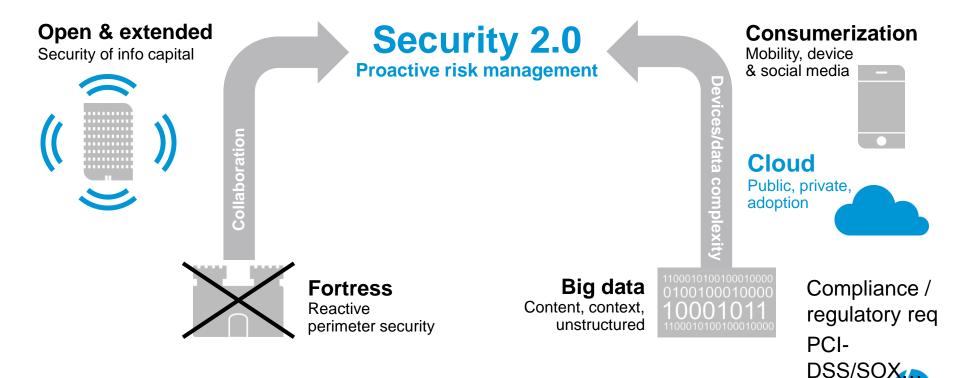


The security is in everything





90's vs Today

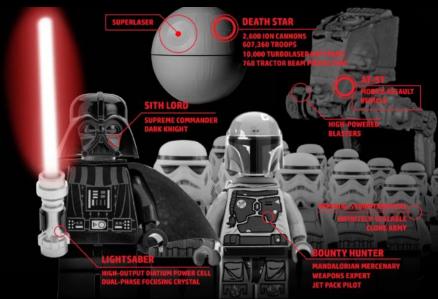






Art Gilliland





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Let me introduce to you ...

HACKTIVIST



Let me introduce to you ...

HACKTIVIST CYBERCRIMINAL



Let me introduce to you ...

HACKTIVIST CYBERCRIMINAL NATION STATE



ORGANIZE

ORGANIZE SPECIALIZE

ORGANIZE **SPECIALIZE** MONETIZE























High Profile Attack

Easy? Script kiddies generation.



Example of a High-Profile Attack: RSA Data **Breach**



5:00 AM

Finance person receives a spearphishing email



8:30 AM

Opens to see 2012 Recruitment plan with xls file



8:31 AM

RAT program downloaded utilizing Adobe Flash vulnerability



8:32 AM

Poison Ivy RAT is initiated



NEXT DAY / 2:01AM

NMAP scan to identify and classify network resources



OVER THE NEXT 10 DAYS

Collect data over a period of time



11TH DAY / 12:05 AM

Encrypt and ftp file to good.mincesur.com



12TH DAY

Attack hits the headlines



The Impact is Real...

March 17, 2011

RSA Hit By Advanced Persistent Threat

RSA has been breached and sensitive token key information from more than 40 million end users may have been compromised.



Breaches Are Costly

- RSA announced cost of breach at \$66 million
- Negative press. Loss of business and loss of trust.



May 31, 2011

Lockheed Martin Suffers Massive Cyberattack

"Significant and tenacious" attack targeted multiple defense contractors and involved hack of RSA SecurID System.



The Stakes Are High

Intellectual property loss could compromise national security



And RSA Was Not Alone...



United Nations

Cyber attack on United Nations leads to massive loss of information and posses huge economic threat.



Blackhole Exploit Injected into USPS Website

The website of U.S Postal Service serving up malware



360,000 accounts hacked in cyber attack; \$2.7 million stolen.



Barracuda Hit By Cyber Attack Attacker grabbed the information using an

SQL injection script



Sony PlayStation Network Down 77 million accounts at risk of data theft

SONY

Sony Online estimates 25 million customer accounts hacked.



Stuxnet Worm

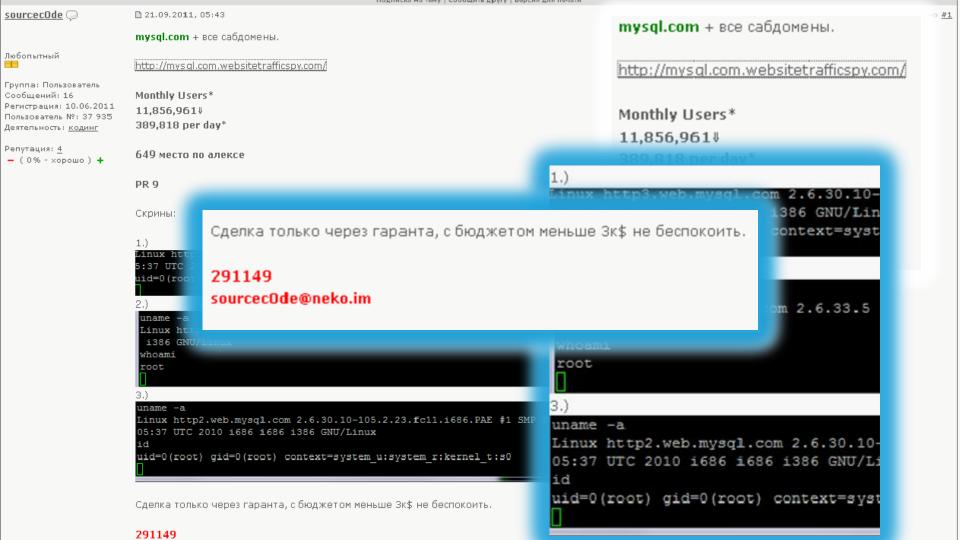
Sophisticated worm attacks Siemen's SCADA industry control systems and Windows.



Directors Desk application breached,

Web-based collaboration and communications tool for senior executives. and board members





Attacker shopping list...

- DDOS and black mail for "rich websites" or public agencies (Daňový portál v marci, Internet Banking na konci roka)
- Card-botnet in bank, automatic pay-order system, business model buyer, botnet master, sales ... From 10k to 600k
- 0-day exploits remember RSA?
- XSS, SQL injection too many doors, so little time
- Social engineering profiling by social site, get "language preference", insert malware into iframe in post
- Only credit card group make millions by year



Vanishing containers

Drugs smuggling



Drug trafficking in Antverp Port





Drug trafficking in Antverp Port – tech spec

Drug traffickers recruited hackers to breach IT systems that controlled the movement and location of containers

We have effectively a service-orientated industry where organised crime groups are paying for specialist hacking skills that they can acquire online

alleged plot demonstrates how the internet is being used as a "freelance" marketplace" in which drug trafficking groups recruit hackers to help them carry out cyber-attacks "to order".

The case is an example of how organised crime is becoming more enterprising, especially online



Drug trafficking in Antverp Port – HW

Brake into offices of shipping companies and installed devices





Drug trafficking in Antverp Port – HW part 2

Brake into offices of shipping companies and installed devices



Is your security OK?

If you feel SECURE, probably you just don't know what was stolen from you!



In theory, you are safe...

The path of least





IT Security project

It is like being married.

When its perfect, theres no thanks. When it goes wrong, boy you are in troubles!



Scope Management

includes the processes required to ensure that the project includes all the work required, and only the work required, to complete the project successfully.

Theory: Prepare equipment, install it and make it functional

Practice: Have no idea whats going on and how environment is depending on PCI-DSS compliance



Time Management

includes the processes required to manage the timely completion of the project.

Theory: In 3 months we are going live.

Practice: waiting, waiting, waiting



Cost Management

includes the processes involved in planning, estimating, budgeting, financing, funding, managing, and controlling costs so that the project can be completed within the approved budget.

Theory: We buy chepest version and few mandays. It must be enough.

Practice: Wanted full blown functionality, lot of custom coding .But, hey, its our customer, we can work for free



Human Resource Management

includes the processes that organize, manage, and lead the project team.

Theory: IT manager will be just fine.

Practice: Security manager hired in the middle of project, stating that security analyst will be hired at the end of delivery.



Risk Management

includes the processes of conducting risk management planning, identification, analysis, response planning, and controlling risk on a project

Theory: We will held meeting each week, taking risk log.

Practice: Bug and resource hunting.



When things go wrong



We should have thought of that

you already realise that the project could have been planned for or managed as a risk.



The shock of the unexpected

Top security operation center in public offices for rent.

after the initial shock, our job is to clean up as quickly and as well as we can, and then decide on the longer-term action



You may need a good lawyer

There is sensitive financial data breach, time to crawl years of emails, and documents to establish lines of defence in case negotiation fails



If one women deliver baby in 9 months, 9 women deliver in 1 month.



Thank you

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