From Theft to Cyber Attacks: How to Keep Your Business Secure

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Agenda

➢ Basics of Security
➢ Biggest Security Threats for 2018
➢ How to Keep Your Business Secure
   ➢ Common Mistakes to Avoid
   ➢ Theft Prevention
   ➢ Defending Against Cyber Attacks
➢ Q&A
Basics of Security
If security were a movie ...
Strength in Layers

Physical Security
- Secure Perimeter, Access Control, Signage, Loss Prevention

Cyber Security
- **Network** – Firewall, VPN, Router, Switch, Modem, Wi-Fi
- **Endpoints** – PC, MAC, Mobile Phone, Malware, Anti-Virus, Patches
- **Application** – Front-end, Back-end, Middleware, Configuration, Cloud
- **Data** – Encryption, Disaster Recovery, Compliance, Access Control
Security Strategy

- Predict
- Prevent
- Respond
- Detect
Biggest Security Threats for 2018
Biggest Security Threats for 2018

Direct Impacts
- Data Breach
- Ransomware
- IOT attacks

Indirect Impacts
- Weaponization of Artificial Intelligence
- Cryptocurrency Mining
- Election Hacking

Source: MIT Technology Review, Jan 2018
Biggest Security Threats for 2018

Direct Impacts
• Data Breach

Indirect Impacts
• Weaponization of Artificial Intelligence
• Cryptocurrency Mining
• Election Hacking

Source: MIT Technology Review, Jan 2018
Data Breach

Data breach is a security incident in which sensitive, protected or confidential data is copied, transmitted, viewed, stolen or used by an unauthorized entity.
Biggest Security Threats for 2018

Direct Impacts
- Data Breach
- Ransomware

Indirect Impacts
- Artificial Intelligence
- Cryptocurrency Mining
- Election Hacking

Source: MIT Technology Review, Jan 2018
Ransomware

Ransomware is a type of malicious software that threatens to publish the victim's data or perpetually block access to it unless a ransom is paid.

E.g.: WannaCry, NotPetya, CryptoLocker, etc.
Biggest Security Threats for 2018

Direct Impacts
- Data Breach
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Indirect Impacts
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Source: MIT Technology Review, Jan 2018
Internet of Things (IOT) Attacks

IOT is the network of physical devices embedded with electronics, software, sensors and actuators which enables these objects to connect and exchange data.

E.g.: Autonomous cars, Smart thermostats, Smart Cities, etc.
Biggest Security Threats for 2018

Direct Impacts
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Source: MIT Technology Review, Jan 2018
Biggest Security Threats for 2018

Indirect Impacts

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How to Keep Your Business Secure
Common Mistakes to Avoid

**Physical Security**
- Inadequate access control
- No security system
- Limited checks and balances

**Cyber Security**
- Weak passwords
- Devices without anti-virus and malware protection
- Unpatched software and hardware
- Unsecured wireless networks and websites
- Lost devices
- Unwitting users or users with malicious intent
- Technology partners that are not focused on security
Theft Prevention

• Passive Defense
  • Signage, Signage, Signage
  • Keep your market well organized
  • Identify shrinkage sources and address them

• Active Defense
  • Invest in good access control
  • Invest in good security system
  • Demand higher protection from your vendors
Defending Against Cyber Attacks

What to look for in a Technology Partner?

- Find someone who is really good at both passive & active defense
- Partner with one who believes security is not an after-thought
- Rely on one who has dedicated staff backed by a holistic security strategy
- Trust one who takes compliance and audits seriously
- Lean on someone who partners with industry leaders, groups and customers
- Depend on someone who has a robust incident response and disaster recovery system
- **Most importantly**, count on someone that’s available when you need them the most
ANY QUESTIONS?