Πολιτικές Ασφάλειας & Ιδιωτικότητας στο Διαδίκτυο

Ασφάλεια Δικτύων

Χριστόφορος Νταντογιάν

Malware

- A piece of malicious software
 - Botnet
 - Ransomware
 - Steal personal info
- Popular in Windows machines

- Mobile malware on the rise
 - Especially for Android

Malware motivation

- Initially the goals of a malware were disruption → Now is money
- 1. Blackmail based on ransomware
- Blackmail based on DDOS by becoming part of a botnet
- 3. Steal personal information (e.g., from keyloggers to man in the browser)

Man-in-the-browser

 Man-in-the-browser attacks, a specialised breed of man-in-the-middle attack that manipulates browser content to steal sensitive user information or lure victims into malwareinfected websites.



Add "Office Online"?

×

It can:

Read and change all your data on the websites you visit

Display notifications

Communicate with cooperating websites

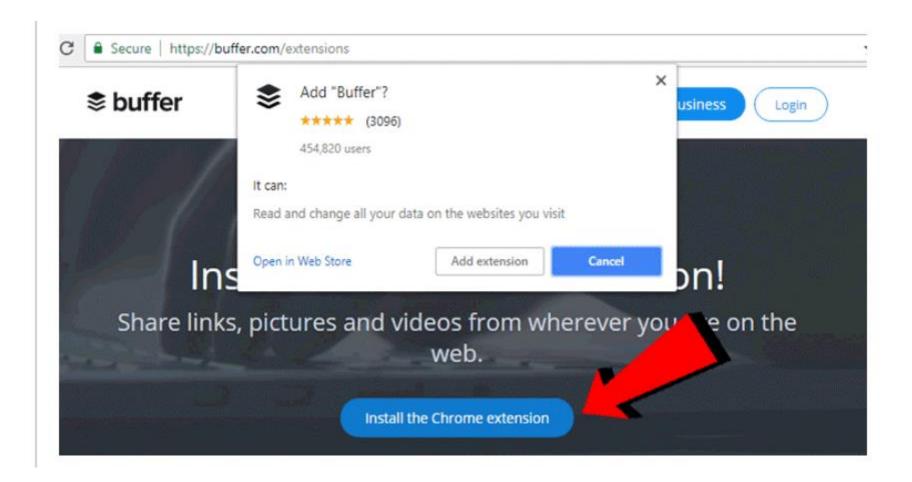
Read and modify data you copy and paste

Communicate with cooperating native applications

Add extension

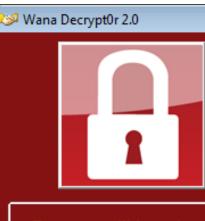
Cancel

Inline install



WannaCry ransomware

- The WannaCry ransomware attack was a May 2017 worldwide cyberattack, which targeted computers running the Microsoft Windows operating system by encrypting data and demanding ransom payments in the Bitcoin cryptocurrency.
- It propagated through EternalBlue, an exploit developed by the US National Security Agency (NSA) for older Windows systems
- The attack was estimated to have affected more than 200,000 computers across 150 countries,



at Hannanad ta My Computan?

English

What Happened to My Computer?

Your important files are encrypted.

Many of your documents, photos, videos, databases and other files are no longer accessible because they have been encrypted. Maybe you are busy looking for a way to recover your files, but do not waste your time. Nobody can recover your files without our decryption service.

Payment will be raised on

5/15/2017 11:23:24

Time Left

02:23:53:40

Can I Recover My Files?

Sure. We guarantee that you can recover all your files safely and easily. But you have not so enough time.

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

Ooops, your files have been encrypted!

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

You only have 3 days to submit the payment. After that the price will be doubled. Also, if you don't 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.

Your files will be lost on

5/19/2017 11:23:24

Time Left

05:23:53:40

How Do I Pay?

Payment is accepted in Bitcoin only. For more information, click <About bitcoin>.

Please check the current price of Bitcoin and buy some bitcoins. For more information, click <How to buy bitcoins>.

And send the correct amount to the address specified in this window.

After your payment, click <Check Payment>. Best time to check: 9:00am - 11:00am

OMT C..... M...J...L. P...J...

About bitcoin

How to buy bitcoins?

Contact Us



Send \$300 worth of bitcoin to this address:

12t9YDPgwueZ9NyMgw519p7AA8isjr6SMw

Сору

Check Payment

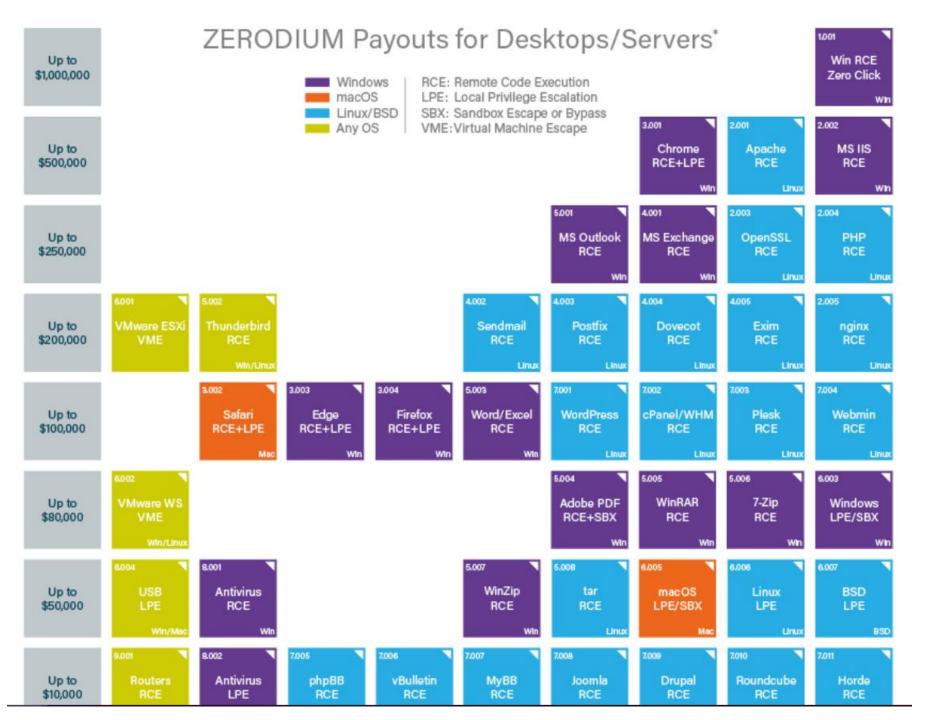
<u>D</u>ecrypt

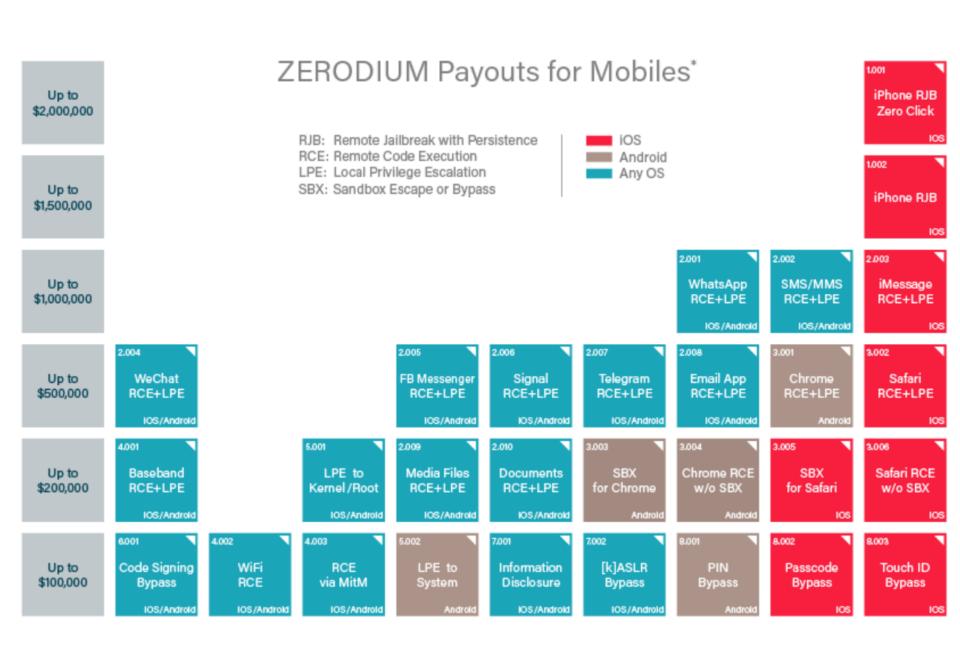
How organizations are attacked and infected?

- Old days through internet worms...(e.g., splasher)
- Spam email with malicious attachments
- Visiting malicious web sites
 - Malicious software as maltervisement
 - Scareware also known as Rogue AV or other malicious software
 - Drive by downloads

Recon

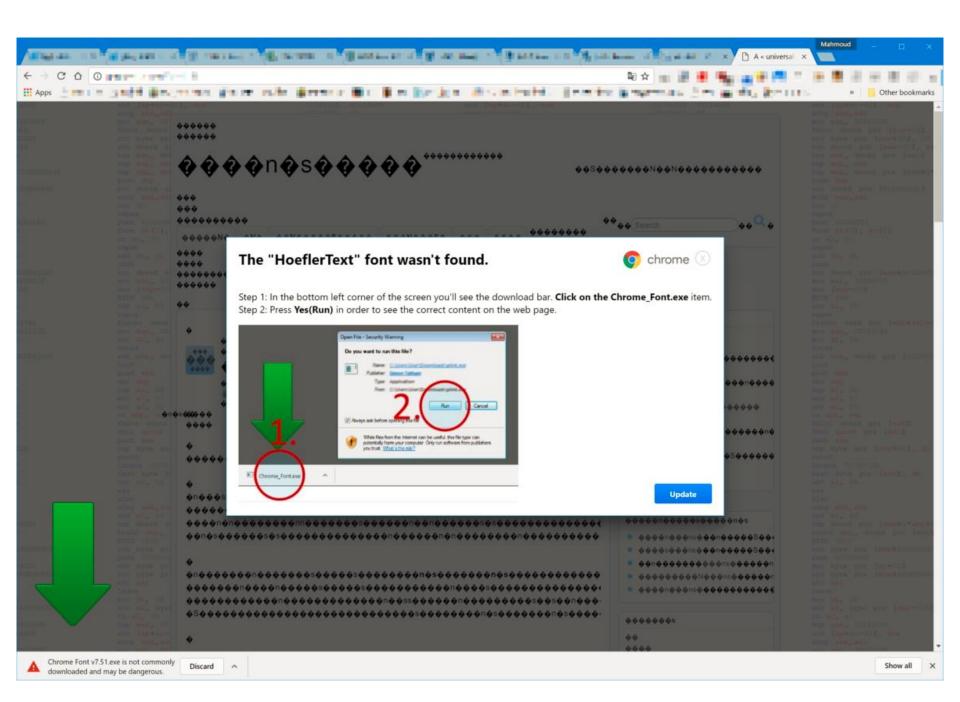
- Information gathering using public data
 - emails,
 - Names and accounts,
 - Phone numbers
 - Job descriptions...
- Discover IP ranges, domains, servers

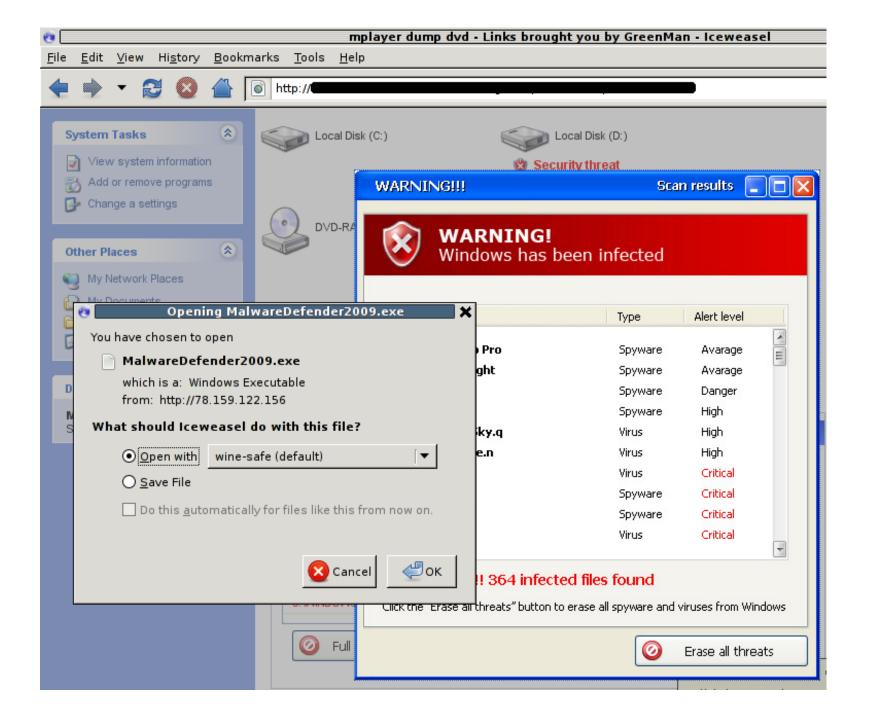




Social Engineering

- Spoofed email!
 - Depends on the mail server of the organization
 - Buy a resembling domain (e.g., <u>user@faceb00k.com</u>)
 - Change the name of the email sender
- Using cc with familiar emails increases the chances.
- Nicknames
- Executables change the file format (e.g., cats.pdf.exe)
- Use zip files with passwords!









Your phone has (13)serious virus

We noticed that your phone is damaged (20.1%), it has (13) dangerous viruses from porn sites, and your SIM card will be damaged, as well as your contacts, photos, information.



2 minutes and 53 seconds

If you do not clear the virus, your phone will be severely damaged.

Below are instructions on how to get rid of this problem (Step by Step):

Step 1:Click the button to install the free anti-virus software 360 security from the Google play store!

Step 2: Open the application, scan your phone and remove all viruses

Now remove the virust

Questions

