machine, it encrypted all the data on that machine and

displayed a message demanding payment in Bitcoin to unlock the data. The ransom demanded was initially \$300 in

The image below shows the steps of how WannaCry took place. From receiving the malware through to the ransom

were able to use EternalBlue to spread the ransomware from one system to another very quickly.

Bitcoin, which increased if the payment was not made within a certain period.



Sure. We guarantee that you can recover all your files safely and easily. But you

You only have 3 days to submit the payment. After that the price will be doubled. Also, if you pay in 7 days you won't be able to recover your files forever. We will have free events for users who are so poor that they couldn't pay in 6 months.

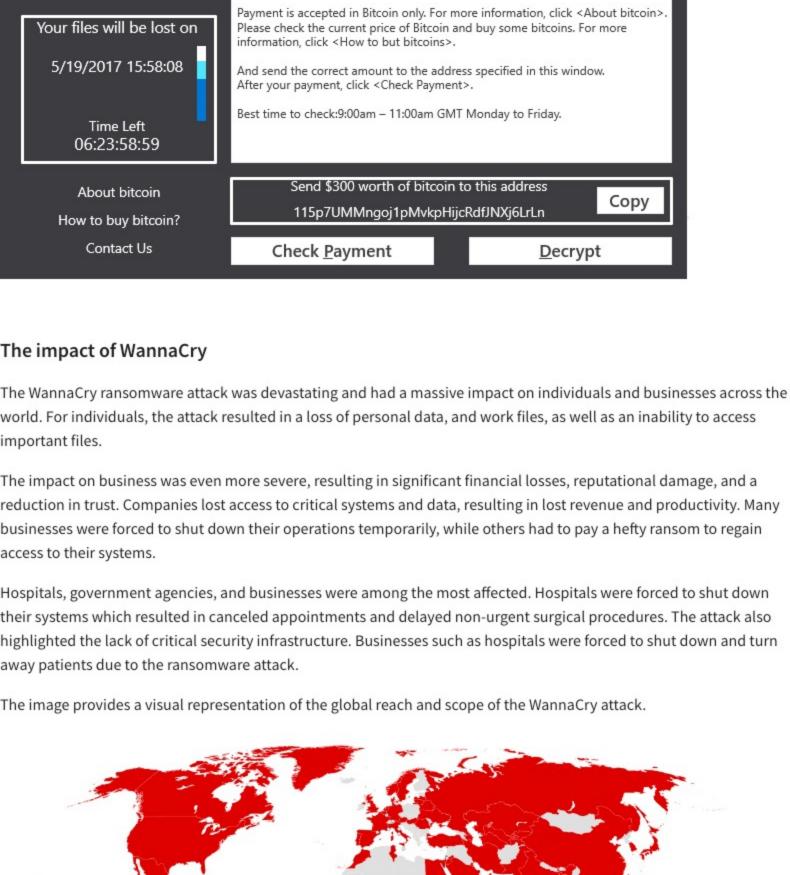
You can decrypt some of your files for free. Try now by clicking <Decrypt>

But if you want to decrypt all your files, you need to pay.

Can I recover my files?

have not so enough time.

How do I pay?



How was it stopped?

that domain.

WannaCry was diagnosed by a 22-year-old cybersecurity researcher named Marcus Hutchins, who discovered a kill switch within the code. The kill switch was surprisingly simple as it was just a domain name. WannaCry was designed

You might ask yourself; how did the world stop the ransomware attack?

This domain name was iuqerfsodp9ifjaposdfjhgosurijfaewrwergwea.com.

Hutchins registered that domain name and accidentally activated the kill switch for WannaCry, which halted the ransomware from damaging the system. This also averted a potential worldwide catastrophe that may have occurred if the kill switch hadn't been turned on in time. Aftermath

While WannaCry had a massive impact across the world, it also highlighted the risks of cyberattacks to organizations

in such a way that if it could contact this domain name from the affected computer, it will stop encrypting the files on that system. So, no further damage would be done to that computer if the ransomware was able to communicate with

and businesses of all sizes. It showed that businesses which lacked proper security measures were particularly vulnerable to attack. The incident underscored the importance of proactive measures to protect against cyber threats, including implementing robust security protocols and ensuring regular data backups.

Report an issue

Conclusion As you may have concluded, the WannaCry ransomware attack was a wake-up call for everyone! It highlighted the importance of cybersecurity and the need to take proactive measures to prevent cyberattacks. It showed that no one is

Governments and businesses around the world started taking steps to improve their cybersecurity measures. Microsoft also released a patch to fix the EternalBlue vulnerability that caused the WannaCry ransomware to spread so rapidly.

In this reading, you explored the WannaCry ransomware attack in detail, you discovered how it started, the impact it had, and what individuals and businesses learned because of it.

safe from cyber threats and cybercriminals are always looking for vulnerabilities to exploit. The best defense against

such attacks is to stay vigilant, keep software up-to-date, and have a solid backup system in place.

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