

NotPetya

One of The Most Devastating Cyberattack in History

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What's the worst thing that
can happen from a cyberattack?

victim of the PETYA RANSOMWARE

isks of your computer have been encrypted by our algorithm. There is no way to reverse this process. You can purchase this key to decrypt the data.

Get your key and restore your data.

Open the Tor Browser at "<https://www.accessnow.org/petya>" and search for "access on".

Damage on Ukraine

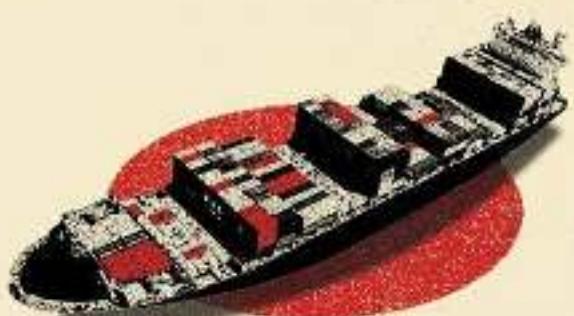
- The radiation monitoring system at Ukraine's [Chernobyl Nuclear Power Plant](#) went offline
- Several Ukrainian ministries, banks, metro systems and state-owned enterprises
- 1,500 legal entities and individuals

The weapon's target was Ukraine. But its blast radius was the entire world. "It was the equivalent of using a nuclear bomb to achieve a small tactical victory," Bossert says.

Notable Companies Affected by NotPetya

- Maersk
- FedEx
- Merck
- Mondelez (Cadbury & Nabisco)

And almost 300 More!



\$10,000,000,000,000

National State Level Sophistication

An Autopsy Report

1. Disguised as a ransomware worm. Similarity to Petya
2. Combined with two very powerful exploits
3. Linkos group's M.E.Doc was used to spread the malware

Mimikatz

Tool to extract plaintexts passwords, hash, PIN code and Kerberos tickets from memory.

- Takes advantage of Lsass.exe
- Pass hashes, tickets, Kerberos golden and silver tickets

```
C:\Users\root\Desktop\mimikatz\x64
$ mimikatz.exe

.ooooo. mimikatz 2.2.8 (x64) nt5302 Jul 18 2010 23:00:43
.oo ^ oo. "A La Vie, A L'Amour" (oc.oc)
oo / \ oo /**** Benjamin DELPY 'gentilkiwi' ( benjamin@gentilkiwi.com )
oo \ / oo > http://blog.gentilkiwi.com/mimikatz
oo v oo' Vincent LE TOUX ( vincent.letoux@gmail.com ) 
'ooooo' > http://pingcastic.com / http://mysmartlogon.com ****

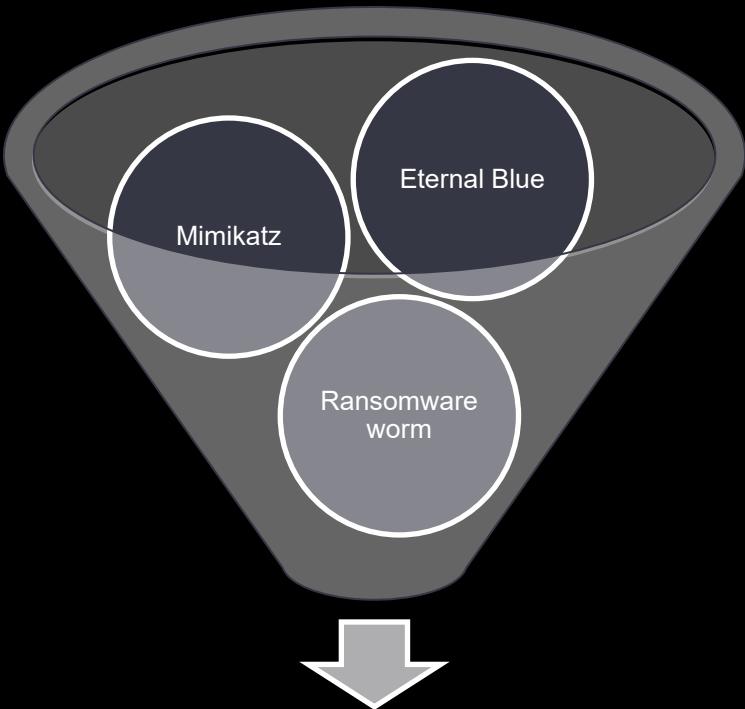
mimikatz # sekurisa::minidump lsass.DMP
Switch to MINIDUMP : 'lsass.DMP'

mimikatz # sekurisa::logonpasswords full
Opening : 'lsass.DMP' file for minidump...
ERROR kuhl n sekurisa acquireLSA ; Key import
```

Eternal Blue

- Developed by NSA, leaked by Shadow Brokers
- Used in the WannaCry ransomware attack
- Exploits a vulnerability in Microsoft's implementation of the Server Message Block (SMB) protocol.





Who? Why?

Rogue Hacker Group or National State Agent?

- Researchers starting pulling the code apart
- Slovakian Security firm ESET collect forensic evidence which tie it Sandworm
- Malware attack on the Ukrainian power grid as well as a mining company and a large railway operator in December 2015

Changing the cyberwar landscape

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The White House Blames Russia for NotPetya, the 'Most Costly Cyberattack In History'

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Australia joins UK, US to blame Russia for NotPetya

By Daniel Engber
Edited by Matt Novak
Illustration by Matt Novak

Moscow decries Western campaign.

LONDON, Moscow, and US governments have blamed Russia for last week's NotPetya global malware attack, which prompted both governments to issue a warning against the world, including countries like



Five Eyes Nations United in Blaming Russia for NotPetya



By Matt Novak
Edited by Matt Novak
Illustration by Matt Novak



The US, Canada, Australia, and the UK have all blamed Russia for last week's NotPetya global malware attack, which targeted companies around the world, including countries like

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Food For Thought

- Why did Russia leak Eternal Blue in the first place?
- Why no visible action was taken against Russia?

Thank You!
