

Did it have to be this way?

Josef Meier Manager Pre Sales Engineering Fortinet Germany

The year?







The Creeper – "Catch me if you can"...



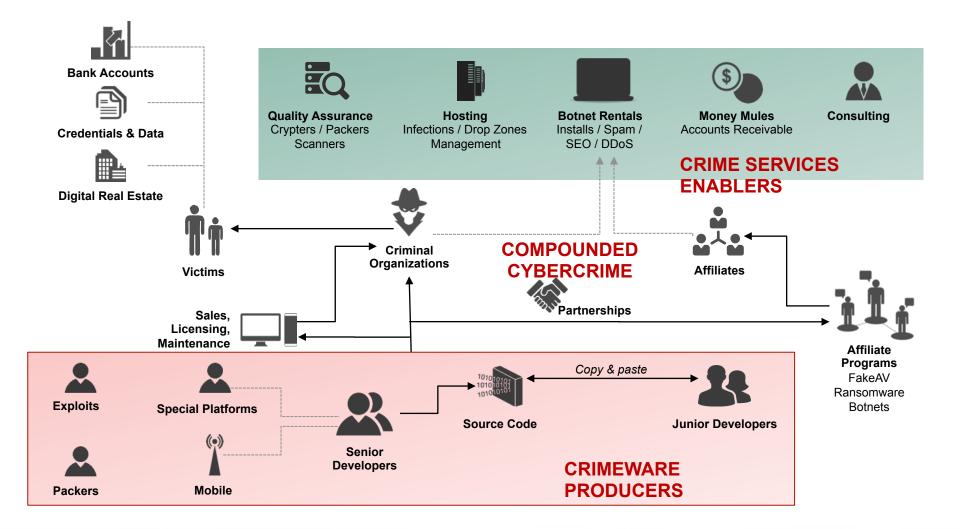
- Experimental self-replicating program
- Written in 1971 by Bob Thomas of BBN
- Infected DEC PDP-10 computers
- Just one year after unix epoch began
- 'Reaper' worm created in 1972 to delete it







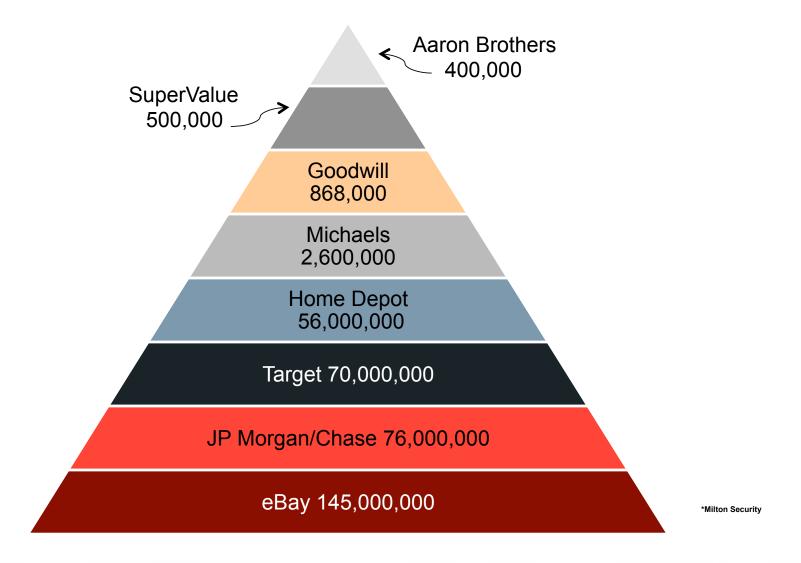
Crimeware and Crime Services





Anyone Want To Add Anything?







Point of Sale

- 2013 was the "year of the megabreach"
- Target and Home Depot made the headlines
- Between them details of 90 million credit cards stolen
- POS attacks still very prevalent small targets, large scale
- PCI 3.0 released in 2013 to reinforce protection





Finding the Common Thread



http://www.bloomberg.com/bw/articles/2014-03-13/ target-missed-alarms-in-epic-hack-of-credit-carddata#p2

http://krebsonsecurity.com/2014/02/target-hackers-broke-in-via-hvac-company/

JP Morgan/Chase – Stolen employee credentials

http://www.computerworld.com/article/2862578/ twofactor-authentication-oversight-led-to-jpmorganbreach-investigators-reportedly-found.html

Home Depot Stolen login credentials from Third party vendor

http://krebsonsecurity.com/2014/11/homedepot-hackers-stole-53m-email-addreses/

http://www.eweek.com/security/home-depotbreach-expands-privilege-escalation-flaw-toblame.html



Industrial Malware

- Havex the sequel to Stuxnet
- RAT (remote administration tool)
- Harvests information on hardware control systems (SCADA)
- OPC OLE for Process Control
- Communication between Windows and control hardware
- OPC servers control machines via PLC

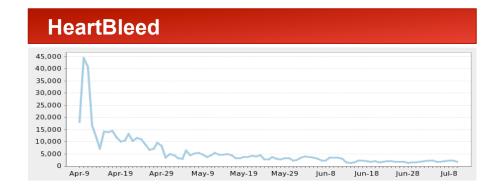
Stuxnet-like 'Havex' Malware Strikes European SCADA

Systems



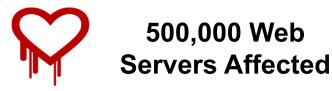


Server-side Attacks





____ Devices



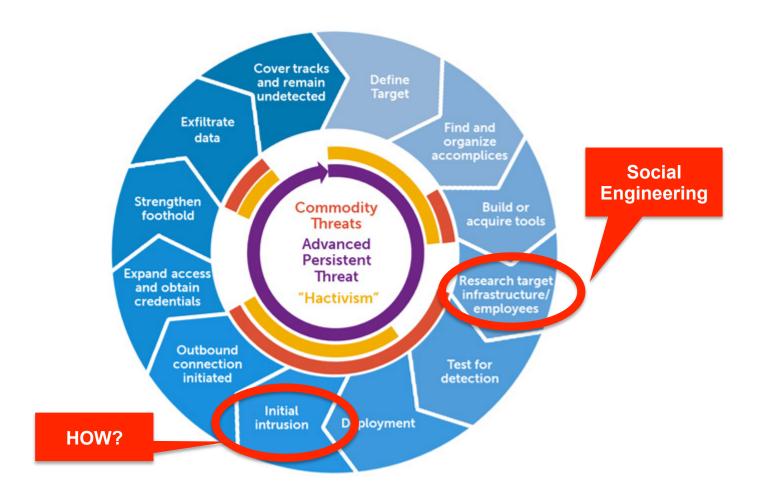
Time to Protect Critical Surge in attacks while fresh

Millions of Internet
Connected Devices
Affected Shellshock



Advanced Persistent Threat Structure





*Wikipedia Commons

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Exploiting the Weak Link

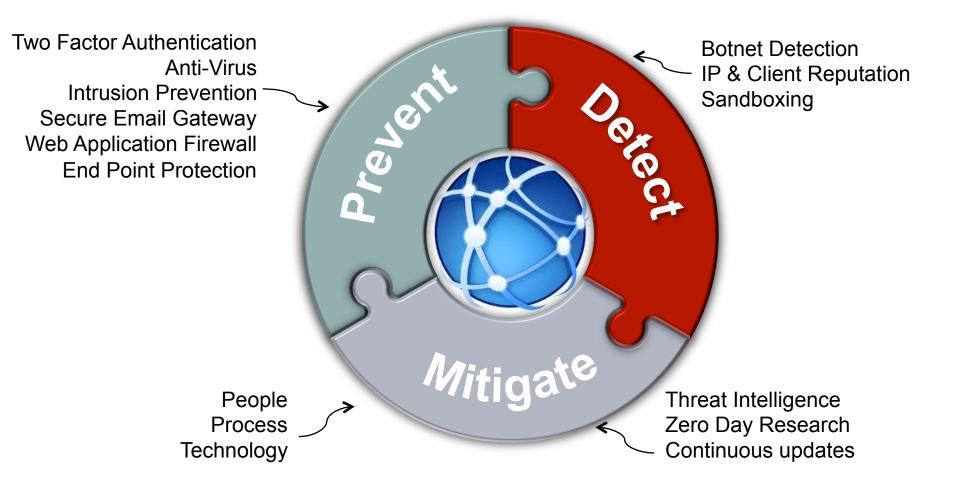






The Technology Side of Things

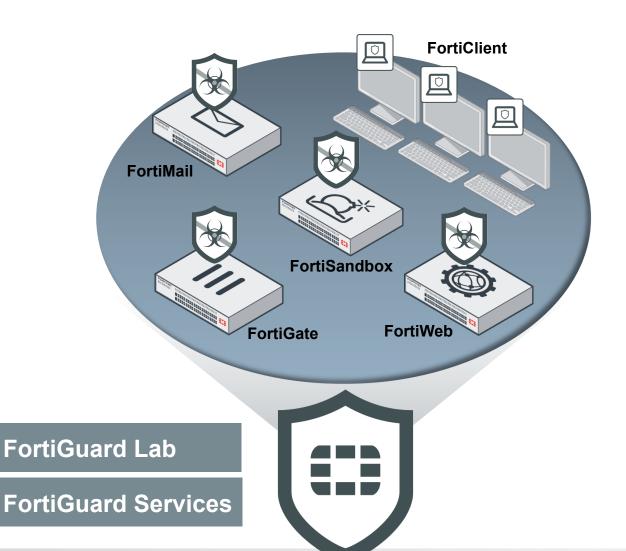






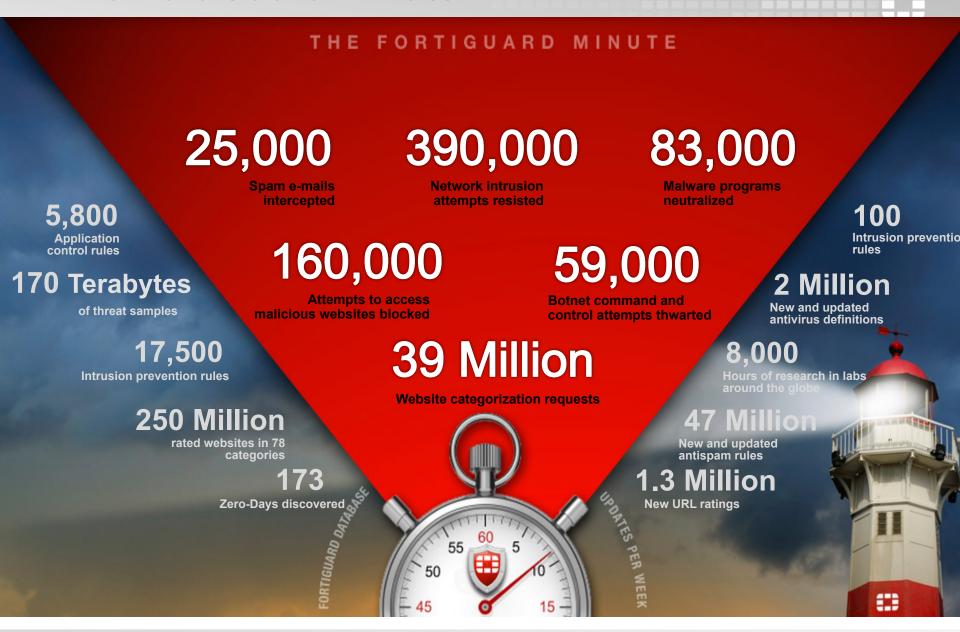
Advanced Threat Protection







The FortiGuard Minute



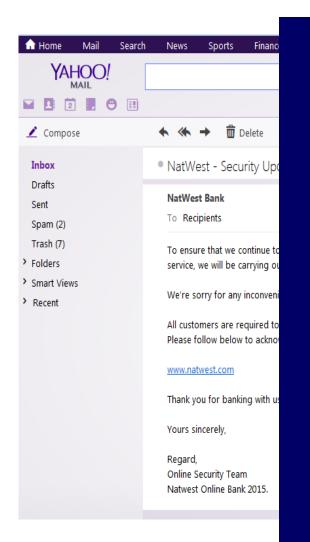


FAST, SECURE, GLOBAL,

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So What Do We Do With Dave?





Date: Thu, 15 Jan 2015 15:07:19 +0100

From: "Internal Revenue Service" < complaints@irs.gov>

To: <rpastore@cxo.com>

Subject: Complaint against your company

Dear business owner,

A criminal complaint has been filled against your company.

Your company is being accused of trying to commit tax evasion schemes.

The full text of the complaint file (PDF type) can be viewed on the IRS website, by visiting the following link:

http://www.irs.gov/complaints/view_complaint.aspx?complaint_id=931998&hash=329yt8dhui8q14

An official response from your part is required, in order to take further action.

Please review the charges brought forward in the complaint file, and contact us as soon as possible by:

Telephone Assistance for Businesses:

Toll-Free, 1-800-829-4933

Email: complaints@irs.gov

Thank you,

Internal Revenue Service

Fraud Prevention Department



Training To Raise Awareness

http://
krebsonsecurity.com/
2012/01/phishing-youremployees-101/

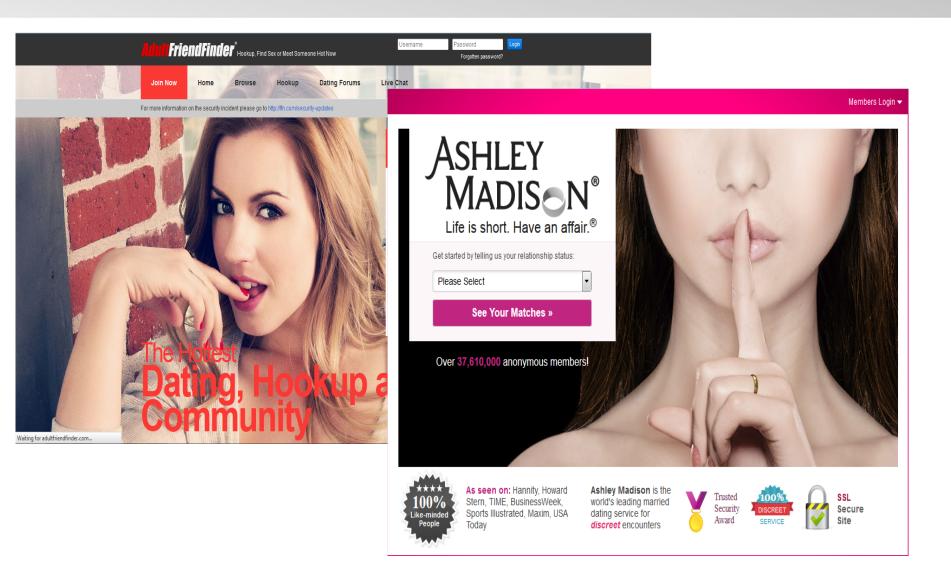
- Policy
- Procedure
- Process





And At the Opposite End of the Spectrum...







Looking Forward

- Technology is only part of the solution
- Single vendor solutions may provide an advantage
 - But only if elements actually work together
- Remember your network extends beyond you
 - Remote employees, third party suppliers and contractors
- Your employees are the first line of defense
 - Equip and use them
- **Never assume**
 - You're fully protected
 - The network hasn't already been breached





Understanding the Data Breaches of 2014: Did it have to be this way?

Vielen Dank!

