

The Top 10 IT Security DO'S and DON'TS For Churches



1. DO take security seriously

Why should I care about IT security?

- ▶ Financial consequences
 - ▶ Compromise of personal or confidential information
 - ▶ Loss of valuable organizational information or intellectual property
 - ▶ Loss of staff and congregation trust, loss of reputation, embarrassment, bad publicity, media coverage
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- ▶ 90/10 Rule
 - ▶ 10% of security safeguards rely on technology
 - ▶ 90% of security safeguards rely on the user

Why should I care about IT security?

- ▶ The average cost per record of a data breach in 2016 was \$158
- ▶ The average amount paid by ransomware victims more than doubled in 2016
- ▶ Microsoft cyber attacks: 10M login attempts daily
- ▶ Attacks are becoming more frequent, more sophisticated, and more expensive

What can hackers do with my computer?

- ▶ Record keystrokes and steal passwords
- ▶ Send spam and phishing emails
- ▶ Harvest and sell email addresses and passwords
- ▶ Access sensitive information
- ▶ Infect other systems
- ▶ Illegally distribute music, movies, software, and inappropriate content
- ▶ Slow down your whole network by generating large volumes of traffic

**2. DON'T get
tricked into sharing
confidential info**

Threat: Social Engineering

- ▶ Social Engineering: when scammers use social interaction to steal data or gain unauthorized access
- ▶ Strategies:
 - ▶ Find and use information
 - ▶ Exploit familiarity
 - ▶ Exploit sympathy
 - ▶ Exploit desire to be helpful
- ▶ Results of our secret email test

This is how hackers hack you using simple social engineering



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



0:00 / 2:29



WATCH HERE: <https://youtu.be/lc7scxvKQOo>

Threat: Social Engineering

- ▶ Phishing- Email that looks like it came from someone trusted, who is requesting information
 - ▶ Three quarters of social engineering attacks are phishing attacks
 - ▶ Spear phishing- targeted attack personalized to you
 - ▶ CEO Fraud- Email from the CEO/Lead Pastor requesting money, etc
- ▶ Vishing- A phishing phone call
 - ▶ Call pretending to be your IT vendor requesting login information or access
 - ▶ Pretending to be from another campus or from a familiar vendor
- ▶ Tailgating- Gaining access into a secure area by following behind someone
 - ▶ Don't neglect physical security

Best Practices: Social Engineering

- ▶ Train your staff!
- ▶ If a hacker called an employee at your church pretending to be the IT department, how would they respond?
- ▶ Stopping these attacks depends on your staff
- ▶ No amount of technical IT security can take the place of common sense
- ▶ Training should be ongoing, like fire drills

**3. DO use complex,
unique passwords**

Best Practices: Passwords

- ▶ Passwords won't protect you if you don't protect them
- ▶ Use unique passwords for each website
- ▶ Use a password manager

Recommended: 1password, LastPass, DashLane

- ▶ Characteristics of strong passwords:
 - ▶ Contain a mixture of upper and lower case letters, numbers, and symbols
 - ▶ At least 8 characters in length
 - ▶ Easy to remember, difficult to guess

Most Common Passwords of 2016

- ▶ 123456
- ▶ password
- ▶ 12345678
- ▶ qwerty
- ▶ zxcvbnm
- ▶ 777777
- ▶ football
- ▶ Sunshine
- ▶ 1q2w3e
- ▶ 654321
- ▶ baseball
- ▶ welcome
- ▶ 1234567890
- ▶ abc123
- ▶ 111111
- ▶ 1qaz2wsx
- ▶ dragon
- ▶ Password1
- ▶ master
- ▶ monkey
- ▶ letmein
- ▶ login
- ▶ princess
- ▶ qwertyuiop
- ▶ loveme
- ▶ passw0rd
- ▶ starwars

**4. DON'T leave
sensitive information
around the office**

Put Things Away

- ▶ Don't leave printouts containing private information on your desk
- ▶ Lock them in a drawer or shred them
- ▶ It's very easy for a visitor to glance down at your desk and see sensitive documents
- ▶ Types of documents to protect include
 - ▶ Resumes
 - ▶ Financial documents
 - ▶ Personal identifying information (DOB, SSN, address, etc.)
 - ▶ Counseling/pastoral notes
 - ▶ Benevolence notes
 - ▶ Employee records
 - ▶ Passwords!

5. DO lock your devices

Don't Leave Your Front Door Open

- ▶ Always lock your devices when you're not using them
 - ▶ Set them to auto-lock when not being used
- ▶ Devices are easily stolen from offices, cars, and homes
- ▶ Our phones offer direct access to our personal information, privacy, and financial accounts
- ▶ Not to mention access to work files and emails
- ▶ For most of us, our first reaction when we lose our wallet is I have to cancel my credits cards, get a new license, etc.

**6. DON'T send
sensitive info via
email, text, or IM**

Text, Email, and IM

- ▶ Never assume these types of communication are private
- ▶ Only use trusted, secure web pages when entering personal or sensitive information
- ▶ Don't log in to web sites or online applications unless the login page is secure
 - ▶ Look for https (not http) in the URL to indicate that there is a secure connection
- ▶ Be especially careful about what you do over wireless
- ▶ Information and passwords sent via standard, unencrypted wireless are especially easy for hackers to intercept
 - ▶ Most public access wireless is unencrypted

**7. DO be suspicious
of emails, links, &
attachments**

Think First

- ▶ Don't let curiosity get the best of you!
- ▶ If you aren't expecting it, don't click on it
- ▶ Use healthy skepticism
 - ▶ Is there really a Nigerian prince who will make me rich?
 - ▶ Would our pastor really ask me to wire money?
- ▶ Always delete suspicious emails and links
- ▶ Opening these emails and links can compromise your computer and create unwanted problems without your knowledge

Threat: Ransomware

- ▶ Ransomware allows an attacker to kidnap your data by encrypting it
- ▶ Your data is held hostage unless you pay for the encryption key
- ▶ Attacks come through e-mail attachments, infected websites, etc.
- ▶ Paying the ransom encourages more attacks

Best Practices: Ransomware

- ▶ Be cautious when opening attachments or clicking links
- ▶ Keep anti-virus updated
- ▶ Report suspicious activity ASAP
- ▶ If you suspect ransomware, unplug your computer ASAP
- ▶ **BACK UP YOUR DATA**

**8. DON'T install
unauthorized
programs**

Installing Applications

- ▶ Free software - if something looks too good to be true, it probably is
- ▶ Malicious applications often pose as legitimate programs, like games, tools, or other software
 - ▶ They can harbor behind-the-scenes viruses or open a "back door" giving others access to your devices without your knowledge
 - ▶ They aim to fool you into infecting your own computer or network
- ▶ If you think an application will be useful, contact IT to look into it before installing

**9. DO stay alert and
report suspicious
activity**

See It, Say It

- ▶ Always report any suspicious activity
- ▶ Part of our job is to make sure your data isn't lost or stolen
- ▶ If something goes wrong, the faster we know about it, the faster we can take action

**10. DON'T forget to
secure your personal
devices**

Stay Secure at Home

- ▶ Your personal information is sought after and should be secured
- ▶ Most of us use personal devices to access work files, emails, etc.
- ▶ Remember PAUL
 - ▶ Password
 - ▶ Anti-virus
 - ▶ Update
 - ▶ Lock

Sources:

- ▶ <http://www.social-engineer.org/>
 - ▶ <http://its.ucsc.edu/security/>
 - ▶ <https://www.sophos.com/en-us/security-news-trends/>
 - ▶ <https://www.knowbe4.com/>
 - ▶ <http://ministrytech.com/category/internet-security/>
 - ▶ <http://www.networkworld.com/article/3160101/security/top-25-worst-of-the-worst-most-common-passwords-used-in-2016.html>
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- ▶ Ready to test your savvy? Take this quiz: <https://www.sonicwall.com/phishing>