Common IT Mistakes That Let Hackers In

Presented by Ken Colburn
“The Data Doctor”

Founder/CEO
Data Doctors Franchise Systems
The Changing Nature of Cybercrime
Speed, Convenience and Anonymity

Cybercrime Estimated to be a $400 Billion Underground Industry
Everything is Hackable...

...but are you accidentally making it easier?
Random Acts of Hacking vs Targeted Hacking
Passwords: The Key To Your Kingdom

- Every Hacker Knows Every Default Password
- Who Has Access to Admin Passwords?
- Longer Easy To Remember Passwords are More Secure Than Short Complex Passwords

Haystack Tool: https://www.grc.com/haystack
2-Factor Authentication

- Something You Know (Your Username/Password)
- Something You Own (Smartphone)
- Also Creates An Early Warning System
- Especially Important For E-Mail Accounts
Two Factor Auth (2FA)
List of websites and whether or not they support 2FA.
Add your own favorite site by submitting a pull request on the GitHub repo.

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<th>Backup and Sync</th>
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Software Updates & Patch Management

- Windows XP Still Used By 24% of PCs
- Browsers Are The Most Common Attack Vector
- Don’t Forget Your Apple Products!
- How Is Your Patch Management Executed?
- Are You Forgetting Java, Flash, Adobe Reader, etc.?
Poorly Secured Remote Access

- Essential to Productivity - Easy to Setup
- Security Vs Usability
- Default Security Settings Create Backdoors
- Limit Failed Logins - Turn On Intruder Detection

More Detailed Advice:
http://DataDoctors.com/help/columns/22009
The Mobile Revolution

Pope John Paul II’s Viewing 2005
The Mobile Revolution

Pope Francis' Announcement 2013
Mobile Workforce Security Threats
Mobile Workforce Security Threats

- Think Like A Hacker - Soft Vs Hardened Targets
- Mobile & Remote Users Are Easier Targets
- What Sensitive Data Is Stored on Mobile Devices?
- Should Remote Access Users Have Limited Rights?
- Whitelisting, VPNs, Encryption, Virtualization, etc.
- Executive Level Users, Biggest Abusers!
BYOD a.k.a. BYOT

Bring your own device!
BYOD - Pros & Cons

- Improves Productivity, Lower Hardware Costs
- Managing Security Much More Complex
- Controlling Appropriate Use Is Difficult
- Weekend Behavior Becomes The Attack Vector
- Create Clear BYOD Policies

Ransomware

One of the Greatest Threats To Your Entire Business
Public Enemy #1: Crypto Ransomware

- Over 250K Infected, $1M+ Per Day in Ransoms
- Encrypts Anything With A Drive Letter
- Uses Clever Social Engineering To Trick Victims
- One Employee is All it Takes
- Backups With A Drive Letter Also Get Locked
- Limited Time to Pay - Ransom Goes Up
- No Secure Backup, Paying is the Only Solution
Questions?