Ransomware: Many victims, few solutions

Ransomware. Rebirth of a lucrative attack

Over the past few months, we have been witnessing a boom in ransomware attacks. With attacks such as Cryptolocker or the more recent Petya, ransomware has been under the media spotlight due to its lucrative side as well as how quickly and devastatingly it spreads.

2 types of ransomware:

Ransomware is malicious software

In a few words

that holds private data hostage. Such malware encrypts private

data, and through a message, demands that the owner sends money in exchange for the key that would allow decrypting the data.

browsers (called Browlock) or completely paralyzes your computer. The second, increasingly widespread and probably the more nefarious, includes crypto-ransomware or "cryptoware". Malicious

First category: Classic "police" ransomware that freezes your

software of this kind will encrypt documents stored on your computer, making them unreadable without the decryption key held by the hacker who will then demand a ransom in exchange for this key.

the software license

has expired



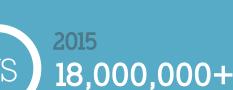






Cerber 'etya TeslaCrypt KeRanger CTB-Locker WinLock Reveton







x150

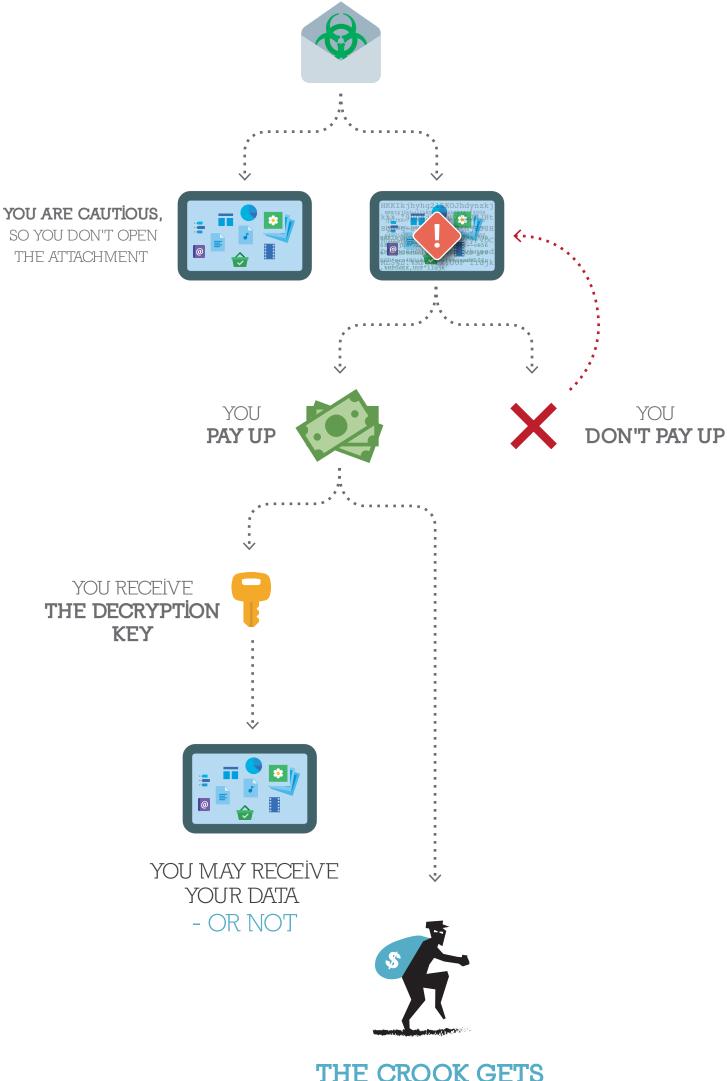


All OSs affected **KERANGER**



CAMPAIGNS ARE TARGETED A striking example: Locky





THE NEW JIGSAW THREAT

VARIOUS METHODS

PLAYING ON FEARS

NOTIFICATION POP-UP

software on OSX)

In this way, the user being held in a stressful state and with little time to think clearly, will prefer to pay the ransom.

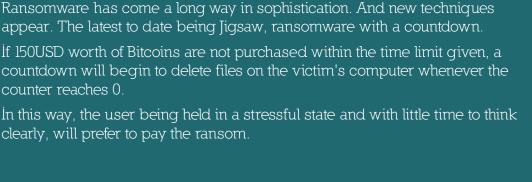
counter reaches 0.

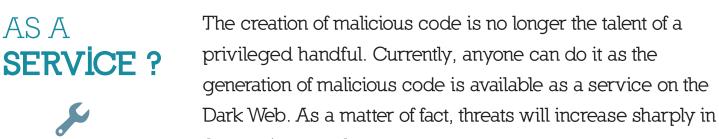
verification and as such set off the attack which in several seconds will

RANSOMWARE AS A SERVÌCE

CREATE YOUR OWN RANSOMWARE

WITHOUT TECHNICAL KNOWLEDGE





With very simple step-by-step tools, the hacker can quickly assemble his own ransomware.

He rewards the provider of this service by paying him a 25% commission on transactions

The hacker selects the attack method Block Encryption Countdown

made through the campaign.

Customization



the coming months.

The code is **ready to be used**

Step 2

Creation

The service **prepares the malware**

according to the choices indicated

Step 3

Distribution

HERE WE GO! The ransomware will use multiple methods to spread such as paying

for an exploit kit in order to exploit

a vulnerability.

- RANSOMWARE DOES NOT ONLY SPREAD BY EMAIL -compromised or malicious websites,

birthdays, etc), messages, notes, photos and even applications

SOLUTIONS

D COUNTER RANSOMWARE

Stormshield Endpoint Security

This proactive protection prevents malicious software from running on your computer and/or exploiting vulnerabilities (through an exploit kit).

FOR REAL PROTECTION,

malicious behavior identification technology allows blocking most ransomware programs even before they are

Stormshield Endpoint Security with its proactive

identified as such by the cybersecurity community.





Data

(Stormshield Data Security).

www.stormshield.eu

subsidiary of Airbus Defence and Space, offers innovative end-to-end

Stormshield, a fully-owned

SOME **INDISPENSABLE ADVICE**



dubious websites.



Update your applications, pluging and operating

To protect yourself from ransomware

Further information:

Be wary of suspicious emails with attachments or from

backups.

systems.

EMERGENCE OF THE FIRST RANSOMWARE Name Modus Operandi PC Cyborg Trojan. **Issued** warnings that



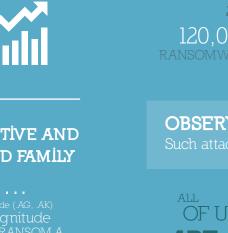


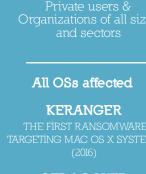












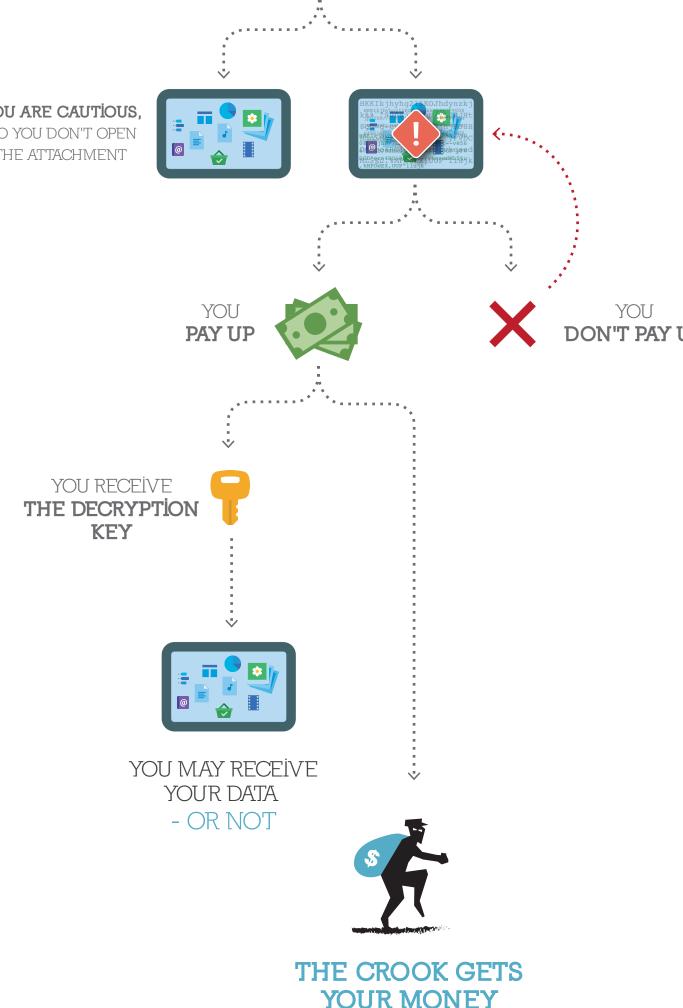


Customized emails made it all the more effective.

ILLUSTRATION OF A SIMPLE ATTACK SPREAD OF RANSOMWARE BY EMAIL







authority to extort from users by displaying pornography or child

HOW DOES IT WORK?





• a USB key,

and provides

payment information

bitcoin

• a software/application installation from an unreliable source, • social networks (which facilitate social engineering), etc. TELEPHONES ARE UNDER THREAT ANDROID, A MASSIVE CHALLENGE.



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