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

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Where People, Products & Possibilities Meet

# 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

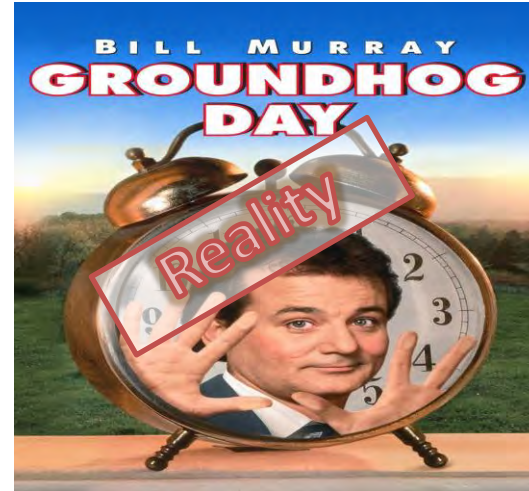
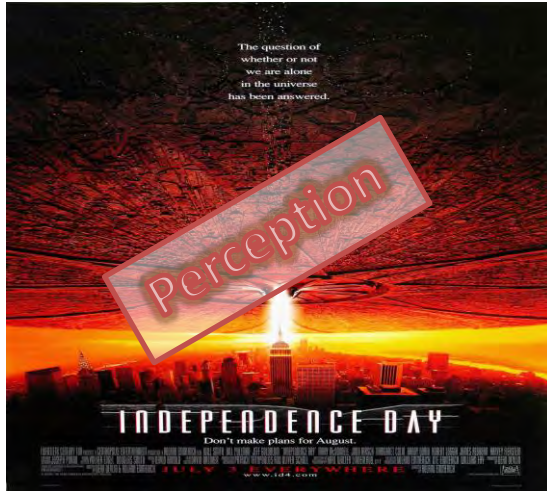


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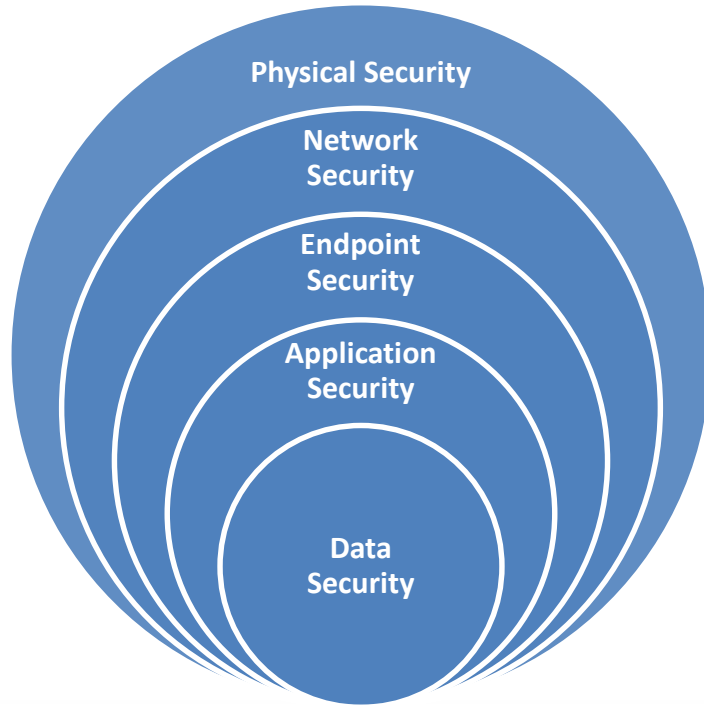
# Basics of Security

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# 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





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# Biggest Security Threats for 2018

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# 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

### 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



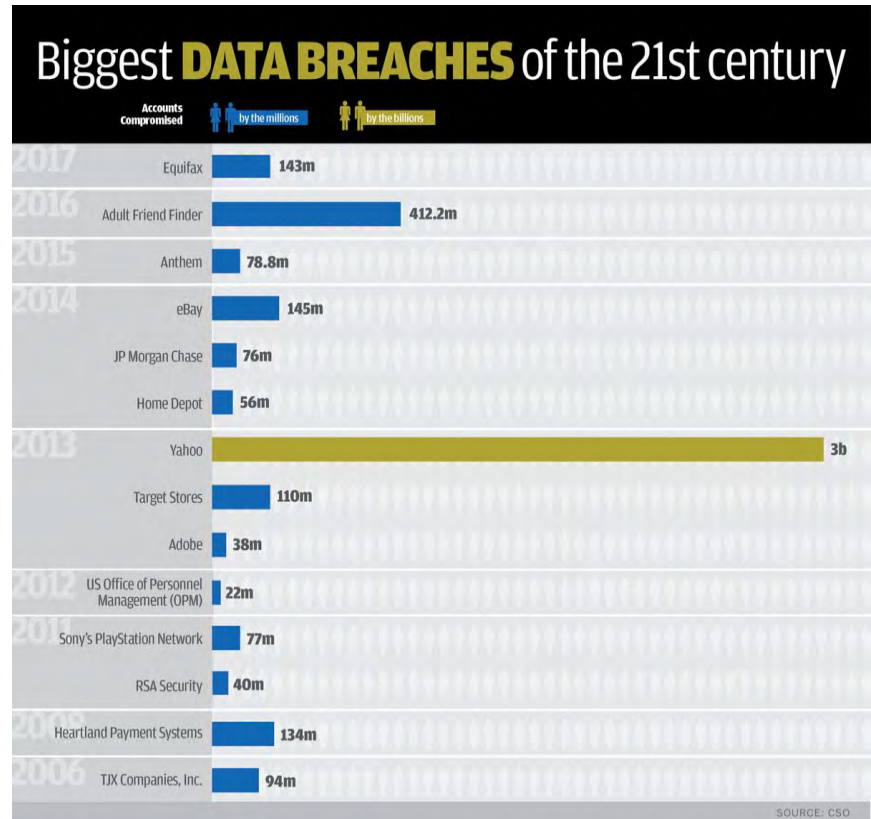
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# Biggest Security Threats for 2018

## Direct Impacts

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## Indirect Impacts

- Cryptocurrency Mining
- Election Hacking

## Artificial Intelligence

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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- IOT attacks

## Indirect Impacts

**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.

The NAMA Show 2018  
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Artificial Intelligence

• Election Hacking

Source: MIT Technology Review, Jan 2018



# Biggest Security Threats for 2018

## Direct Impacts

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# How to Keep Your Business Secure

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# 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?