PROTECTING YOUR OPERATIONS

PHYSICAL SECURITY & CYBER SECURITY

Agenda

Physical Security

- Why you should remember physical security
- Securing the premises and the interior
- The human element

Cyber Security

- Security is a mindset
- Knowledge and fundamentals
- Reasonable security
- Employee education

PHYSICAL SECURITY

PHYSICAL SECURITY: STATISTICS

- **9% of businesses suffered a burglary or theft in 2017**
- **Forcing a door or window is the most common entry technique**
- **75% of incidents occur when premises are unoccupied**
- **The more isolated the area, the higher frequency of incidents**
- **Burglaries often lead to other losses (arson)**

PHYSICAL SECURITY: THE PREMISES

- **Dusk-to-dawn lighting**
- **Fencing/Gates**
- **Posting signs**
- **Police presence**
- **Security (firm or employees)**
- **Low profile shrubs & trees**
- **Surveillance cameras**
- **Physical barriers**
- **Restricted access**

WARNING

THESE PREMISES ARE UNDER 24 HOUR VIDEO SURVEILLANCE

PHYSICAL SECURITY: INTERIOR

- **Monitored security cameras**
- **Local/Central station alarms**
  - ➢ **Door/window contact**
  - ➢ **Motion detection**
  - ➢ **Sound/glass breakage**
- **Fortify skylights**
- **Lights during off hours**
- **Conceal/Secure high value targets**

PHYSICAL SECURITY: HUMAN ELEMENT

- **Background checks**
- **Minimize cash**
- **Key control program**
  - ➢ **Building**
  - ➢ **Vehicles**
  - ➢ **Equipment**
- **Change access codes**
- **Test/calibrate systems**
- **Pre/Post operating hours check**

POLICE PERSPECTIVE

CYBER SECURITY

...then apply that to technology

Security is a Mindset

The basics of safety still apply…and work

KNOW WHAT YOU'RE PROTECTING

WHAT

- ▲ **Physical Assets**
- ▲ **Digital Assets**
- ▲ **Financial Assets**

WHY

- ▲ **Your Reputation**
- ▲ **Continuity of Your Operations**
- ▲ **Protecting your Assets**

HOW

- ▲ **Know Your Threats**
- ▲ **Know Your Technology & Risks**
- ▲ **Adopt Some Basic Best Practices**
- ▲ **Educate Yourself and Your Employees**
- ▲ **Insure Yourself with Cyber Insurance**

Know The Threats

- **Links/attachments in emails (90%)**
- **IoT**
- **Internet and web – they're both vulnerable**
- **Ne'er-do-wells to be concerned about**
  - **Hackers/Crackers**
  - **Competitors**
  - **Hacktivists**
  - **Thrill Seekers**
- **Hear of the Dark Web or Deep Web?**
  - **Anything that starts with www is suspect**

KNOW YOUR TECHNOLOGY

Outer
Boundary-Virtual
e.g., Firewall

Inner
Passwords-Data
e.g., Files

Middle
Endpoints- Physical
e.g., Antivirus

Internet   Firewall

Home or Business Network

Know Your Technology

Outer
Boundary-Virtual
e.g., Firewall
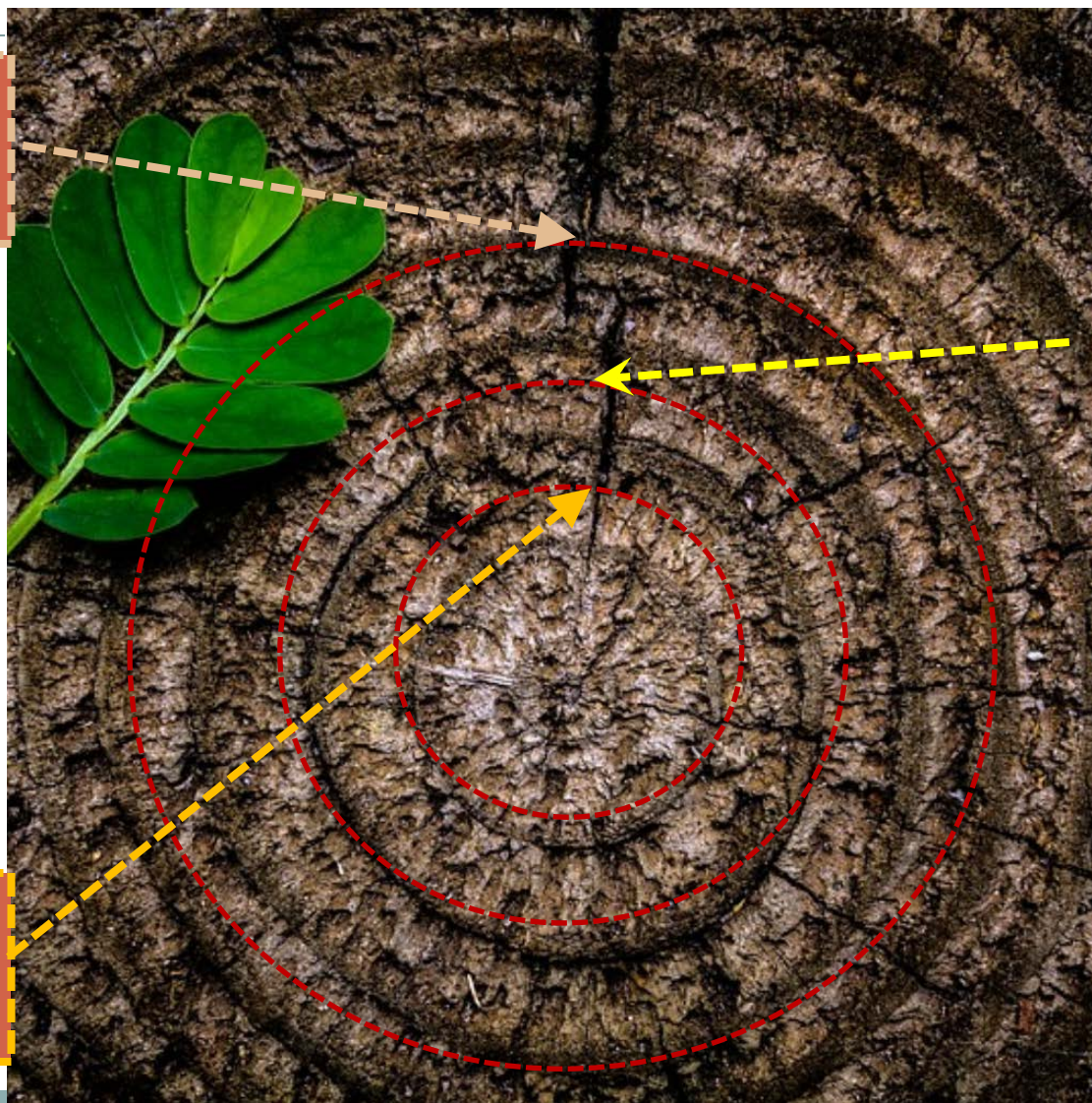
Middle
Endpoints- Physical
e.g., Antivirus

Inner
Passwords-Data
e.g., Files

The Importance of fundamentals

▲ **"The minute you get away from fundamentals – whether it's proper technique, work ethic or mental preparation – the bottom can fall out of your game, your schoolwork, your job, whatever you're doing."**
Michael Jordan

▲ **"Gentlemen, this is a football."**
Vince Lombardi

▲ **"Everything in life goes back to the basics."**
Kron Gracie, BJJ

▲ **"It all comes back to the basics. Serve customers the best-tasting food at a good value in a clean, comfortable restaurant, and they'll keep coming back."**
Dave Thomas, Wendy's

▲ **"…if you do this type of work long enough you realize that the mastery of the basics is the true objective."**
James Hamilton, VP of Gavin De Becker and Associates

THE PUZZLE OF INFORMATION SECURITY
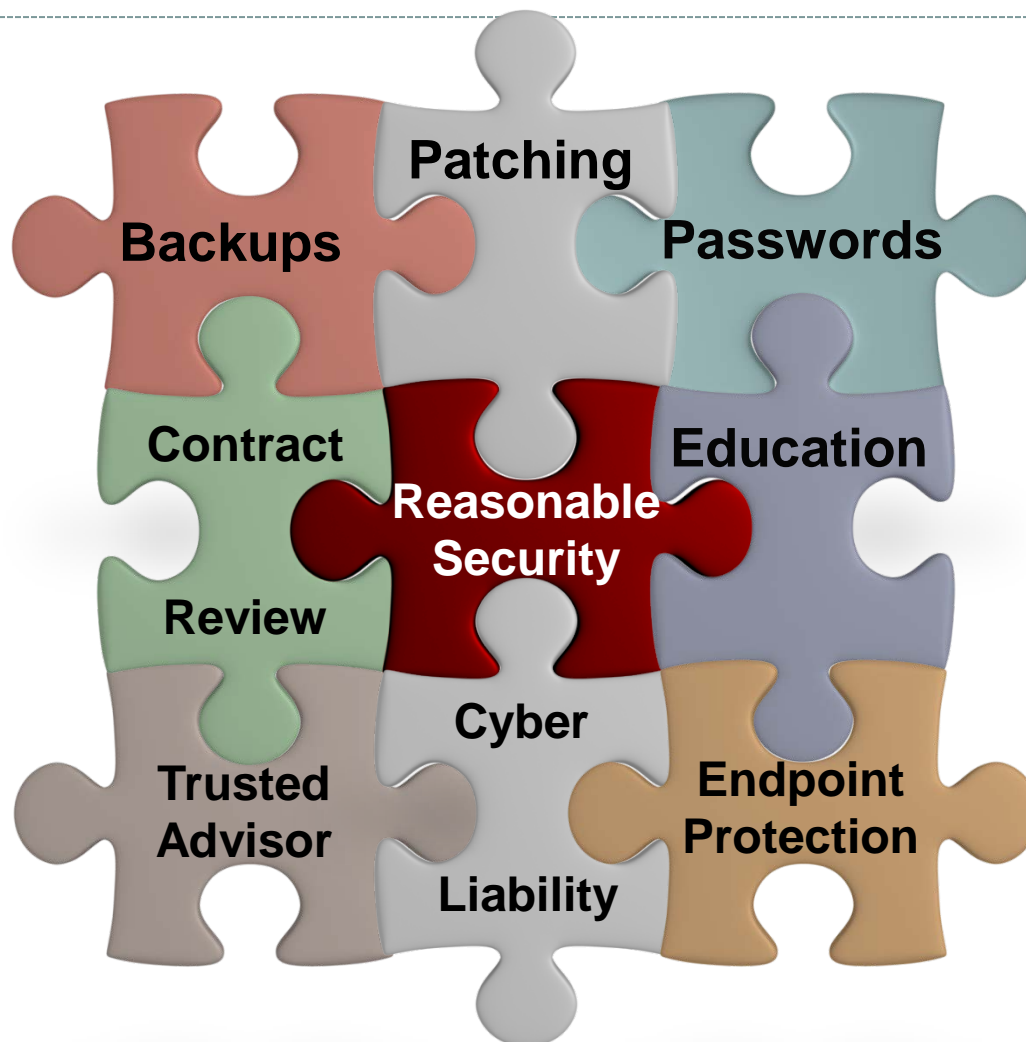
Best IT Security Practices

Passwords

- At least 8 characters, with a number, symbol, uppercase, lowercase
- Change at least every 90 days
- Don't share your password with anyone

Backups

- Backup to the cloud every day
- Test by restoring at least every 90 days
- Backup any data that you believe needs backed up

Protecting Your Servers

- Patch critical updates within 2 weeks; others at 3-4 weeks; don't auto-update
- Servers get antivirus protection
- Only a certain few get to work on servers

Protecting Your Workstations

- Set OS patches to auto-update
- It's best if employees can't install programs on their own
- Install endpoint protection and set to auto-update
- Beware of phishing

Education

- Search online for "10 things you need to do to be secure"
- Tell everyone consistently

Spot a phishing email

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Further Education

- https://www.ftc.gov/about-ftc/bureaus-offices/bureau-consumer-protection/small-businesses
- https://transition.fcc.gov/cyber/cyberplanner.pdf
- How the journalist was hacked: https://www.wired.com/2012/08/apple-amazon-mat-honan-hacking/
- https://www.compassmsp.com/wp-content/uploads/2017/08/SMB-Guide-to-Cyber-Security.pdf
- https://www.us-cert.gov/ccubedvp/smb
- https://www.ds-l.com/blog/2016/10/cyber-security-small-business.html
- Big Security For Small Business
- https://www.cyberessentials.ncsc.gov.uk/advice/
- Sign up at: https://haveibeenpwned.com/ to be notified if your account has been compromised in a data breach
- Lists and reviews of software at https://www.av-test.org/en/
- Free course on *Creating a Security-centric Culture*:   https://www.pluralsight.com/courses/security-culture-creating
- Search online for **cybersecurity for small business** or **security essentials for business**
- Free training for IT: *https://www.cybrary.it*
- Pinterest has lots of great ideas! Search for *cybersecurity business* or *information assurance*
- Great big list of cybersecurity resources: https://www.csoonline.com/article/3209670/it-careers/great-big-list-of-cybersecurity-resources.html
- State and Local Cybersecurity Policies: https://www.cisecurity.org/cybersecurity-policies/
- Sophos Threatsaurus: https://www.sophos.com/en-us/security-news-trends/security-trends/threatsaurus.aspx
- Expansive glossaries: https://www.sans.org/security-resources/glossary-of-terms/ https://www.isaca.org/Knowledge-Center/Documents/Glossary/Cybersecurity_Fundamentals_glossary.pdf
- Watch cyberattacks in real time: http://map.norsecorp.com/#/