Cyber Security for Benefits – Version 2.0





BIO



CODY GRIFFIN, CPA, CITP, CISA
IT ADVISORY & RISK ASSURANCE PARTNER

Cody began his career in the risk assurance and advisory practice of PricewaterhouseCoopers and joined HoganTaylor in 2013. He is a CPA, CITP and CISA with over 14 years of experience in both public and private industry. Cody's industry experience includes information technology, telecommunications, retail, financial institutions, energy, higher education and transportation. His areas of practice include Sarbanes-Oxley (SOX) Section 404, IT audit, business process reviews, service organization control audits (SSAE 16), Fraud reviews, agreed upon procedures, internal audit assurance services and compliance audits. Cody leads firm in providing "Attack & Penetration" services, which assists HoganTaylor clients in identifying vulnerabilities in their IT infrastructure. Cody graduated from Oklahoma State University with a B.S. in Accounting and received his M.B.A. from Texas Tech University in Management Information Systems.



Session Overview

- > IT Security Risks
 - Network Attacks
 - Recent Attacks / Data Breaches
 - Cost of a Data Breach
 - Social Engineering
- Cybersecurity and Employee Benefit Plans
 - Choosing and Monitoring Service Providers
 - Protecting Data
 - Staying Up-to-Date on Industry Standards
 - Cyber Liability Insurance



Statistics

Sobering statistics



The frequency and sophistication of cybersecurity attacks are escalating





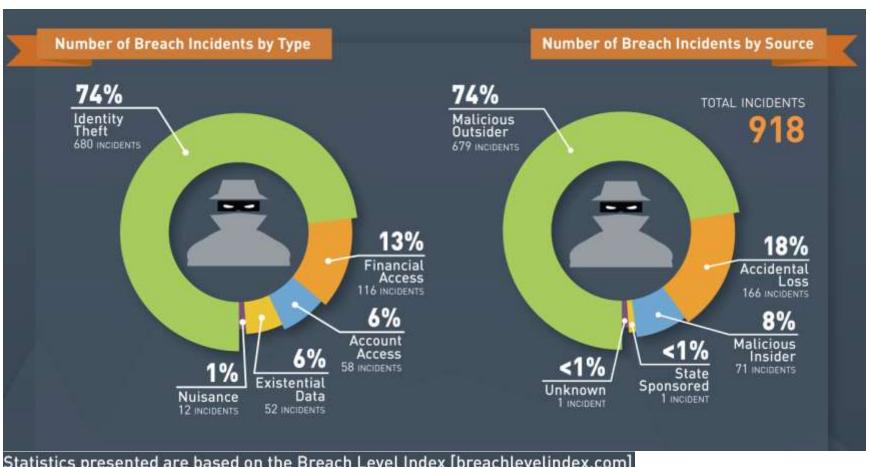


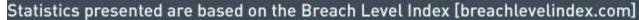














Social Engineering



Social Engineering Attack

Because There Is No Patch To Human Stupidity

www.greenhacherz.com



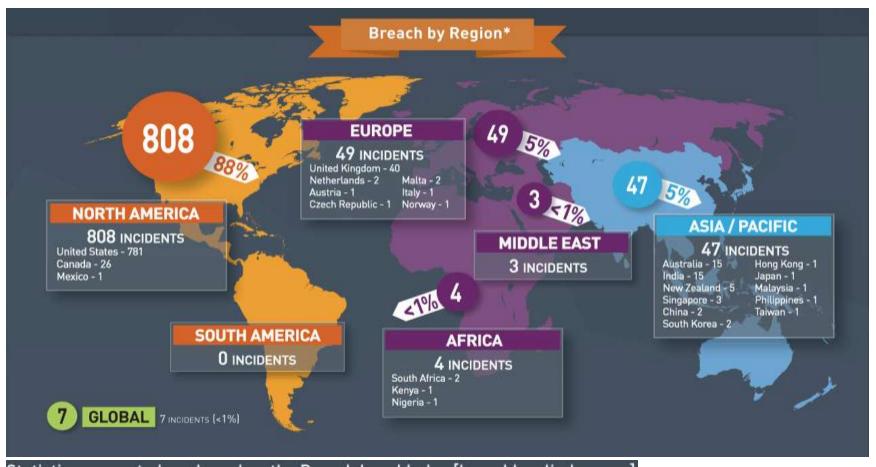
Ransomware



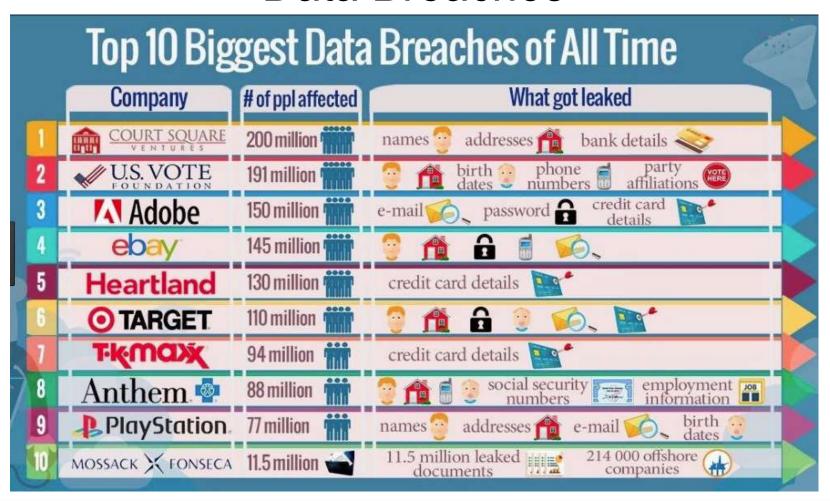












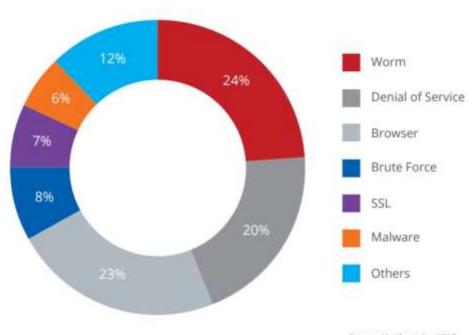


Showi	ng 1 to 10 of 1,034 entries								
Rank	II. Organization Breached	Records Breached	Date of Breach	Type of Breach	Source of Breach	Location	Industry	Risk Score	
	Motor Vehicles Department in Kerala	200,000,000	05/01/17	Nuisance	Malicious Outsider	India	Government	9.9 🗈	
	River City Media	1,340,000,000	03/06/17	Nuisance	Accidental Loss	United States	Other	9.8 🖪	
	Deep Root Analytics/ Republican National Committee	198,000,000	06/13/17	identity Theft	Accidental Loss	United States	Government	9.6 🕏	
	New Oriental	20,000,000	03/22/17	Identity Theft	Malicious Insider	China	Education	9.4 =	
	Center for Election Systems at Kennesaw State University	7,500,000	03/03/17	Identity Theft	Malicious Outsider	United States	Education	9.1 🔮	
	Avison Young	9,700,000	01/04/17	Identity Theft	Malicious Insider	United States	Other	9.1 🗈	
	Zamato	17,000,000	05/04/17	Account Access	Malicious Outsider	Global	Social Media	9.1 🌞	
	The National Health Service (NHS)	26,000,000	03/17/17	Identity Theft	Accidental Loss	United Kingdom	Healthcare	9.0 🛎	
	America Joblink Alliance	4,800,000	03/21/17	Identity Theft	Malicious Outsider	United States	Technology	8.9 🛎	
10	Kansas Department of Convinerce System	5,500,000	03/06/17	Identity Theft	Malicious Outsider	United States	Government	8.9 🗈	



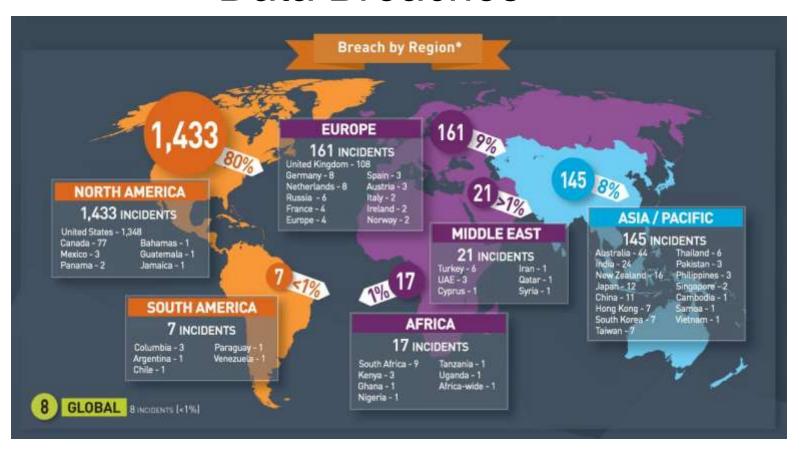
Network Attacks





Source: McAfee Labs., 2017.





Gemalto







NUMBER OF BREACH INCIDENTS BY INDUSTRY OVER TIME

INDUSTRY	H1 2013	H2 2013	H1 2014	H2 2014	H1 2015	H2 2015	H1 2016	H2 2016	H1 2017
Healthcare	176	170	240	209	237	214	303	229	228
Financial Services	79	86	87	126	155	123	145	97	125
Education	8	28	86	88	102	64	110	58	118
Retail	56	41	82	115	131	109	122	125	112
Government	131	65	113	180	161	137	157	125	89
Technology	55	57	73	67	60	63	119	82	76
Other Industries	152	111	138	137	177	140	130	47	53
Industrial		*9	\$ *		0	0	17	- 11	35
Entertainment		*6	\$ #		3	2	18	10	32
Hospitality	1	0	0	0.5	1	0	15	15	19
Non-Profit		粉	₩		0	0	10	10	15
Insurance		*	*		1	3	8	6	10
Social Media		*3	*	11	1	0	1	0	6
TOTALS	658	558	819	924	1,209	853	1,155	815	918

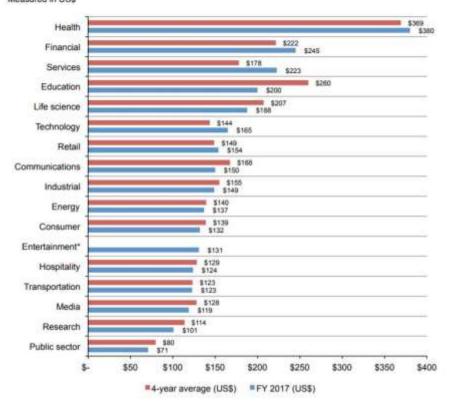
Source: BREACHLEVELINDEX.COM



Cost of a Data Breach

Figure 5. Per capita cost by industry classification

"Historical data are not available for all years Measured in US\$



IBM / Ponemon Institute 2017



Cyber Security and Employee Benefit Plans

- DOL has begun raising concerns
- Responsibility for cyber security resides with the Plan administrator





Cyber Security and Employee Benefit Plans

Choose and monitor service providers

Implement procedures to protect data

Stay up to date on industry best practices

Explore
Cyber
Liability
Insurance



Choosing new service providers and continuous monitoring

Questions to ask How do you manage electronic data?- both in flight (being manipulated or moved) and at rest (sitting in storage)

to ask your service provider

How do you secure the physical hardware storing the data?- including the facility, printers and portable hardware (laptops, tablets, smartphones)

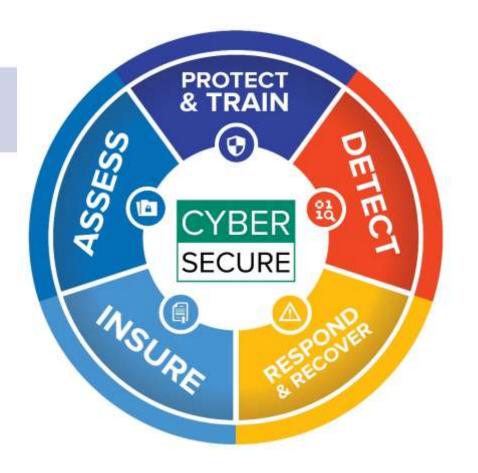
How do you manage your employees that interact with the data?- the "Human Factor"

How do you monitor for suspicious activity?

How do you react to potential security breaches?

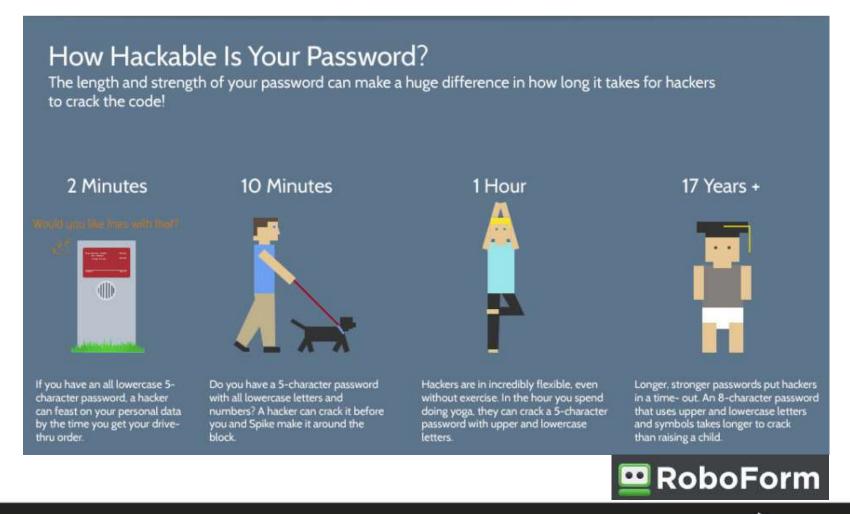
Note: Most of this information is covered in your service provider's SOC1 report, which should be reviewed annually.







What can we do?





Cloud / Third-party Service Providers

PROTECTING YOUR DATA WHEREVER IT GOES

The top 4 places your files are at risk



SECLORE Sectore, an awa

Sectore, an award-winning provider of information-centric security solutions, helps organizations achieve their security, privacy and compliance objectives through its innovative Information Rights Management software. Learn more at www.sectore.com

Sources: http://webconsecurity.com/haghone-depot-breach/ I 2014 US State of Cybercime Survey I http://www.plateautei.com/wineless_stolen_phones.asp i http://www.darkreading.com/hinck/e-security-lags-byoddid-i-di/11/2902 http://www.esecurity-planet.com/windle-security-lags-byoddid-i-di/11/2902 http://www.esecurity-planet.com/windle-security-lags-byoddid-i-di/11/2902 http://www.esecurity-planet.com/windle-security-lags-byoddid-i-di/11/2902 http://www.esecurity-planet.com/windle-security-lags-byoddid-i-di/11/2902 http://www.esecurity-planet-byoddid-i-di/11/2902 http://www.



Implement procedures to protect data

Use caution when handling participant information (social security numbers, dates of birth, email addresses, etc.)

Limit access to participant's online personally identifiable information to few individuals

Know your company's cyber security policy

Appropriately destroy hard copies of documents





Stay up to date on industry best practices

Explore current legal and regulatory concerns

Understand the applicable state laws should there be a data breach

Attend seminars in person and on the web

Regularly review updates on the IRS and DOL websites

Consider engaging an attorney with ERISA expertise



Explore cyber liability insurance

Understand what your general business insurance policy does and does not cover

Cyber liability insurance helps mitigate the administrative, technological and legal costs of a data breach

Can help provide the Plan with experienced attorneys, forensic experts and public relations professionals



Good Luck!





Questions / Contact Information

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