Digital Security:

Train the Trainer

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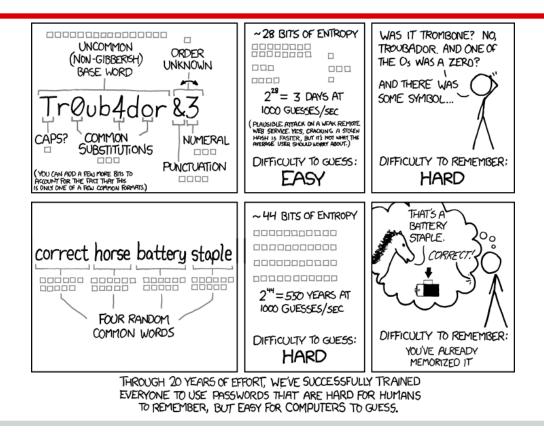
Today's Agenda

- Basics of Risk Assessment
 - Activity: Information Mapping
- Strong Passwords
- Browsing Safety
 - Activity: Secure Postcards
- Mobile Security
- Travel Security

Basics of Risk Assessment: Information Mapping

- Where do you store Information?
- What do you store there?
- How sensitive is it?

Password Security

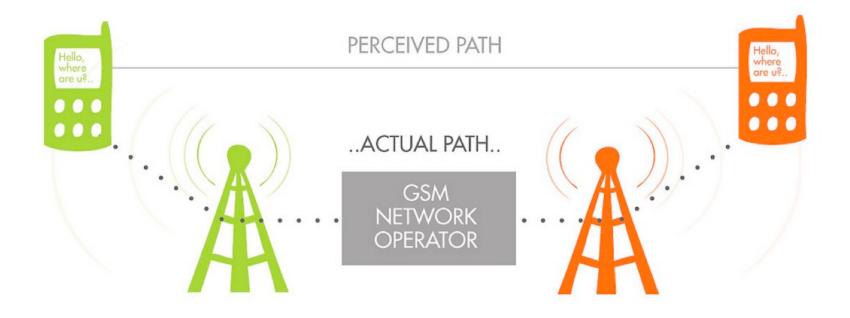


Basic Browsing Safety:

Send a Letter, Not a Postcard

Basic Phone Security:

What is a network?

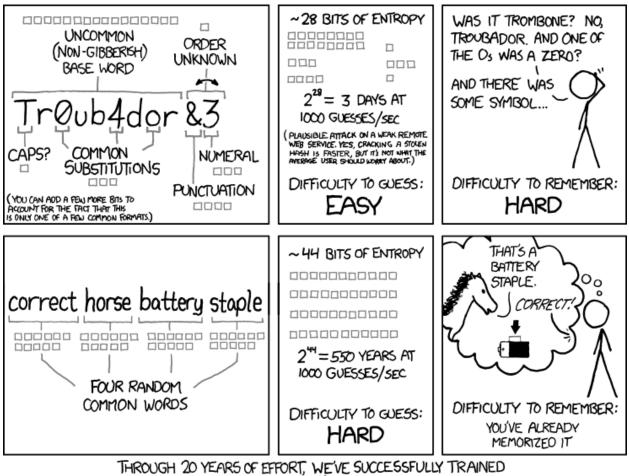


Travel Security: Checklists

- Before you Leave
- While You Travel
- When You Return

Passwords

- First step in accessing any web-based content, if a password is discovered by a malicious actor then your data and communications can become compromised
- General recommendations:
 - Length: at least 8 characters
 - Strength: diversity of characters (letters/symbols, and whether they are upper case or lower case
 - Rotation: they should be changed on a semi-regular basis
 - Uniqueness: do not repeat the use of passwords
 - More frequent rotation prioritization (important ones change more often)
 - also situational change after risky experience
 - From trusted computer!
- Extremely difficult to follow these practices on your own
 - Multi-word passphrases solution



THROUGH 20 YEARS OF EFFORT, WE'VE SUCCESSFULLY TRAINED EVERYONE TO USE PASSWORDS THAT ARE HARD FOR HUMANS TO REMEMBER, BUT EASY FOR COMPUTERS TO GUESS.

On the Road: Digital Security when Traveling

- Types of behavior when traveling:
 - Have to carry your devices with you, may be investigated at border crossings
 - May access untrusted or public wifi connections

• Why this matters:

- Device can be stolen
- Open network can be a vector for malware or stealing login credentials
- What should I do when I'm in transit?
 - **Carry as little data as possible:** Travel with a "clean" device that contains only the information you need for a particular trip, and then securely delete those files before returning to the United States.
 - Keep a backup of your data elsewhere: Someone could seize your laptop, phone, or other devices for no reason at all. You should be prepared for the possibility that you could be deprived of access your data for some time, and store copies somewhere else that you can easily access if your devices are taken from you.
 - Securely store the data on your device. Many devices such as laptops and phones give you the option to set a password, numeric PIN, or other authentication method to control access to your data. Take advantage of this security feature to give your data a little more protection.
 - Use the Swype function on your Android to lock your device? You should change to a password instead, because it is very easy to see the pattern when it's held near a light.
 - Remember to shut down your device completely before traveling. This prevents someone from more easily being able to gain unauthorized access to your computer.
 - Require screensaver logins too! Set the screensaver on your system to start automatically after a short time (such as 2 or 5 minutes) and to require that the user supply their password again before the screensaver will unlock.
- What should I do when I want to use my device?
 - **Turn off Wi-Fi.** When you're not using your Wi-Fi connection on any of your devices, it's good practice to turn it off. That way it won't automatically connect to any Wi-Fi that is in the area. And for your mobile devices, it will help save your battery life since your mobile will not be constantly searching for an available Wi-Fi connection.
 - **Log out of email, social media sites, etc.** When you connect to an untrusted network, and you are already signed in, it is much easier for a hacker to gain access to your account than when you are signed out.
 - **Connect to as secure of a wifi network as possible** If the wifi network you are accessing has a password, it is much better to connect to this than an open network. You can tell when a network is not secured because you will see a message when you connect saying that you are "connecting to an unsecured

network", or it will not have a lock next to it in the wireless connections menu. And if you are using an unsecured network, do not conduct any sensitive activities online (online banking, etc.)

- Only use HTTPS HTTPS, or hypertext transfer protocol (HTTP) with secure sockets layer (SSL, hence the S after HTTP), is a more secure option set up by a website owner who knows security is essential. Look for "HTTPS://" in the address bar to signify you are on a secure page. Even on an open, unsecured wireless connection, HTTPS is more secure than HTTP.
- When you return home:
 - **Run your antivirus program** before you reconnect to your home network
 - **Change passwords**, especially to any accounts you may have accessed when traveling, such as email.

How do mobile networks work?

- The SIM card has a unique number the **IMSI** that is stored as a 64-bit field in the SIM inside the phone and is sent by the phone to the network.
- Your handset has a unique number, the IMEI
- Cell towers relay information from your phone to the Mobile Network Operator (MNO)
- Cell towers "triangulate" your location and relay data to and from your phone

The Network: Transmitting Information



Monday, May 21, 2012

Mobile Network Operators:

- Sells you a SIM card
- Owns or leases cell towers
- Relays data to/from your phone
- Stores your data (call logs, SMSs, triangulation)
- Charges you

What should I do?

- Device protection:
 - Password protect your mobile device
 - Put a pin on your SIM card
 - Remove battery from phone when not in use
- Limit data stored on phone:
 - Clear call logs
 - Limit number of stored contacts
 - Delete SMS and MMS threads, and reduce storage maximum (default is usually 200 SMS and 10 MMS)
 - Don't save outbound SMS

• Email or transfer sensitive media to a PC and upload securely from there

• Limit accessibility:

- Turn off Bluetooth and WiFi unless actively using them
- Avoid open and unencrypted WiFi networks
- Always use HTTPS when on a WiFi network, and look for a lock icon in your browser
- Use strong passwords for online accounts; and sign out of applications when not being used
- Evaluate apps carefully: check to see what permissions they have. Install only apps you really need
- •

Instructions: List each type of information or data you have in each of these places. Examples of such data include: Email, Contact details, Reports/research, Accounts/spreadsheets, Videos, Images, Private messages on Facebook, etc. For data stored in more than one place, you can specify whether it is a "Master" copy, or a "Duplicate". For example, your "Master" copy of email could be in the cloud (if you use web-based email), and "Duplicates" can be listed under Computer Hard Drive (if you use a mail client like Outlook), Smartphone, etc.

To determine the sensitivity of each type of data, please consult the following page:

	Computer Hard Drive	USB / External Hard Drive	Cloud Storage	Smartphone	Print	Other
High Sensitivity						
Medium Sensitivity						
Low Sensitivity						

Instructions: For each piece of data, ask the following questions listed below for each column. If ALL of the above answers are A/B (GREEN), rating is LOW; if ANY of the above answers are C (YELLOW) and NONE are D (RED), rating is MODERATE; if ANY of the above answers are D (RED), rating is HIGH

SCALE: A/B = GREEN = LOW C = YELLOW = MODERATE D = RED = HIGH

CONFIDENTIALITY QUESTIONS	INTEGRITY QUESTIONS	AVAILABILITY QUESTIONS
1. Does the information include or contain PPSI		1. Is availability of the information essential for
(Personal, Private, or Sensitive Information)?	1. Does the information include personnel / HR records?	any emergency response or disaster recovery?
A) No - continue with Confidentiality questions	A) No - continue with Integrity questions	A) No - continue with Availability questions D) Yes - Availability is High (rate below)
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continue with Integrity questions	with Availability questions	O This information people to be provided on
2. What impact does unauthorized access or	2. Is the information (e.g., security logs) relied	2. This information needs to be provided or
disclosure of information have on health and	upon to make critical security decisions?	available:
safety?	A) No - continue with Integrity questions	A) As time permits - continue with Availability
A) None - continue with Confidentiality	D) Yes - Integrity is High (rate below), continue	questions
questions	with Availability questions	C) Within 1 to 7 days - continue with Availability
B) Minimal impact - continue with		questions
Confidentiality questions		D) 24 hrs. per day/7 days a week - Availability
C) Limited impact - continue with Confidentiality		is High (rate below)
questions		
D) Severe Impact - Confidentiality is High (rate		
below), continue with Integrity questions		
3. What is the financial impact of unauthorized		3. What is the impact to the organization's staff
access or disclosure of information?	or destruction of information have on health and	
A) None - continue with Confidentiality	safety of the organization's staff or partners?	not available when needed?
questions	A) None - continue with Integrity questions	A) None - continue with Availability questions
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or disclosure of information have on the	modification or destruction of information?	were not available when needed?
organization's mission?	A) None - continue with Integrity questions	A) None - continue with Availability questions
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8. Is the information publicly available?	8. Is the information (e.g., financial	
A) No - see Instructions below, then continue	transactions, performance appraisals)	
with Integrity questions	relied upon to make business decisions? If	
B) Yes - see Instructions below, then continue	yes, determine the impact of unauthorized	
with Integrity questions	modification or destruction of information.	
	A) No - see Instructions below then continue	
	with Availability questions	
	B) Yes - Minimal impact - see Instructions	
	below then continue with Availability ques.	
	C) Yes - Limited impact - see Instructions below	
	then continue with Availability ques.	
	D) Yes - Severe impact - Integrity is High (rate	
	below), continue with Availability ques.	

CLASSIFICATION RATING FOR		CLASSIFICATION RATING FOR
CONFIDENTIALITY:	CLASSIFICATION RATING FOR INTEGRITY:	AVAILABILITY: