



Password Management Programs

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Do You Need a Password Manager?

Common Ways People Remember Passwords

- They use short passwords.
- They use passwords that are real names or words
- They write them on sticky notes and paste them on their monitor
- They use the same password everywhere.
- They write them down in a tablet and scratch out the old one when a new one is selected.



Passwords are the Keys to the Kingdom

- All websites with your information require some sort of username and password or PIN
- Passwords of 7 characters or less can be cracked with “brute force” programs on fast computers.
 - Most websites require a minimum of 8 characters.
 - Some want a number included and possibly a capital letter



Passwords are the Keys to the Kingdom

- If you use the same password for all websites, and it gets “hacked” you are vulnerable for all of your websites
- Using different passwords for different websites is a “Pain in the A__”.
- Ideally, you would use randomly generated passwords for each website.



Are There Alternatives to Passwords?

Some Things Being Tried

- Fingerprint readers
 - Slow and problematic
- Facial Recognition
 - Doesn't work well in different lighting conditions
- Draw a line between a numbers on a keypad
 - It's easier to remember a sequence of numbers.
- Draw a series of circles and lines on a favorite picture
 - No faster than entering a password



Ways to Remember Passwords

- Memorize Them. How good is your memory?
- Write them down in a tablet. Do you remember to write them all down even when you change them? Do you remember where you stored the tablet?
- Make a Spreadsheet to record all of your passwords. Keep the spreadsheet on your desktop (you can password protect it if you wish.)
- Obtain a Password Management Program



Spreadsheet for Passwords

I keep a Simple Spreadsheet on my computer to record all of my passwords.

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	Password Master		
Website	Website Address	Username	Password
Amazon	http://www.amazon.com/	philgoff	skinnygirl
Yahoo Mail	http://us.mg205.mail.yahoo.com	elephant@yahoo.com	mammoth1



Password Protect Excel

Protect Your Excel File with a Password

- Excel 2007 and Later
 - Select File – Save As – Options
 - Enter your password
- Excel 2010 and Later
 - Select File – Save As – Tools – General Options
 - Enter your password



Using Excel to Record Passwords

- Easy to forget to record changes in passwords
- Not available on other devices unless you store in the cloud
- No automatic password entry. You must look up the password and type it in.



Using Your Browser to Remember Passwords

- All Browsers will memorize Username and Password for a given site.
- Browser will automatically enter saved passwords for each website
- Must tell Browser to save passwords that have changed (can be confusing)
- Anyone who logs onto the computer will have access to the passwords
- Cannot be shared with other PC's, smartphones, tablets, etc.



Password Management Programs

- Keeps a record of your username and password for each website
- Generates new random passwords if you wish
- Fills in the username and password for websites when you visit them
- Stores the information in a secure database or in the cloud
- Some work with multiple devices, i.e. PC, Smartphone, etc.



Password Management Programs

- Many programs available. Most cost money.
- There are 3 free or low cost programs that lead the pack:
 - Roboform
 - LastPass
 - KeePass
- Many others also perform the basic requirements
 - SplashID
 - Kaspersky Password Manager
 - 1Password



Roboform

Comes in Three Versions. All Cost Money

- **Roboform Everywhere** stores information in the cloud so that you can access from everywhere. Cost is \$10/1st yr and \$20/yr thereafter.
- **Roboform Desktop** stores all of your information only on your hard drive and costs \$30 (one time.)
- **Roboform ToGo** allows you to store your info on a Flash Drive and use on other computers. Cost is \$40 (one time.)
- Roboform offers a 30 day free trial.



Roboform

- Fill in a form with username and password for all your websites.
- When you visit that site, you are automatically logged in.





LastPass

- Free program on CNET Downloads
- Most popular free password manager program
- Stores your passwords in the cloud
- Log into your Vault with one Password (don't forget it.)



LastPass

- LastPass attaches to your Browser as an Extension
 - You click on bookmark or toolbar to open a website.
 - When website asks for Username and Password, LastPass fills it in.
- LastPass works with IE, Chrome, Firefox, etc.
- Fills out forms asking for name, address, etc.
- Will generate random passwords if you wish
- Quite sophisticated and can be confusing at times
- They claim your data is thoroughly encrypted on their server and cannot be hacked.

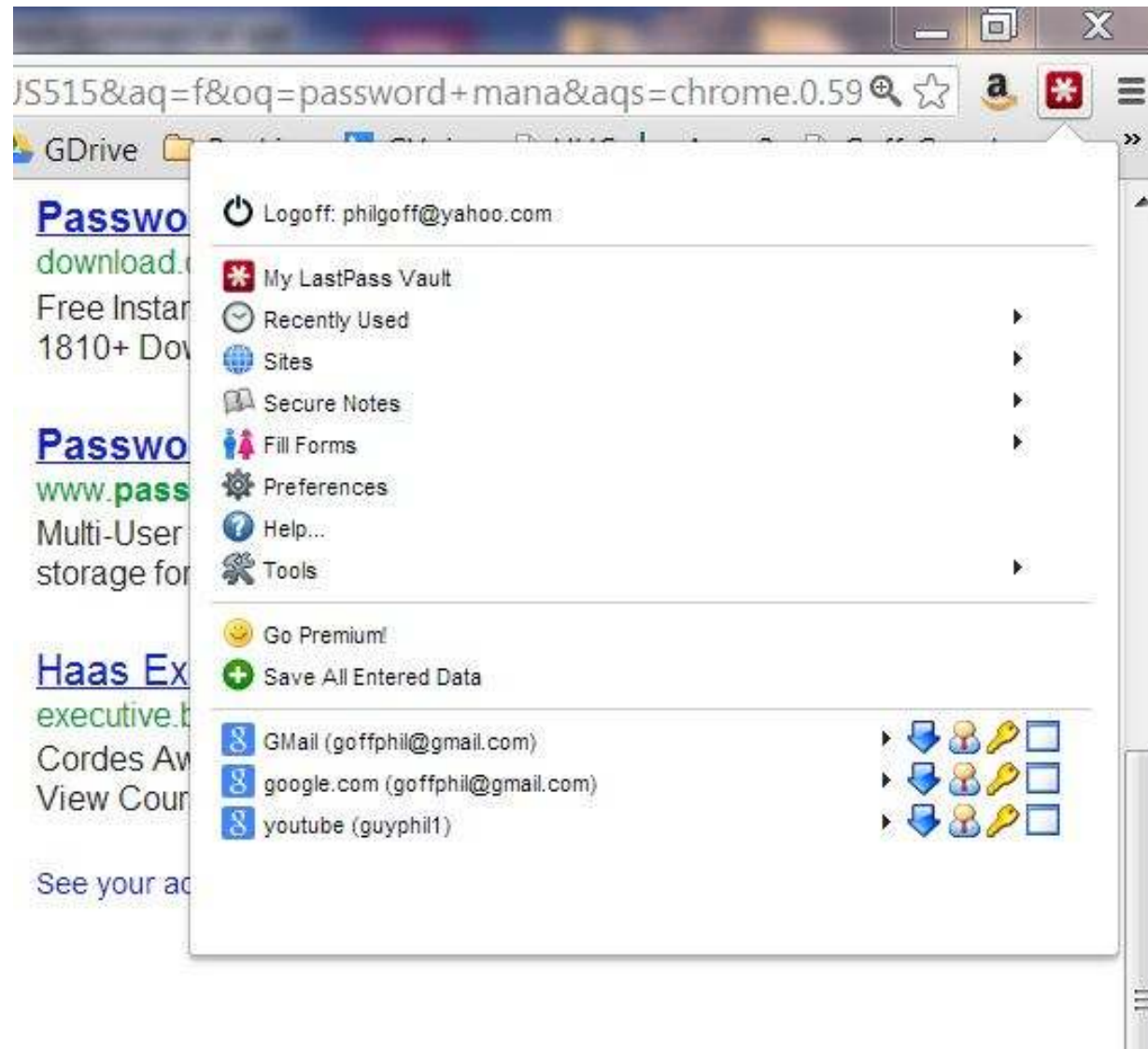


LastPass

- For Mobile device access, you must purchase the premium version at \$12/year.
- If interested, LastPass has a number of video tutorials at: https://lastpass.com/support_screencasts.php



LastPass





LastPass

Some Failures and Downsides

- A few websites don't automatically fill in.
 - Vanguard uses a two step process
 - ATT.com doesn't work for me.
- If you have two accounts for one website (e.g. Amazon), it will wait for you to select one.
- Some websites change their login address and you need to update LastPass
 - Your vault is a series of folders that you create
 - Each folder has websites that you save
 - You need to keep it up to date or it will become disorganized.



Keepass

- Free open source software (which sort of worries me)
- Usernames and passwords are stored in a Master Data file
- The Master Data file is encrypted with the most secure algorithm
- The Master Data file can be stored on your computer or a flash drive.
- Access the data file with a password (which you must not forget.)
- Not stored in cloud so can't be used with multiple devices.



KeePass

- Open KeePass, Click on Website Address and KeePass fills in usernames and passwords automatically
- Database also fills in forms for address, etc.
- KeePass will generate random passwords at your request
- You can print or export the data in your Master Data file in several different formats.



KeePass

The screenshot shows the KeePass Password Safe application window titled "MyDatabase.kdb - KeePass Password Safe". The window has a menu bar (File, Edit, View, Tools, Help) and a toolbar with various icons. On the left, a tree view shows a hierarchy of groups: General (with sub-groups Windows, Network, Internet, eMail, Homebanking), 0 Group, 1 Group, 3 Group, 4 Group, 6 Group, 7 Group, 8 Group, 9 Group, and 10 Group. The main pane displays a table of entries with columns for Title, User Name, Password, URL, and Notes. The entry "Sample #9" is selected, and a context menu is open over it, listing actions such as "Copy User Name to Clipboard", "Copy Password to Clipboard", "Open URL(s)", "Perform Auto-Type", "Add Entry...", "Edit/View Entry...", "Duplicate Entry", "Delete Entry", "Mass Modify (All Selected)...", "Select All", "Find in Database...", "Find in this Group...", and "Rearrange".

Title	User Name	Password	URL	Notes
Sample #9	Anonymous	*****	google.com	Some Notes
Sample #3...	Anonymous	*		
Sample #37	Anonymous	*		
Sample #40	Anonymous	*		
Sample #43	Anonymous	*		
Sample #46	Anonymous	*		
Sample #51	Anonymous	*		
Sample #54	Anonymous	*		
Sample #56	Anonymous	*		
Sample #60	Anonymous	*		
Sample #75	Anonymous	*		
Sample #82	Anonymous	*		
Sample #84	Anonymous	*		
Sample #92	Anonymous	*		

Group: Network, **Title:** Sample #9, **User Name:** Anonymous, **Password:** *****
Last Modification: 12.10.2007 19:47:07, **Last Access:** 12.10.2007 19:47:07

Some Notes

Total: 106 groups / 1297 entries 1 of 191 selected Re



Which Program for Me?

- If you only use one computer and visit few websites, consider a spreadsheet file kept on your computer. Let your Browser software memorize Usernames and Passwords.
- If you use one computer but visit many different websites with sensitive information
 - Use the free version of LastPass or KeePass
 - Both require a little time to setup.
- If you have more than one device, i.e. laptop, smartphone, tablet, etc.
 - Roboform and Lastpass are equally good but you must purchase the paid versions



Good Security Practices

- Use at least 3 different passwords
 - One for email
 - One for Financial Websites (credit card, bank, etc)
 - One for Shopping websites (Amazon, eBay, etc)
- Minimize the number of sites with your Credit Card Nos.
 - Use Paypal
 - Check your Credit Card Statements online or on paper
 - Major sites like Amazon seem to be safe