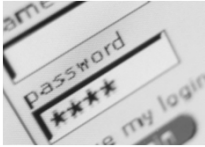# Passwords

Howard Verne
2/5/2015

Is My Private Information Safe?

•NO!!

- Millions of people's Information has been stolen to date
  - Target, Home Depot Even Albertsons have been some of the largest/well known break-ins
  - Anthem said hackers were able to breach a database that contained as many as 80 million records
    - The information accessed included names, Social Security numbers, birthdays, addresses, email and employment information, including income data
  - This information is for sale on hacker sites (typically $5-6 per person)

Why Care

- •If you use the same passwords on multiple sites,
  - •If it is stolen from one – the cybercriminal can access all
    - • AND HE WILL!
- Common Passwords can be broken in a matter of minutes
  - E.g. password, 123456, 111111, qwerty, iluvyou, letmein, monkey
- Insecure Passwords can be broken in less than an hour
- Insecure Passwords are:
  - Dictionary Words
  - Less than 8 Characters
  - All Lower Case letters

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What is a Good Password?

- 8 Characters or Longer.
- At Least one Capital Letter
- At Least one Number
- At Least one Special; Character (-$%* etc
- Best ones are just random characters
  - 6Thr0-3P, 9dq8k6!0

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But I Can't Remember it!

- Use a Password Manager to generate, enter and remember your passwords – BEST Solution
- Consider using 2 words with a special character or number separating them
  - E.g. luv!Tennis, golf-Nut, luv2Sew
    - Do not capitalize the first letter in the password
- Add something that makes it site unique
  - E.g. luv!aol9Tennis, golf-Nut1Aol, aol-luv2Sew

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Links to Other Seminars

- Computer Security
  - http://www.scs-cc.com/smnr/Information_Security_Now.pdf
- Password Managers
  - http://www.scs-cc.com/smnr/Password_Managers.pdf
- Spam Phishing (at end of Gmail Notes)
  - http://www.scs-cc.com/smnr/GMAIL.pdf

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Why Use a Password Manager

- **Saves** your passwords and **Logs You In automatically**.
- Fills long Web forms (including Credit Card Info) with one click.
- **Encrypts** your passwords for **complete security**.
- **Generates** random/secure passwords to defeat hackers
- **Backs up** passwords, copies them between Devices.
- **Mobile Device-friendly**: sync your passwords to IOS, Android and others
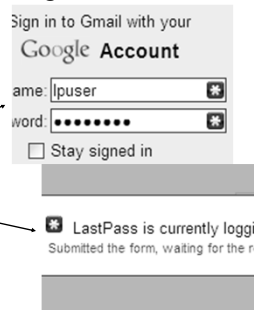- **Neutral**: works with Internet Explorer, Chrome, Firefox and Safari

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Password Manager Reviews

- PC Magazine
  http://www.pcmag.com/article2/0,2817,2407168,00.asp
- InfoWorld https://www.infoworld.com/d/security/review-7-password-managers-windows-mac-os-x-ios-and-android-189597
- PC World
  http://www.pcworld.com/article/208113/Best_Password_Managers_Top_4_Reviewed.html
- Inc Magazine http://www.inc.com/magazine/201303/john-brandon/review-password-management-tools.html

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Last Pass Site Login - 1

- When you navigate to a sign in site which you have set up in LastPass
  - If you selected Auto Login
    - The sign in fields are highlighted
    - They are filled out and the login is initiated

Sign in to Gmail with your
Google **Account**

ame: lpuser

word: ●●●●●●●

☐ Stay signed in

🞬 LastPass is currently loggi
Submitted the form, waiting for the r

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Adding a Site

- Automatically Saving A Site
  - The easiest and best way to add new sites to LastPass is to simply go to the site and login as you normally would. LastPass will present you with the following

| Should LastPass remember this password? | Save Site | Never For This ... | Not Now | X |

  - When you press the Save Site button, LP will pop the 'Save LastPass Site' dialog:
  - AutoLogin
    - Automatically fill out forms and log in user

Add LastPass Site

LastPass ★★★★

Name
facebook.com
Group

☐ Make This a Favorite
☐ Require Password Reprompt
☐ AutoLogin

Save Site   No Thanks

Changing to a Secure Password - 1

- When you launch the 'Change password' page. When you focus on the 'old password' field by clicking on it, LastPass should prompt you with a notification. Select Fill Current

| If you're creating an account or changing your password, hit generate to create a unique, secure password with LastPass. | Fill Current (2) | Generate | Never For This ... | X |

- After clicking 'Fill Current' and autofilling the password, you can then click 'Generate' to create a random, unique password:

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2 Factor Authentication

- In addition to User Name and Password, the first time you log in from a new computer/browser
- You must supply a 1 time password (or use biometric verification)
  - This can either be sent to your smart phone
  - Or generated by an "App" such as the *Google Authenticator*
  - 2FA is Supported by:
    - Google/Lastpass/Dropbox/Microsoft/Facebook/Twitter/YahooMail/PayPal

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HV1   Howard Verne, 6/18/2013