

# Cyber Security Issues for Employee Benefit Plans

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# BIO



**CODY GRIFFIN, CPA, CITP, CISA**

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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

- Statistics Update
- Training Employees to Properly Handle Data
- Managing Risk
- What to Do When a Breach Occurs
- How to Manage the Weak Links

# Statistics

Sobering statistics



The frequency and sophistication of cybersecurity attacks are escalating

# Data Breaches



Statistics presented are based on the Breach Level Index [[breachlevelindex.com](http://breachlevelindex.com)]

# Data Breaches

DATA RECORDS COMPROMISED IN FIRST HALF OF 2017

1,901,866,611

10,507,550  
records lost or stolen  
every day



437,815  
records  
every hour



7,297  
records  
every minute



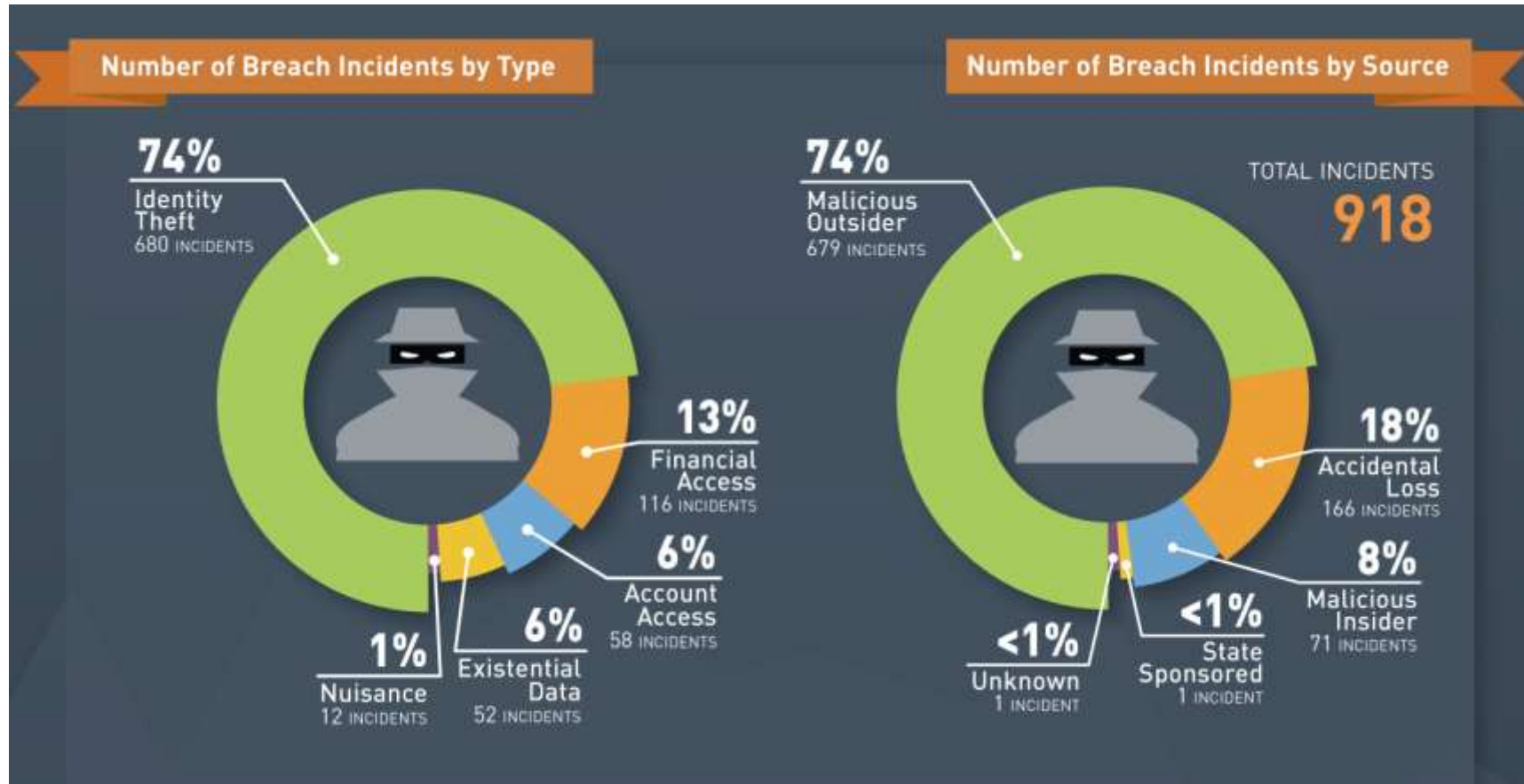
122  
records  
every second



LESS THAN **5%** of breaches were “**Secure Breaches**” where **encryption** rendered the stolen data useless

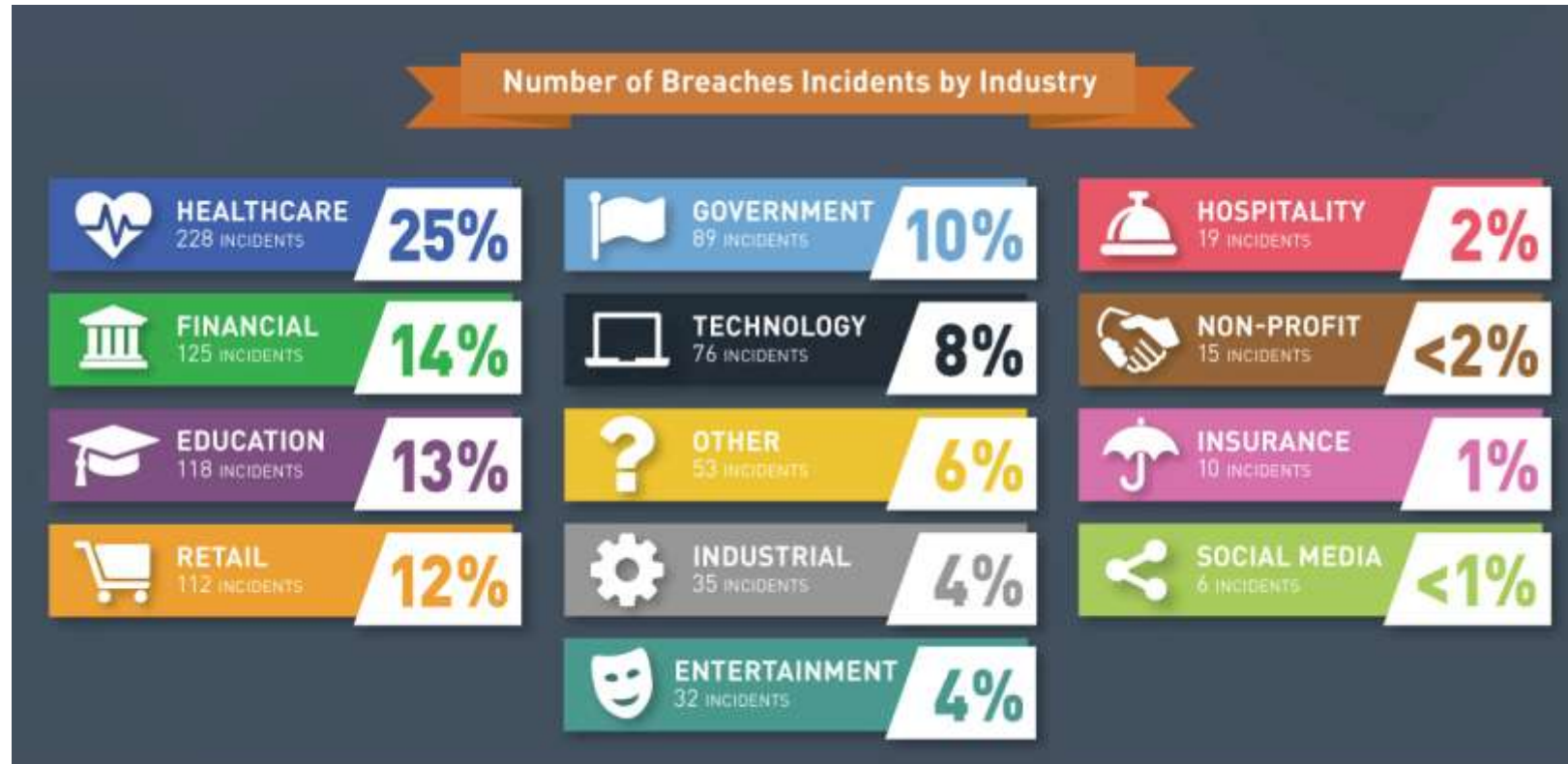
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The background is a dark blue digital interface with various panels and icons. Panels include '12.123.82.34 CONNECTED', 'CHECKING', 'NETWORK', 'PROJECT LINE', '02', 'HACK ATTEMPT FAILED', 'CONNECTED', 'PROCESSING', 'USER SAFE', and 'SCAN NETWORK'. There are also icons for a shield, a fingerprint, a target, and two human figures. The overall aesthetic is high-tech and data-oriented.

# Training Employees To Properly Handle Data



# Social Engineering



Social Engineering Attack

Because There Is No  
Patch To Human  
Stupidity

[www.greenhackerz.com](http://www.greenhackerz.com)

# JUST SAY NO!





# Managing Risk Responsibility for Cyber Security Resides with Us!





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# 10 CYBERSECURITY QUESTIONS TO CONSIDER

1. Has your organization defined and prioritized your most valuable information assets?

# Where is your data?







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# 10 CYBERSECURITY QUESTIONS TO CONSIDER

2. Has your organization developed a cross-functional cybersecurity risk advisory committee?



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# 10 CYBERSECURITY QUESTIONS TO CONSIDER

3. Have you performed vulnerability and penetration tests on the organization's network within the past year?



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# 10 CYBERSECURITY QUESTIONS TO CONSIDER

4. Does your organization provide annual or more frequent cybersecurity education and training to your employees?



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# 10 CYBERSECURITY QUESTIONS TO CONSIDER

5. Does your organization have an incident response plan in place?

Do you have an incident response plan?





**NIST**  
National Institute of  
Standards and Technology  
U.S. Department of Commerce

Special Publication 800-61  
Revision 2

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# **Computer Security Incident Handling Guide**

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**Recommendations of the National Institute  
of Standards and Technology**

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Paul Cichonski  
Tom Millar  
Tim Grance  
Karen Scarfone

<http://dx.doi.org/10.6028/NIST.SP.800-61r2>



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# 10 CYBERSECURITY QUESTIONS TO CONSIDER

6. Is your current budget for information security hardware, software, and services more than 10% of your overall IT budget?



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# 10 CYBERSECURITY QUESTIONS TO CONSIDER

7. Is your organization's network monitored 24/7/365 via a Security Operations Center?





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# 10 CYBERSECURITY QUESTIONS TO CONSIDER

8. Do you have a policy for patching?



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# 10 CYBERSECURITY QUESTIONS TO CONSIDER

9. Do you require multi-factor authentication?

# What can we do?

## How Hackable Is Your Password?

The length and strength of your password can make a huge difference in how long it takes for hackers to crack the code!

2 Minutes	10 Minutes	1 Hour	17 Years +
<p>Would you like fries with that?</p> 			
<p>If you have an all lowercase 5-character password, a hacker can feast on your personal data by the time you get your drive-thru order.</p>	<p>Do you have a 5-character password with all lowercase letters and numbers? A hacker can crack it before you and Spike make it around the block.</p>	<p>Hackers are incredibly flexible, even without exercise. In the hour you spend doing yoga, they can crack a 5-character password with upper and lowercase letters.</p>	<p>Longer, stronger passwords put hackers in a time-out. An 8-character password that uses upper and lowercase letters and symbols takes longer to crack than raising a child.</p>



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# 10 CYBERSECURITY QUESTIONS TO CONSIDER

10. Do you regularly evaluate your cybersecurity risk management program and the effectiveness of its controls?

# Third Party Service Providers



# SOC for Cybersecurity

## What it covers

- Cyber controls as described by an organization's enterprise-wide cyber risk management program.

## Report Components

- A description of the entity's cyber risk management program.
- Opinion on the effectiveness of controls within the program to achieve the entity's cybersecurity objectives. (Security, Availability, Confidentiality)

# SOC for Cybersecurity, Cont.

## Intended Usage

- General use – management and board members, analysts, investors, clients/prospects, business partners and industry regulators.

## Distribution

- Unrestricted

# Explore Cyber Liability Insurance

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

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

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Can help provide experienced attorneys, forensic experts and public relations professionals?

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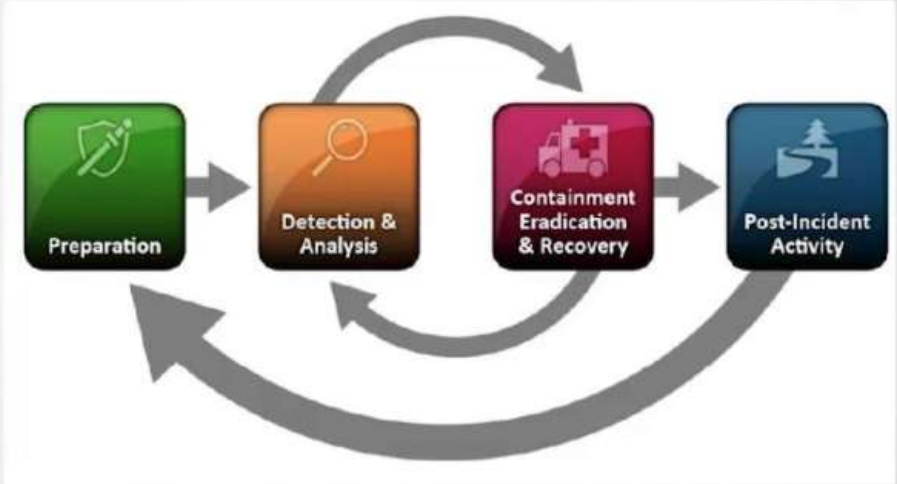


# What to do When a Breach Occurs!



# Incident Management - Follow Your Plan

- Detection
- Response
- Mitigation
- Reporting
- Recovery
- Remediation & Reporting
- Lessons learned



Graphic Courtesy of NIST

# Contact the Authorities!



The background is a complex digital interface with a teal color scheme. It features various data points, icons, and text elements. At the top, there's a stylized logo consisting of four vertical bars of varying heights. The interface includes elements like "12.123.82.34 CONNECTED", "NETWORK", "[PROCESSING]", "02 //HCL/A", "FAILED", "CONNECTED", "USER SAFE", and "12.123.82.34". There are also icons of people, a fingerprint, and a target symbol. The overall aesthetic is high-tech and data-driven.

# How to Manage the Weak Links!



Training! Training! Training!



# Are you Cyber Secure?



Good Luck!





# Questions / Contact Information

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