



proudly present:

Data Security: A Discussion

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Agenda

- **Top Offenders of The Notorious Nine**
- **Effects of Data Breach/Loss on Business**
- **Famous Attacks – Preventable?**
- **Who Can Help With Cloud Security?**
- **Creating Data Security**
- **Bottom Line**

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Top Offenders of The Notorious Nine: Cloud Computing Threats in 2013

- ① Data Breaches
- ② Data Loss
- ③ Account or Service Traffic Hijacking
- ⑥ Malicious Insider

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Effects of Data Breach/Loss on Business

- **Cloud Service Provider Perspective**
 - Damaged Reputation
 - May Not Have Been Their Fault
- **Client Perspective**
 - Loss of Customer Data/Loss of Proprietary Processes
 - Disruption of Operations

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Famous Attacks – Preventable?

- **TJX Companies Inc.**
 - Effected 826 TJ Maxx, 751 Marshalls, and 271 HomeGoods Locations
 - International Organization Behind Hack
 - Databases Were Vulnerable For Over A Year Prior To The Breach

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Famous Attacks – Preventable?

- **Target**
 - **Effected 1797 U.S. stores**
 - **Organization behind attack was multinational**
 - **Hack was detected and reported**

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Famous Attacks – Preventable?

- **Apple iCloud**
 - Affected a Lot of Accounts, Media Focused on Celebrities' Accounts
 - Implemented Changes
 - CEO Tim Cook says, “Apple could have done more to make people aware of the dangers of hackers targeting their accounts.”

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Who Can Help With Cloud Security?

- **Cloud Security Alliance: Non-Profit Promoting Best Practice Security Assurance; Est 2008**
 - Area of Concern – Cloud Computing Security
 - Published Guides
 - Cloud Control Matrix v3.0.1

<https://cloudsecurityalliance.org/>

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Creating Data Security

- **Due Diligence Applied to Protect Client Data**
 - Encryption of Data at Rest and In-transit
 - Security Expert on Staff
 - Establish and Implement Security Standards
 - Assess Systems for Vulnerabilities
 - Conduct Risk Assessment
 - System Continuous Monitoring

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Bottom Line

Strong Security Practices Employing Proven Practices and Standards Can Prevent Data Breaches and Protect Your Client's Data and Your Company

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- Edward Snowden – After months of NSA revelations, says his mission is accomplished
 - http://www.washingtonpost.com/world/national-security/edward-snowden-after-months-of-nsa-revelations-says-his-missions-accomplished/2013/12/23/49fc36de-6c1c-11e3-a523-fe73f0ff6b8d_story.html
- Cloud Security Alliance
 - <https://cloudsecurityalliance.org/>

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Paragon Security Services

- URL: <http://paragontech.net/security/security-services.html>
 - General description of our capabilities
 - Materials from this presentation and the 1 October 2014 work shop
- Telephone: 618.301.7970 ext. 302
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