

Companies like yours

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DDMA - Datasecurity congres

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Deloitte.

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- Privacy & Data protection
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Security & Privacy at Deloitte in the Netherlands

- Over 120 Security & Privacy professionals
- Over 65 CISSP's
- Over 40 Ethical hackers
- Official security and privacy trainers recognized by ISACA, (ISC)², IAPP



On September 19th 2013 the 3rd finals took place in Atlanta. Over 600 teams participated in the preliminary rounds. The 10 best teams representing all continents participated in the finals. The Deloitte Netherlands team won this final for the third time.

Trends The cyber world is ever evolving

Society & Economy

- 1. Dependence on technology is growing
- 2. Connectivity increases dramatically
- 3. Disruptions in technology are a clear and present danger to business continuity

Cloud computing, Social Media, mobile computing, BYO, remote working, always online, digital-supply-chain, online shopping, online banking, etc.

Cyber Threats

- 1. Increased digital
- 2. Cybercrime is professionalizing
- 3. Increase in other factors and motivations

DDoS, Skimming, SPAM, Phishing, Spear-phishing, Internet banking hack, Credit card data theft, Identity theft, Password cracking, Disclosure confidential data, hacking Social Media, hacking parking terminals, disruption manufacturing systems, etc.



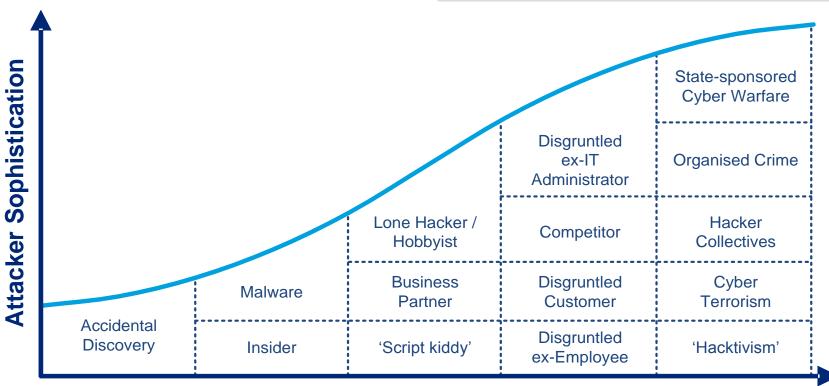


"They Couldn't Hit an Elephant at that Distance."

John Sedgwick May 9, 1864

The danger Who is targeting you?

Туре	Permission?	Criminal Intent?
Blackhat	No	Yes
Greyhat	No	No
Whitehat	Yes	No



Attacker Determination

Companies like yours Video



Companies like yours Video

http://www.deloitte.nl/cybervideo

Companies like yours Comments

Nice movie, but...

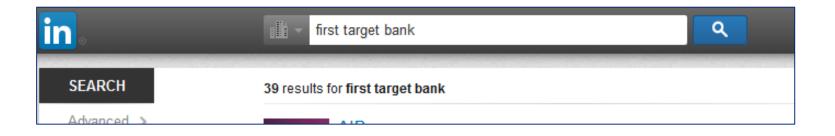
- This will never happen to us.
- Not at our company.
- It's too much 'James Bond'.
- It isn't that easy in real life.
- They are just actors.
- •

Not in real life? Allow us to demonstrate

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Step 1 Information gathering

Google™	first target bank
FirstTargetBank Google zoeken Ik doe een gok	All Results People Pages Groups





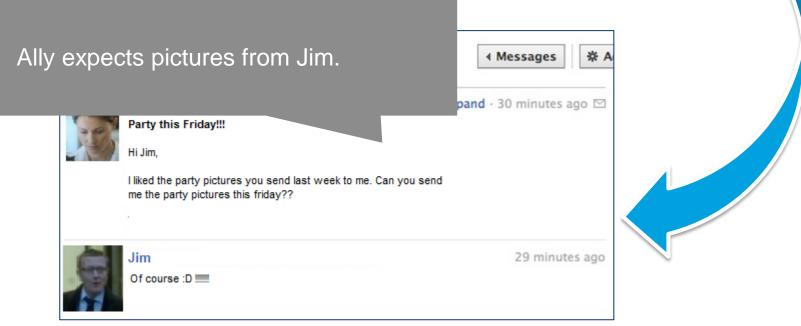
Ally is system administrator.



System administrator at First Target Bank The Hague Area, Netherlands

Connect with Ally · 17m ago

Ally



Step 2 Social engineering





Victim 1

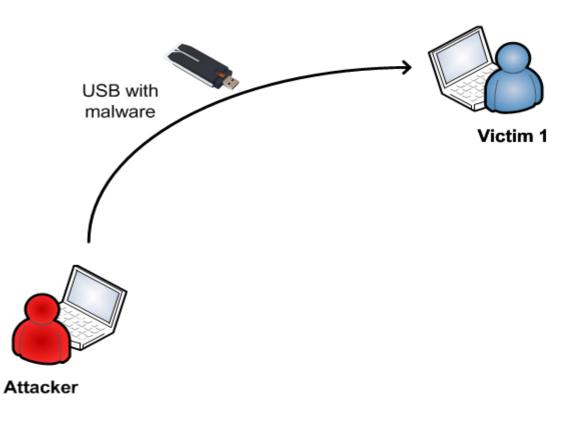


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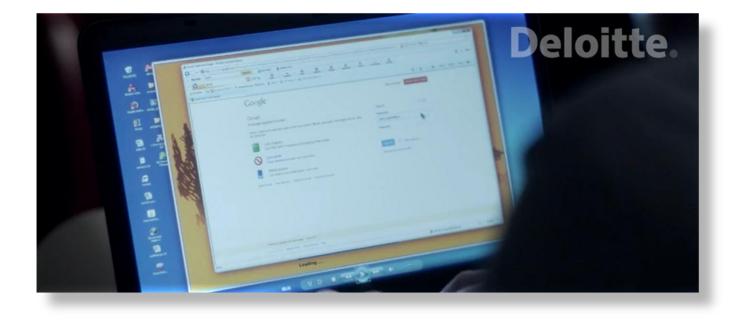
Step 3 The infection

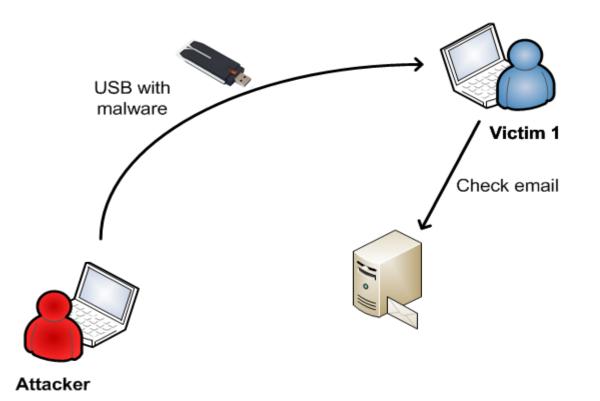


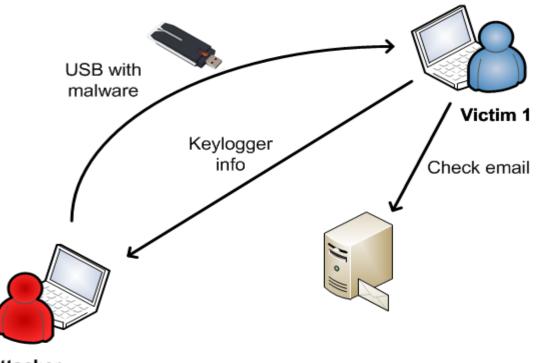




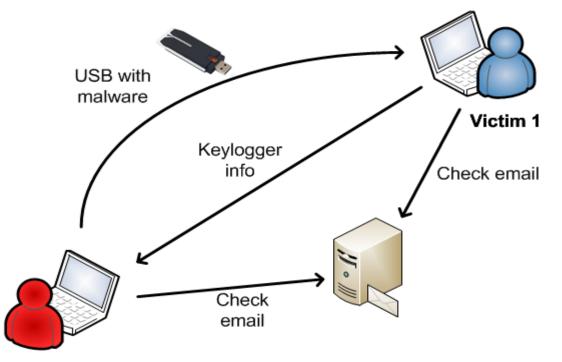
Step 4 Gaining access













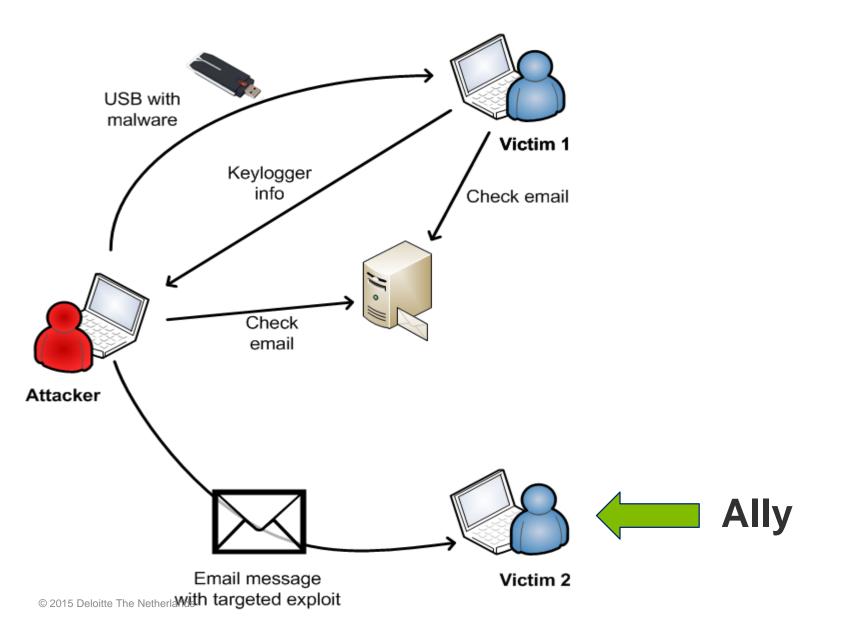
- Access e-mail
- E-mails with passwords
- Password reset option
- Passwords exchange
- Business contacts
- Access LinkedIn
- Access Twitter
- Access Facebook
- Etcetera

Step 5 Expanding privileges





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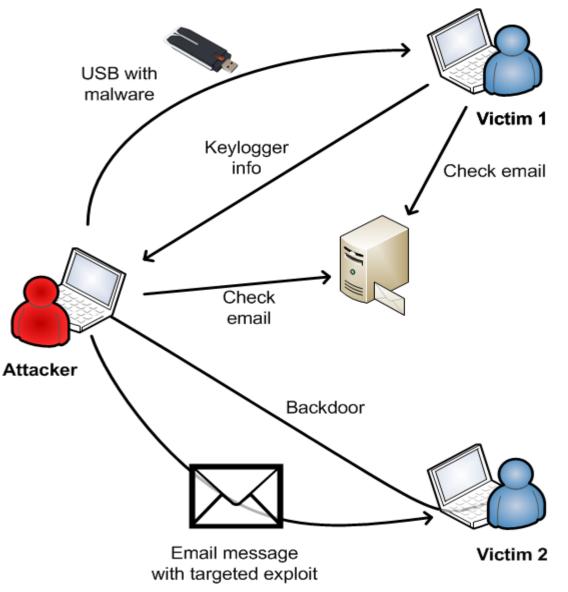


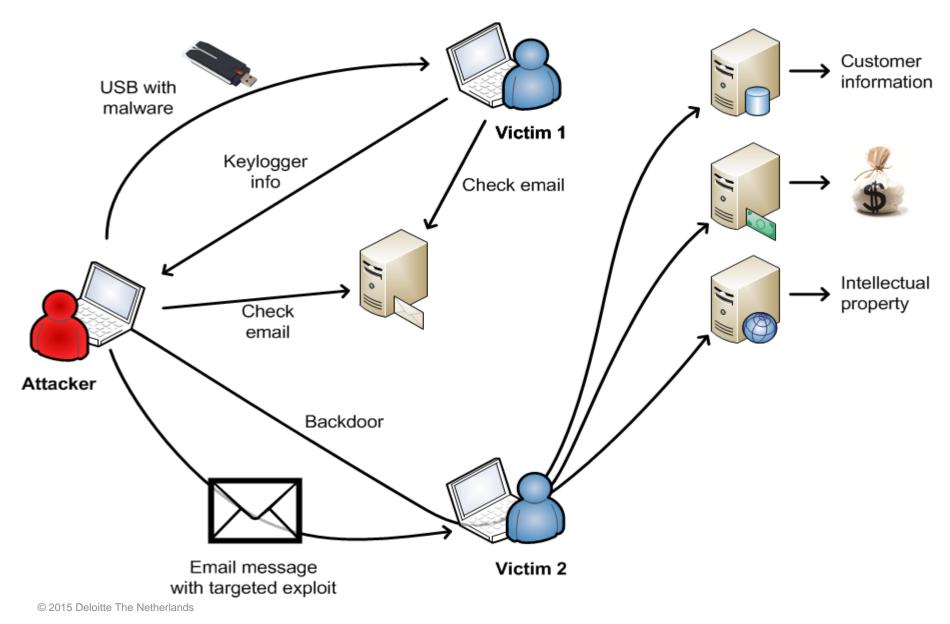
Step 6 Taking control



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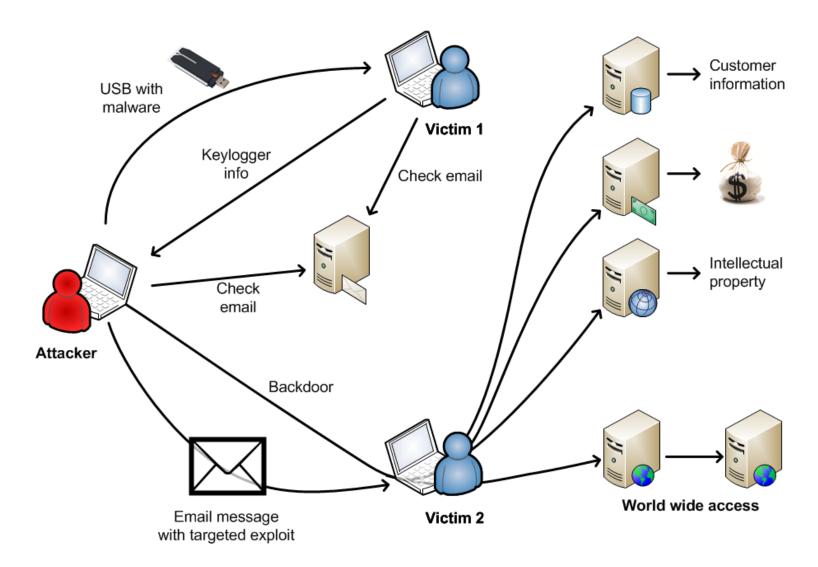


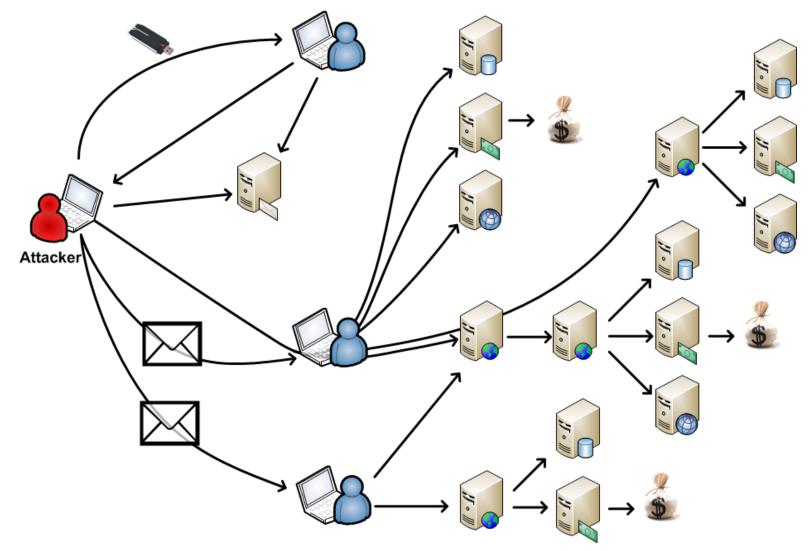




Step 7 Worldwide







Key message Resilience

Hackers vs. Defenders An asymmetric fight

Hackers

- Unlimited time, low costs
- Only one hole is sufficient
- Rules do not apply

Defenders

- Limited time, limited budget
- Time between discovery and mitigation
- Everything is connected and nobody is in charge





Assume you will be hacked.



Hacking.

Your organization will be breached How to respond?

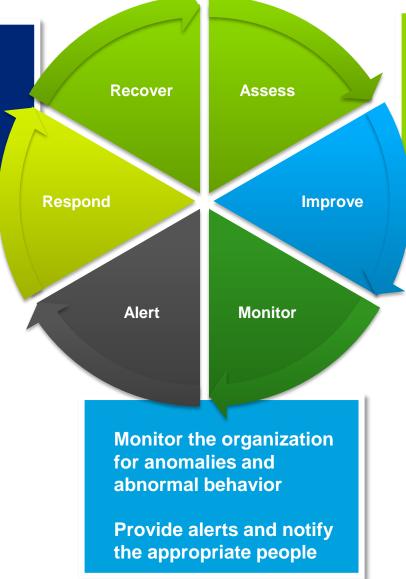
- 1. Your organization will be hacked; are you able to detect and respond?
- 2. Can you justify to your stakeholders whether your organization was in control and has gone through careful decision making process to balance risks, mitigation and costs?
- 3. Can you respond with:
 - what is going on?
 - were you aware of this risk?
 - what did you do to prevent this from happening?
 - what are you doing to contain it?



Cyber Resilience Cycle

Respond adequately to incidents

Recover to businessas-usual and limit damage



Understand the threats and the current capabilities

Implement security measures to prepare the organization

Closing remarks Q&A

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