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BUSINESS ADVISORS AND
CERTIFIED PUBLIC ACCOUNTANTS

Goals for Today's Presentation:

1. Understand IT Risk
2. Outline Top 5 Risks
3. What can you do today
4. Case Study

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Industry Overview:

- **60%** of companies that experience data loss will shut down within 6 months
- **14,033** new exploits published (6 months)
- **79,790** confirmed data breaches (6 months)
- **63%** of the incidents, attacker compromised data in <1 minute
- **92%** of Malware is still delivered by Email
- **191 Days** for an organization to detect a breach

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What is "IT Risk"?

"The process of identifying the **impact** and **likelihood** threats cause on the information technology resources, and deciding what countermeasures are used to **mitigate**, **transfer** or **accept** the identified risk."

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Impact

Likelihood		Low	Medium	High
	High	Medium	High Risk	High Risk
	Medium	Low Risk	Medium Risk	High Risk
	Low	Low Risk	Low Risk	Medium Risk

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Top 5 Risks:

- **Two-factor authentication**
- **Anti-spoofing and auto-forwarding email rules**
- **Effective patch management procedures**
- **Users with local administrator permissions**
- **Employees lack security training**

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Two-Factor Authentication:

"Know Something / Have Somethings"

- Remote Connections (VPN)
- Emails Accounts (CFO Fraud)
- Laptops and Cell Phones

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Simple Email Rules:

"Create Rules to Stop the Hackers"

- Anti-Spoofing
- Auto Forwarding

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Patch Management:

- **14,033** new exploits published
- **79,790** confirmed data breaches

"Vulnerability Assessments (NOT Pen Tests)"

- Internal
- External

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Local Admin:

"Minimum Level of Permission Necessary"

- Convenience over Security
- Employees and IT won't be friends

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Security Training:

"Employees are the weakest link!"

- Test and Train
- Train and Test
- Repeat Regularly
- It will improve

Social Engineering Case Study:

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Case Study Results:

- 27 Targets were tested to see if anyone would break company policy or jeopardize the entire network

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  - 17 different computers clicked on the URL

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Case Study Results:

- 27 Targets were tested to see if anyone would break company policy or jeopardize the entire network
- Emails were sent out and the malicious link (URL) was clicked 21 times
  - 17 different computers clicked on the URL
- The full-access Trojan was downloaded and installed on 3 computers

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Recognize Risk:

- **Understand Risk (Risk Assessments)**
  - Organizations need to perform these on a regular basis
- **System Tests**
  - Testing helps to identify system issues (configuration, updates, patches)
  - Ongoing Vulnerability Assessments
  - Custom web applications need to be thoroughly tested (Equifax)
- **Start NOW, before it is too late!**

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"War is based on deception."

Sun-tzu, (~400 BC), The Art of War, Strategic Assessments

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Thank You!

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