Privacy & Security: the Fear, the Hype, and What You Can Do About It

Security

1. Is your laptop or smartphone's traffic being harvested when on public wi-fi?
2. What's the best thing to do if your device is lost or stolen?
3. Is your data safely backed up?
4. Can criminals hold your data captive and ask for ransom?
5. Should you trust a password manager?
6. What are the advantages of using Touch ID on iPhones?
7. Is it a good idea to use mobile payment systems in retail stores?
8. How can you make theft of your identity less likely?

1. **Safety on public wi-fi**

How—and why—you should use a VPN any time you hop on the internet
http://www.techhive.com/article/3158192/privacy/howand-whyyou-should-use-a-vpn-any-time-you-hop-on-the-internet.html

ExpressVPN: https://www.expressvpn.com or TunnelBear: https://www.tunnelbear.com/

Choosing the VPN That's Right for You: https://ssd.eff.org/en/module/choosing-vpn-thats-right-you

2. **Lost devices**

Apple: Find my iPhone: https://www.apple.com/icloud/find-my-iphone/
Google: http://bgr.com/2016/06/01/google-find-your-phone-iphone-android/
Prey (tracking software): https://www.preyproject.com/

3. **Cloud backups**

CrashPlan: https://www.crashplan.com

4. **Ransomware**

WannaCry: https://www.engadget.com/2017/05/12/12-countries-hit-in-massive-cyber-heist/
4 Ways to Protect Against the Very Real Threat of Ransomware: https://www.wired.com/2016/05/4-ways-protect-ransomware-youre-target/
8 Tips for Preventing Ransomware: https://nakedsecurity.sophos.com/2016/03/24/8-tips-for-preventing-ransomware/

Your Biggest Online Security Risk Is You: https://www.wsj.com/articles/your-biggest-online-security-risk-is-you-1487786578

The Best Portable Hard Drive (reviews): http://thewirecutter.com/reviews/best-portable-hard-drive/

5. **Password managers**

1Password: https://1password.com/ or LastPass: https://www.lastpass.com

Creating strong passwords: https://ssd.eff.org/en/playlist/want-security-starter-pack#creating-strong-passwords

How to set up two-factor authentication: http://www.slate.com/articles/technology/future_tense/2017/02/how_to_set_up_two_factor_authentication.html

Authy (2FA app): https://authy.com/

6. **Fingerprint authentication**

Apple Touch ID: https://support.apple.com/en-us/HT201371

Fingerprint security: iOS vs Google Android: https://blog.elcomsoft.com/2016/06/fingerprint-unlock-security-ios-vs-google-android-part-ii/

More on biometric security: https://www.wired.com/2016/10/macbook-pro-touch-id-secure-enclave/

How to legally cross a US (or other) border without surrendering your data and passwords: https://boingboing.net/2017/02/12/how-to-cross-a-us-or-other-b.html

I'll never bring my phone on an international flight again: https://medium.freecodecamp.com/ill-never-bring-my-phone-on-an-international-flight-again-neither-should-you-e9289cde0e5f

7. **Mobile payment in retail stores**

Android Pay: https://www.android.com/pay/
Apple Pay: https://www.apple.com/apple-pay/

Don't Want Your Credit Card Hacked? Use Apple Pay: http://www.pcmag.com/article2/0,2817,2489330,00.asp

8. **Identity theft**

How to protect yourself from Identity Theft: http://www.consumerreports.org/cro/2010/07/protect-your-identity/index.htm

FTC: Report identity theft and get a recovery plan: https://identitytheft.gov/

Phishing scams: avoid the bait (quiz/game — requires Flash): https://www.consumer.ftc.gov/media/game-0011-phishing-scams

Find out if your accounts have been compromised in a data breach: https://haveibeenpwned.com/

Privacy

1.   Is your laptop camera or microphone recording without you knowing it?
2.   Are you giving away information for targeted advertising?
3.   How easy is it for anyone to see all of your search engine history?
4.   Should you use encrypted messaging and email? How?

1. Laptop camera hacking

Mark Zuckerberg Covers His Laptop Camera. You Should Consider It, Too: https://www.nytimes.com/2016/06/23/technology/personaltech/mark-zuckerberg-covers-his-laptop-camera-you-should-consider-it-too.html

What's the Best Way to Cover Your Webcam? http://www.slate.com/blogs/future_tense/2016/09/15/the_best_ways_to_cover_a_webcam.html

Taping over your computer microphone does nothing — here's what to do instead: http://mashable.com/2016/06/22/computer-microphone-hack/#4rsDccUMxkqw

How Amazon Echo Users Can Control Privacy: https://www.forbes.com/sites/tonybradley/2017/01/05/alexa-is-listening-but-amazon-values-privacy-and-gives-you-control/#5a2b51667ee6

2. Targeted advertising

How targeted advertising works: https://www.washingtonpost.com/apps/g/page/business/how-targeted-advertising-works/412/

FTC: Online tracking: https://www.consumer.ftc.gov/articles/0042-online-tracking

Best ad blockers and privacy trackers: http://www.tomsguide.com/us/pictures-story/565-best-adblockers-privacy-extensions.html#s1

Facebook ad settings: https://www.facebook.com/settings?tab=ads
Facebook privacy tips: How to share without oversharing: https://blog.mozilla.org/internetcitizen/2017/01/25/facebook-privacy-tips/

3. Your search engine history

How to Let Someone Else Use Your Computer Without Giving Them Access To All Your Stuff: https://www.howtogeek.com/170269/how-to-let-someone-else-use-your-computer-without-giving-them-access-to-all-your-stuff/

See your Google activity: https://myactivity.google.com/myactivity

Google: Delete searches & other activity from your account: https://support.google.com/websearch/answer/465?authuser=0

Private browsing on Chrome: Incognito Mode: https://myshadow.org/how-to-increase-your-privacy-on-chrome

Turn Private Browsing on or off on your iPhone, iPad, or iPod touch: https://support.apple.com/en-us/HT203036

Introducing Firefox Focus – A Free, Fast Private Browser for iPhone: https://blog.mozilla.org/blog/2016/11/17/introducing-firefox-focus-a-free-fast-and-easy-to-use-private-browser-for-ios/

DuckDuckGo (search engine that doesn't track you): https://duckduckgo.com/

TOR (anonymity online): https://www.torproject.org/
Onion browser (iOS): https://mike.tig.as/onionbrowser/
Orbot (Android): https://play.google.com/store/apps/details?id=org.torproject.android&hl=en
TOR for Windows (guide): https://ssd.eff.org/en/module/how-use-tor-windows
TOR for Mac (guide): https://ssd.eff.org/en/module/how-use-tor-mac-os-x

4. Encrypted messaging and email

An Introduction to Threat Modeling: https://ssd.eff.org/en/module/introduction-threat-modeling

Signal (private messaging): https://whispersystems.org/
How to use Signal on iOS: https://ssd.eff.org/en/module/how-use-signal-ios
How to use Signal on Android: https://ssd.eff.org/en/module/how-use-signal-android

HTTPS Everywhere: https://www.eff.org/https-everywhere

ProtonMail (encrypted email): https://protonmail.com/
Riseup (encrypted email): https://riseup.net/en/email
Mailvelope: https://www.mailvelope.com/en

What End-To-End Encryption Does Not Do (metadata): https://ssd.eff.org/en/playlist/want-security-starter-pack#communicating-others (bottom of this page)

Practicing Good Personal Cybersecurity Isn't Just About Protecting Yourself: http://www.slate.com/articles/technology/future_tense/2017/02/everyone_needs_to_take_computer_security_seriously.html

Summary

Cybersecurity Knowledge Quiz - Pew Internet
http://www.pewinternet.org/quiz/cybersecurity-knowledge/

EFF: Security starter pack: https://ssd.eff.org/en/playlist/want-security-starter-pack