RSA Conference 2015 Singapore | 22-24 July | Marina Bay Sands

SESSION ID: SPO-R08

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



Patrick Grillo

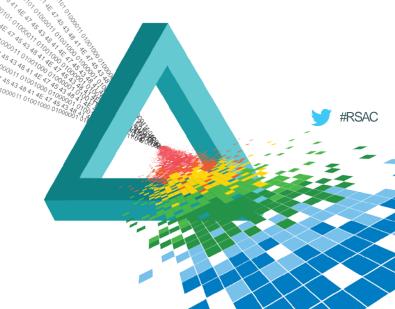
Senior Director, Product Strategy
Fortinet



RS∧°Conference2015

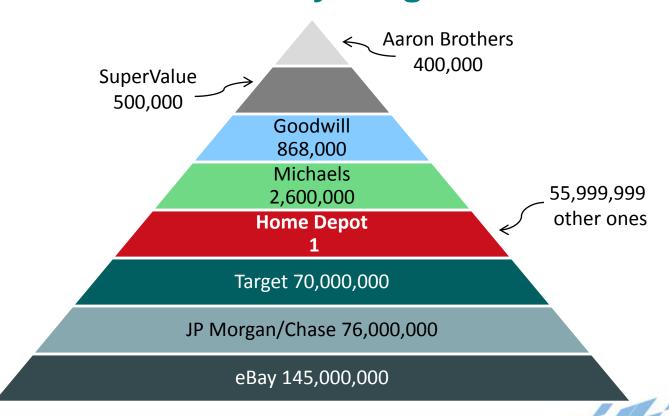
Singapore | 22-24 July | Marina Bay Sands

Embedded Video to be placed here at RSA





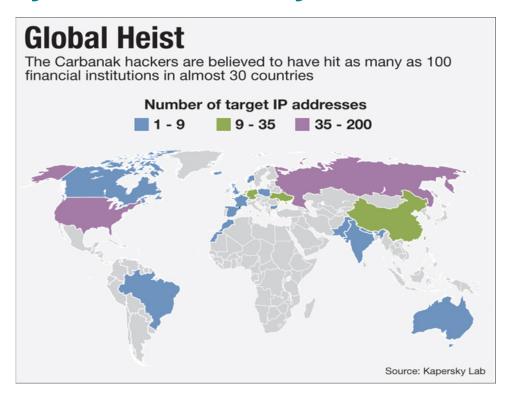
Anyone Want To Add Anything?







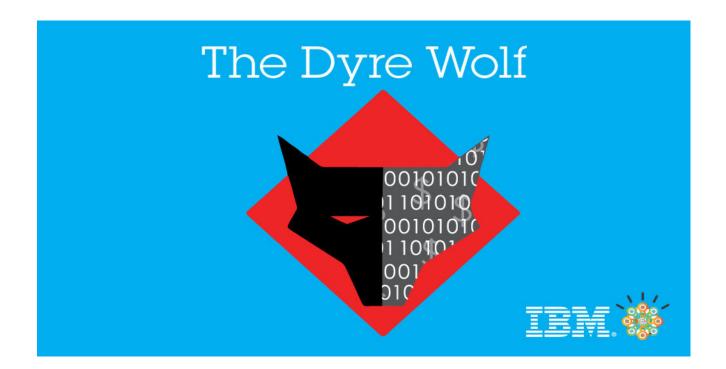
21st Century Bank Robbery







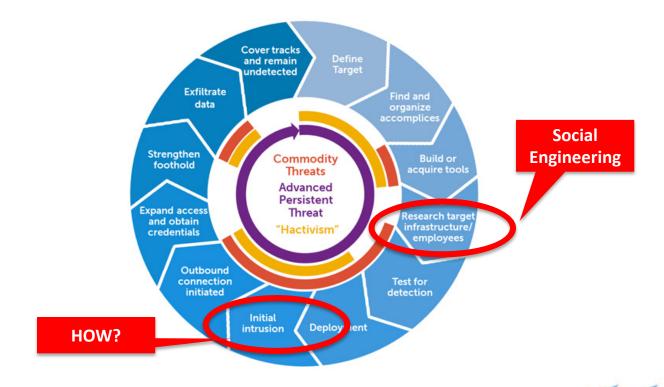
Not Just in the Game of Thrones







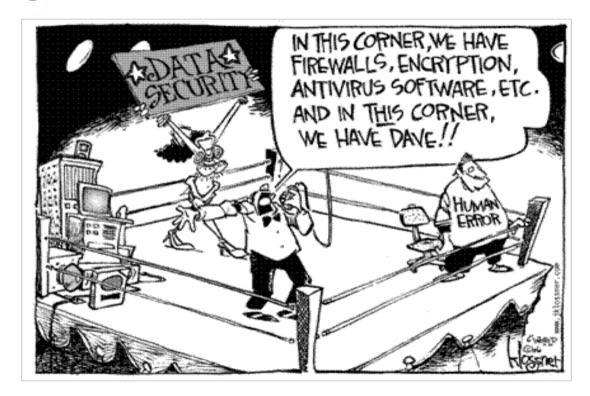
Advanced Persistent Threat Structure







Exploiting the Weak Link







The Common Thread

Target:

Outside contractor clicks on phishing email

http://www.bloomberg.com/bw/articles/2014-03-13/targetmissed-alarms-in-epic-hack-of-credit-card-data#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-jpmorgan-breachinvestigators-reportedly-found.html

Home Depot: Stolen login credentials from Third party vendor

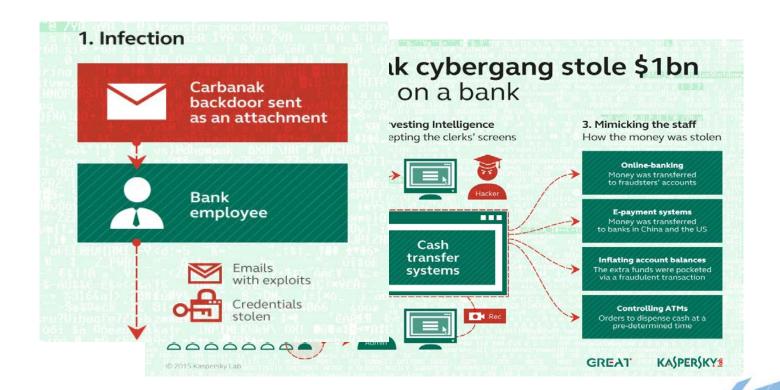
http://krebsonsecurity.com/2014/11/homedepot-hackers-stole-53m-email-addreses/

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





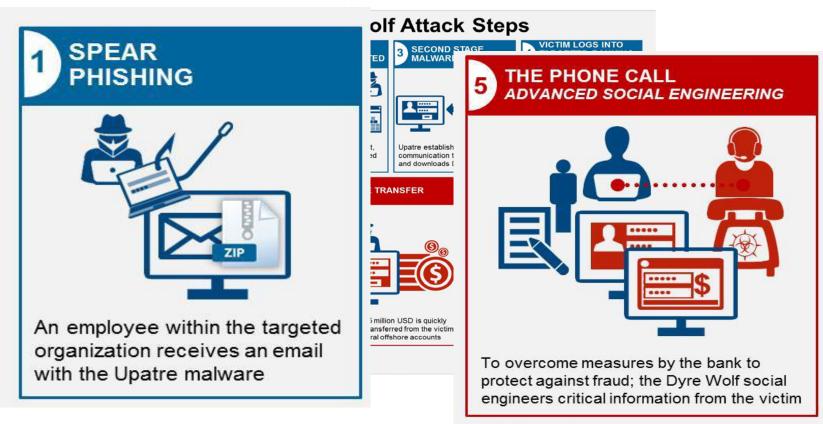
Cyber Crime on a Global Basis







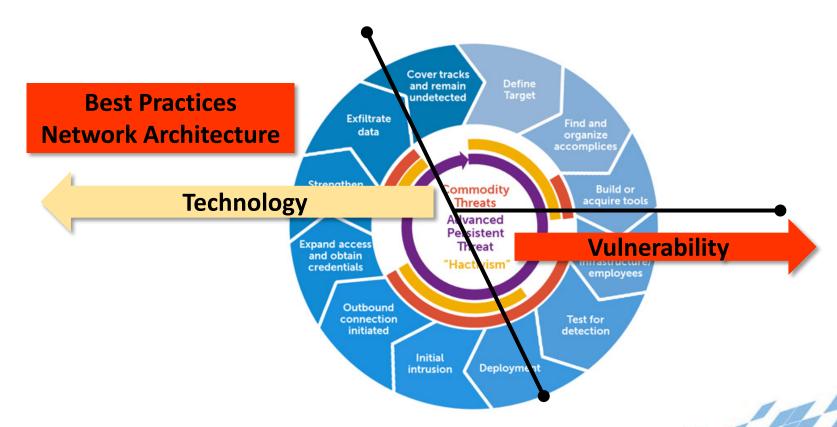
Not Just for Consumers







Let's Take a Closer Look







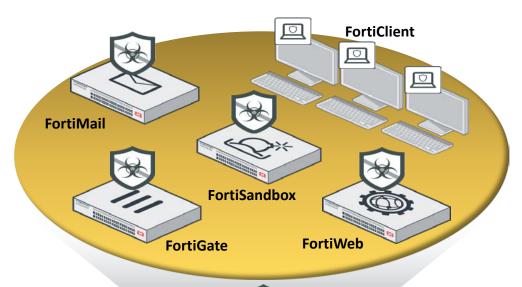
The Technology Side of Things

Two Factor Authentication Anti-Virus **Botnet Detection Intrusion Prevention** IP & Client Reputation Secure Email Gateway Sandboxing Web Application Firewall **End Point Protection** Mitigate People Threat Intelligence **Process** Zero Day Research **Technology** Continuous updates





Advanced Threat Protection



FortiGuard Lab

FortiGuard Services







Protecting Deeper Into the Network



"Oh, hey! I just love these things! ... Crunchy on the outside and a chewy center!"







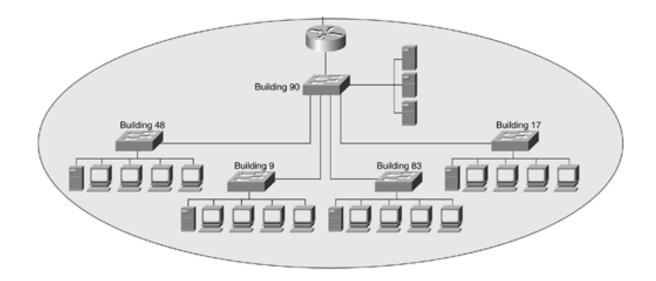
#TEISS15: How to control shadow IT initiatives

What do Igloos and the networks have in common? Patrick Grillo, senior director of solutions marketing at Fortinet, says "they...





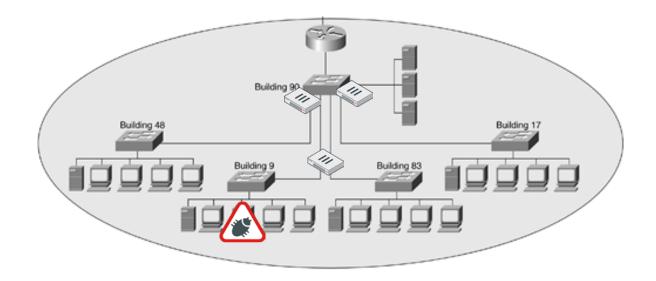
Internal Segmentation For Greater Control







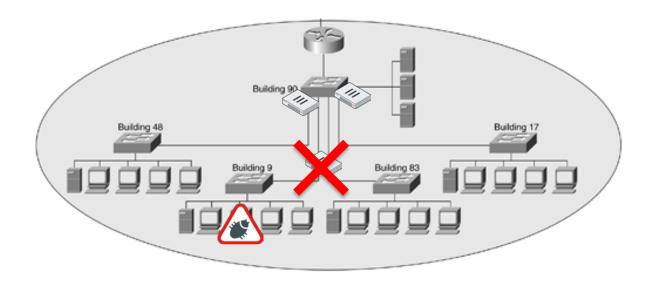
Internal Segmentation For Greater Control







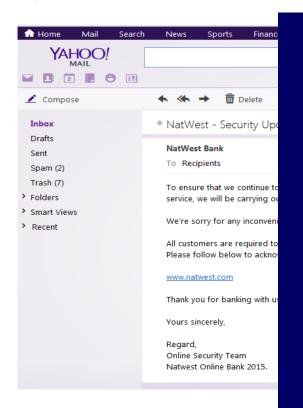
Internal Segmentation For Greater Control







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-your-employees-101/

- Policy
- Procedure
- Process







Just When You Thought it Was Safe



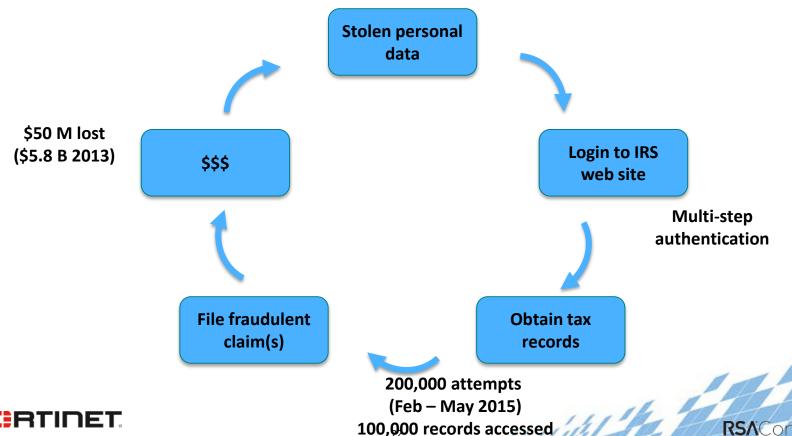
Department of the Treasury Internal Revenue Service

http://www.nytimes.com/2015/05/27/business/breach-exposes-irs-tax-returns.html? r=0





Some But Not Enough Security

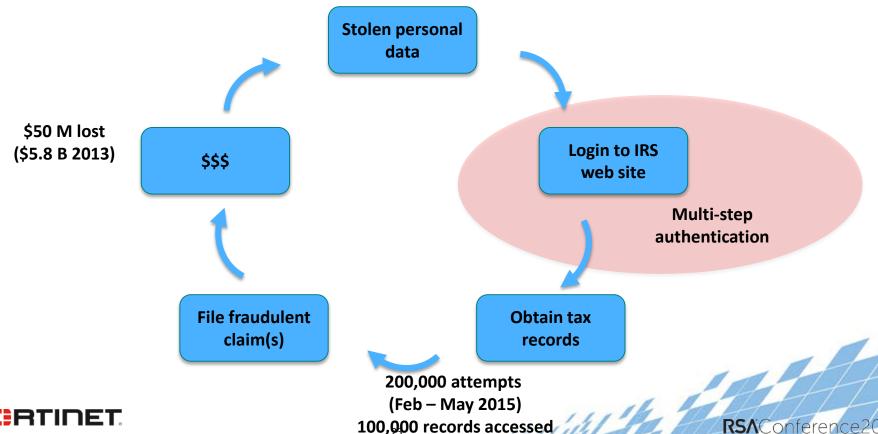




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Some But Not Enough Security

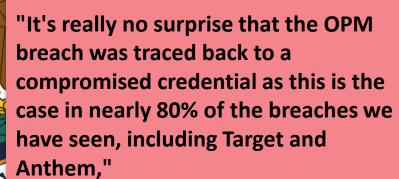






Not a Good Summer for the US Government

"OPM director said stolen passwords for a federal contractor were used by hackers in the two cyber attacks targeting federal employee data."



Idan Tendler, head of Fortscale

http://krebsonsecurity.com/2015/06/ /catching-up-on-the-opm-breach/





Looking Forward

- Technology is only part of the solution
- Consider single vendor solutions 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 been breached

