Understanding and Managing Your Threat Landscape

Eric Kurnie, SVP, Wells Fargo Cybersecurity Essentials – E11



SF ISACA FALL CONFERENCE NOVEMBER 9-11, 2015 HOTEL NIKKO-SAN FRANCISCO

CHANGING RISK LANDSCAPE



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Cyber History



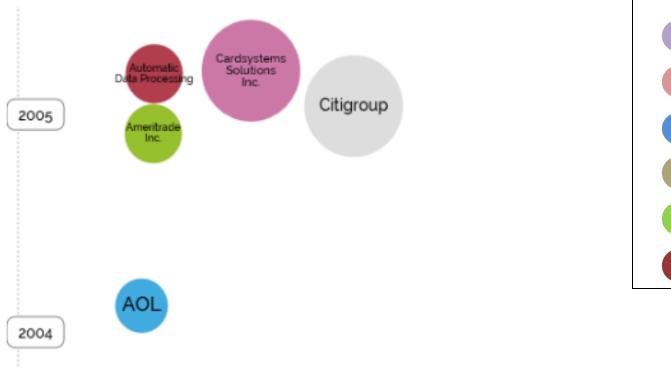


Cyber Current





World's biggest data breaches: 2004 - 2005

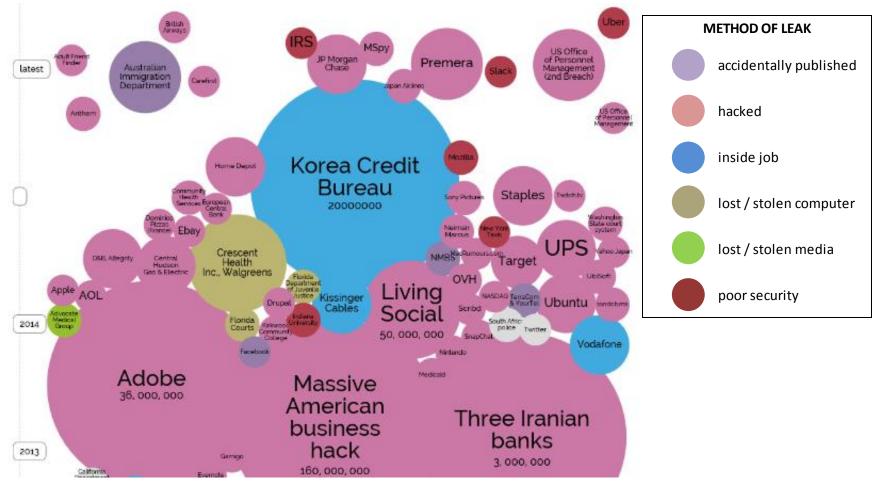




Source: <u>www.informationisbeautiful.net</u>. World's Biggest Data Breaches



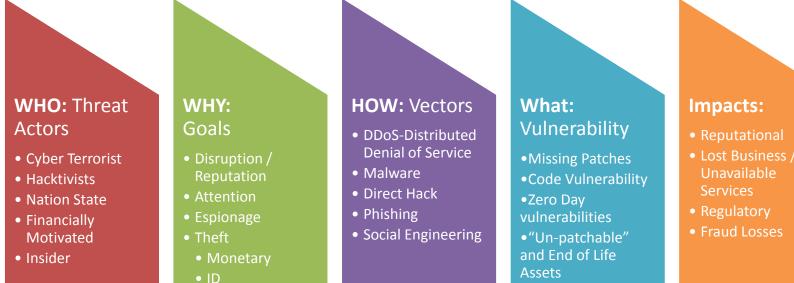
World's biggest data breaches: 2013 - 2015



Source: <u>www.informationisbeautiful.net</u>. World's Biggest Data Breaches



Who, Why, How, What, Impacts...



• Revenge

• Data Back up and Recovery

- Lack of Encryption
- •Human issues
- •ID and Access
- Mgmt
- Password

Mgmt

• Lost Business /



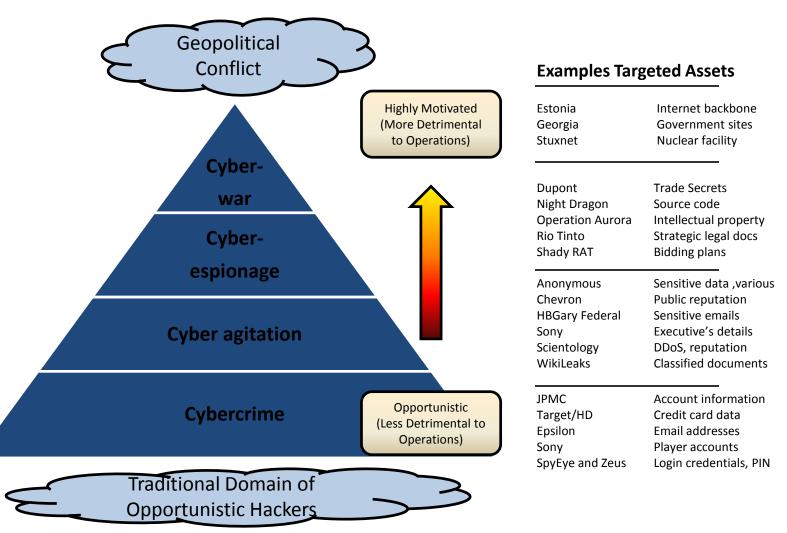
THREATS



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Threat Landscape





Opportunistic Hackers





Cybercrime





Cyber Agitation



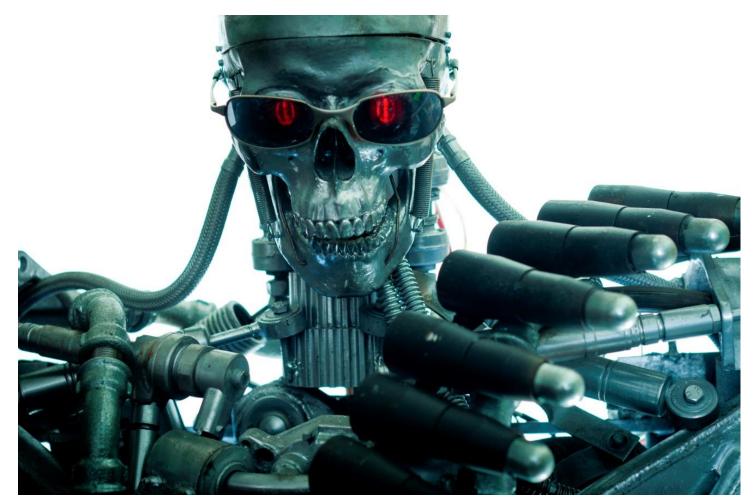


Cyber Espionage



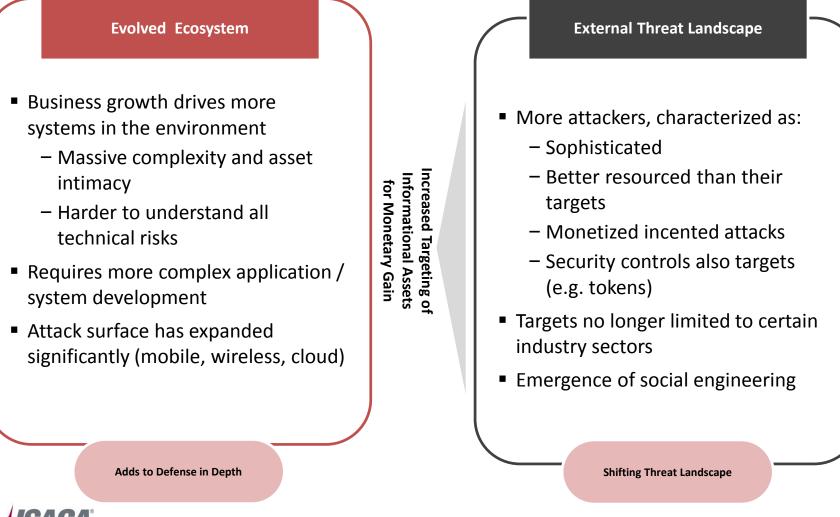


Cyber War





Today's Financial Industry Security Threat Landscape



Trust in, and value from, information systems San Francisco Chapter

The price of a data breach

Scottrade Stock Trading Service Hacked

possibly affecting 4.6 million customers

- October 2015

Anthem Hacked Nearly 80 million Anthem members impacted

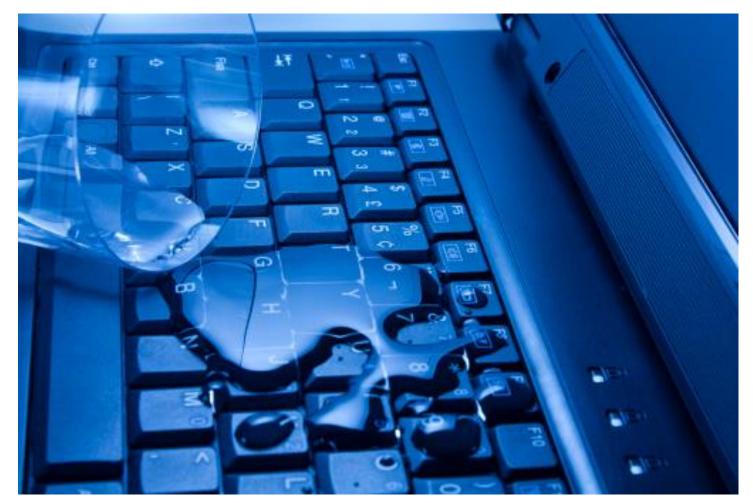
- February 2015

JP Morgan Chase Cyberattack affected 76 million households

- July 2014



Miscellaneous Errors



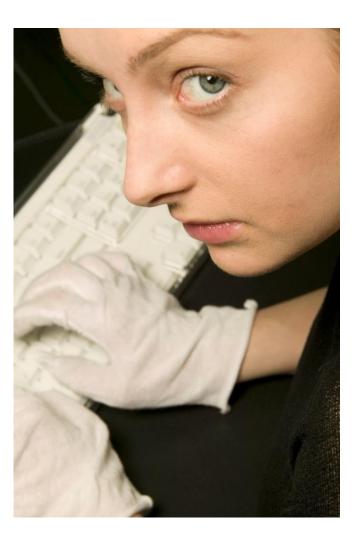


Crimeware





Insider Misuse





VULNERABILITIES



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Don't be a... (video)





https://www.youtube.com/watch?v=nPR131wMKEo

Passwords





Password1?



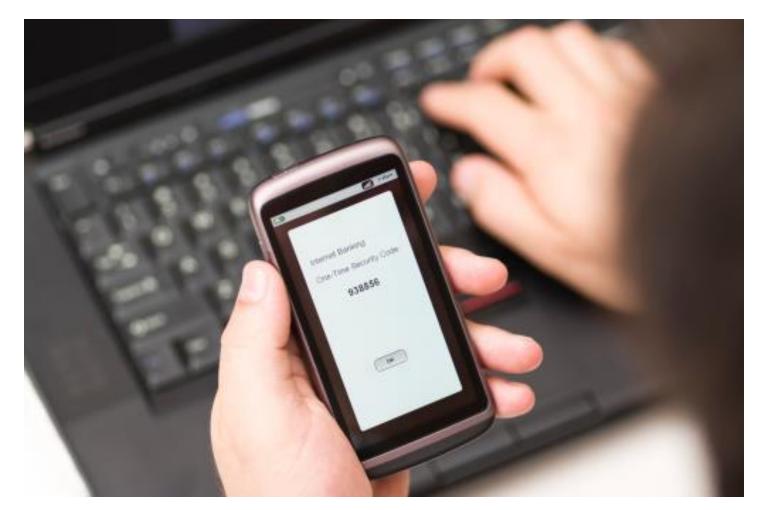


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Passwords – additional controls



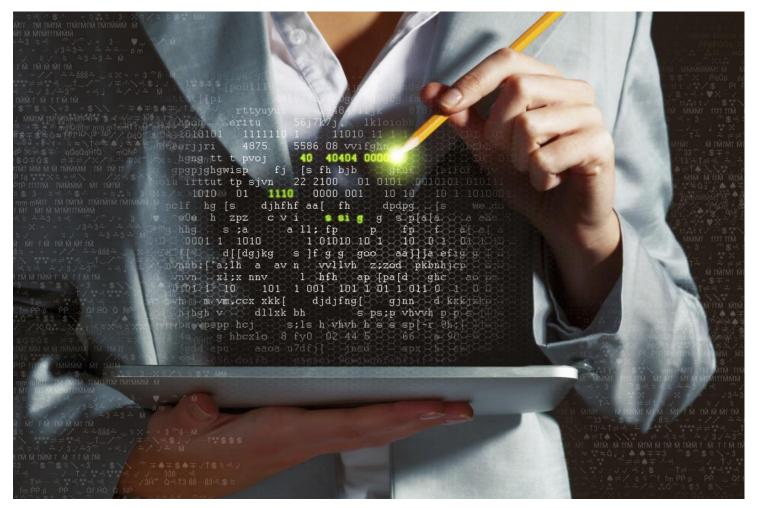


Social Engineering



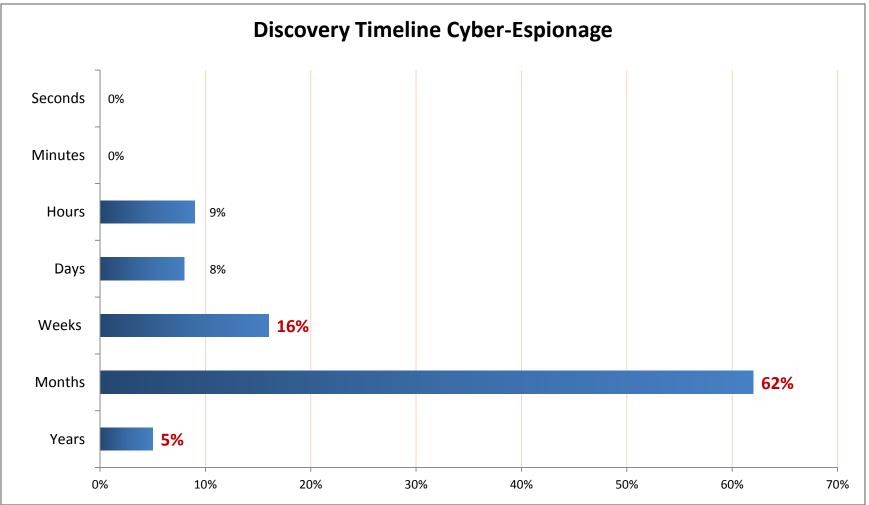


Published Vulnerabilities





83 percent+ of compromises go undetected for long periods of time





2015 Fall Conference – "CyberSizeIT" November 9 – 11, 2015 Source: Verizon 2014 Data Breach Investigations Report

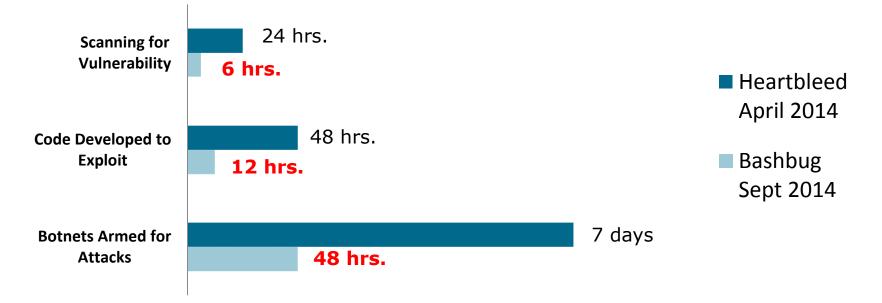
Zero-Day Vulnerabilities





Attackers moving at an increasing speed

In five months, the attacker's average time to exploit was reduced by almost two-thirds

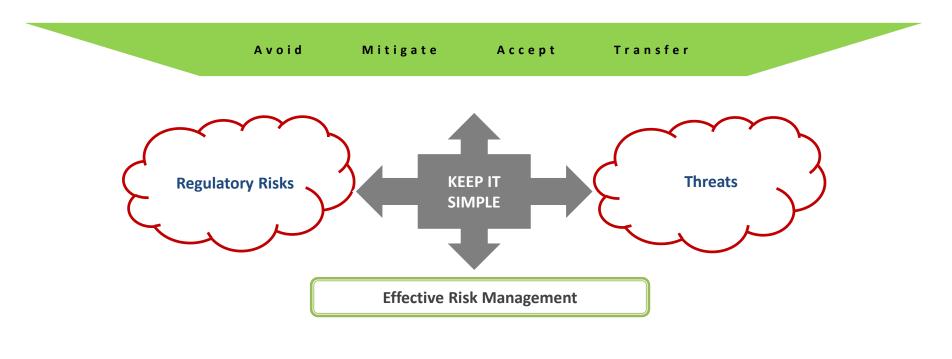


* Data points compiled from several public sources



Managed evolution results in effective risk management

Focus on the current state of risk and the impact that the evolving risk landscape, new technologies, and business processes present during this journey.





Conclusion





QUESTIONS? COMMENTS?

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