CYBER SECURITY OVERVIEW

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APRIL 05, 2019

THE FUNDAMENTALS

- Lock your devices and protect your devices
- Anti-Virus Solutions and Malware Solutions
- Patch your devices (All of Them)
- Patch your home routers or replace
- Avoid Public Wi-Fi
- Choose an Email carrier wisely
- Use a VPN for sensitive transactions
- Backup your devices separately

CURRENT TRENDS

- Business Email Compromise
- Spear Phishing/Vishing
- Whaling
- Social Engineering

CURRENT TRENDS (CONT.)

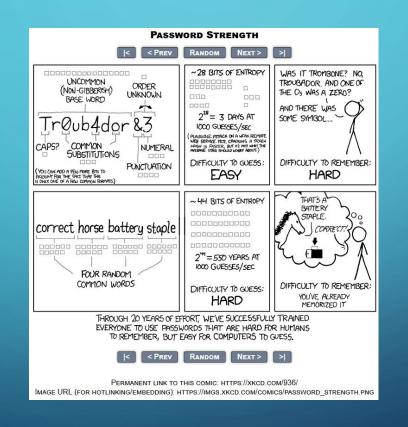
- Ransomware/Scareware
- Extortion/Sextortion
- Fileless Attacks
- Cloud Computing
- Knowledge Based Authentication

VISHING - VOICE SOLICITATION



WATCH THIS HACKER BREAK INTO MY CELL PHONE ACCOUNT IN 2 MINUTES

PASSWORDS



PASSWORDS (CONT.)

- Password Length is Key
- Use Password Phrases
- No personal information
- Change passwords regularly or after a breach
- Use a password manager

PASSWORDS (CONT.)

- 1.123456 (Unchanged)
- **2. password** (Unchanged)
- **3.123456789** (Up 3)
- 4. 12345678 (Down 1)
- **5. 12345** (Unchanged)
- 6. 111111 (New)
- **7. 1234567** (Up 1)
- 8. sunshine (New)
- 9. qwerty (Down 5)
- 10. iloveyou (Unchanged)

- Spring2019
- MeToo2019
- ¡8Te9wm!
- Favorite Team
- Current Sport Season
- Spouse, Children, Pets
- Birthdate, Address, Wedding

INSIDER THREATS

- Financial
- Travel
- Foreign Contacts
- Drug or Alcohol abuse

- Recruited Volunteer Clueless
- Unauthorized downloads
- Taking assets home
- Elevated privileges
- Hours of work / Vacation
- Enticement for access

OPEN SOURCE INTELLIGENCE

- Search Engines
- Social Media Sites
- Blogs, Forums, Discussion Boards
- People Investigations
- Image Search
- Place of Employment

- Legal/News Reports
- Web Analysis
- Video Sites
- Geospatial Activation
- War Driving

IT CONTROLS

- Access Management
- Integrity of Data
- Secure Configurations
- Application Defenses
- Elevated Privileges

- Failure to Plan for Disruption
- Failure to review audit logs
- Wireless Access Controls

REPUTATIONAL RISKS

- Small Business
- Educational/Healthcare
- Search Results/Data Science
- General Data Protection Regulation
 - GDPR, EU
- Retail Fraud
- Supply Chain

- US Weapon Systems
- Regulation Complexity
- Unmet Board Expectations
- Outdated Business Processes
- Search Engine Optimization (SEO)Poison
 - Blacklisting
 - Redirects
 - Untrusted Sites

THE "SO WHAT"

- Employee Education
- Team Collaboration
- Backup/Restoration
- Cost of Security
- Client Data
- Encryption

- Impact to Business
- Human Factor
- Policies and Procedures
- Risk Mitigation Review
- Insurance

THANK YOU

