PRIVACY & SECURITY UNDER ATTACK



Dave Hatter, CISSP, CCSP, CSSLP, Security+, Network+, PMP, ITIL V3

"Doomsday" Dave



"Privacy is one of the biggest problems in this new electronic age" – Andy Grove

"We believe the customer should be in control of their own information. You might like these so-called free services, but we don't think they're worth having your email, your search history and now even your family photos data mined and sold off for God knows what advertising purpose. And we think some day, customers will see this for what it is." — Tim Cook

If you're not paying with money, you're paying with data. You're the product NOT the customer

My goals for today

- Educate you
- Motivate you
- Provide actionable advice
- Have fun

Ripped from the headlines







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Home > News > Networking

T-Mobile to Share Customers' Web Browsing Data With Advertisers Unless They Opt Out

The upcoming policy doesn't mention the risk of third-party advertisers combining T-Mobile customer information with their own stockpile of tracking data, which could de-anonymize users' activities.

BGR

ENTERTAINMENT

LIFESTYLE

Google finally reveals the terrifying amount of data Gmail collects on LELY HAY NEWHAN iPhone



INSIGHTS

RESOURCES

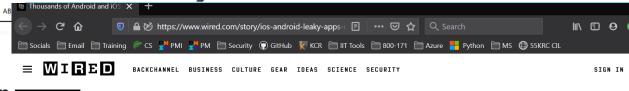
Over a Billion Android Phones Turned Into **Perfect Spying Tools by Security Flaws**



Cell Data Offers Look at California Pandemic Travel

Through a compilation of cellphone location tracking data, Google has painted a picture of how Californians have changed their travel habits as a result of the ongoing COVID-19 pandemic.





Thousands of Android and iOS Apps Leak Data From the Cloud

It's the digital equivalent of leaving your windows or doors open when you leave the house—and in some cases, leavir them open all the time.



Latest in Gear

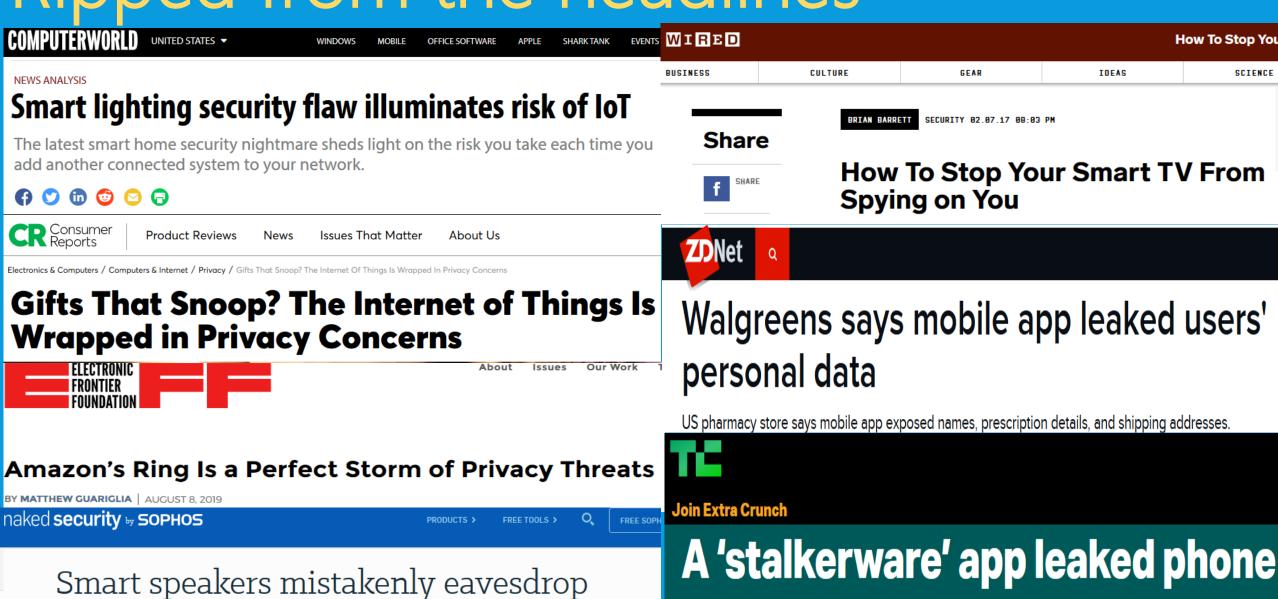


Your fitness tracker probably has security issues

Hackers could theoretically track you or manipulate your health data.

Ripped from the headlines

up to 19 times a day



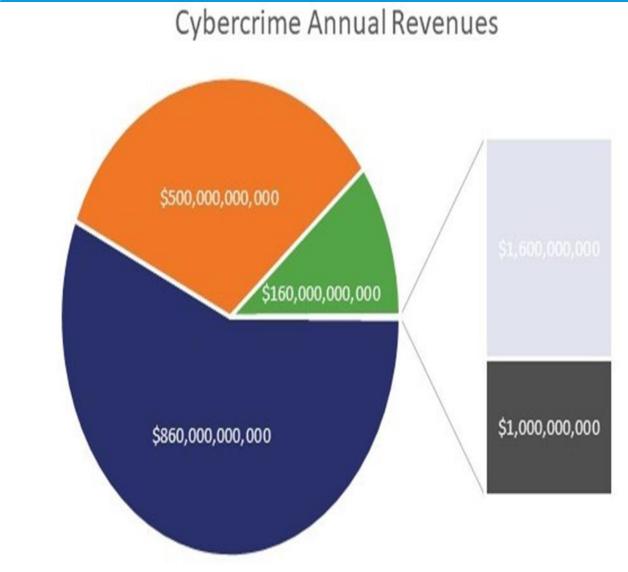
data from thousands of victims

Why now?

- Increasing use of technology in all facets of life
- Massively scalable computing resources available ondemand (cloud)
- Untraceable worldwide communications (encryption)
- Virtual international currency (cryptocurrency)
- Ever increasing number of connected devices
- -And...

Crime is going digital

- Cyberattacks are increasing in frequency, sophistication, impact and cost
- A study by Dr. Michael McGuire puts value of the cybercrime economy at \$1.5 trillion
- Could hit \$10 trillion by 2025
- Cybercriminals are rarely prosecuted

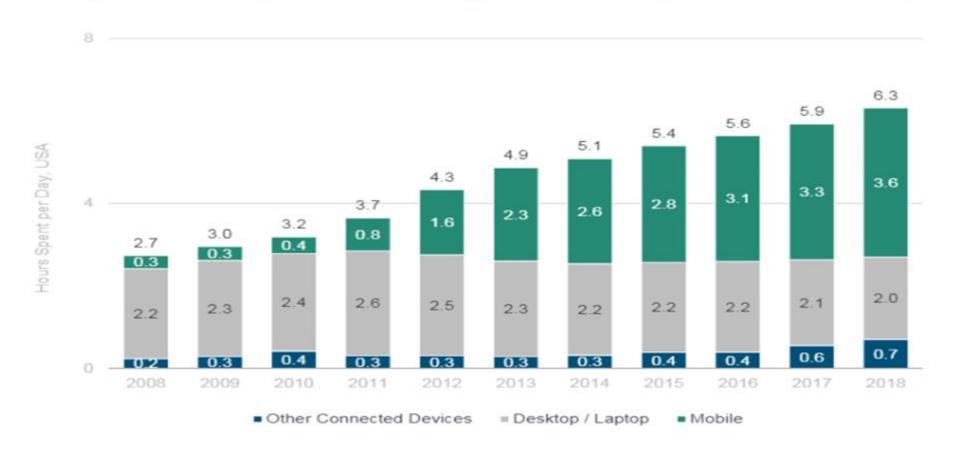


■ Illegal online markets ■ Trade secret, IP theft ■ Data Trading ■ Crime-ware/CaaS ■ Ransomware

More data is being created

Accelerating +7% vs. +5% Y/Y

Daily Hours Spent with Digital Media per Adult User, USA



2020 Internet Minute



Source: Visual Capitalist









And... pervasive data collection

Passwords Web browser autofill Stored in the file system Deleted Files All deleted files, including ones no longer in recycle bin or trash, can be recovered until physical storage

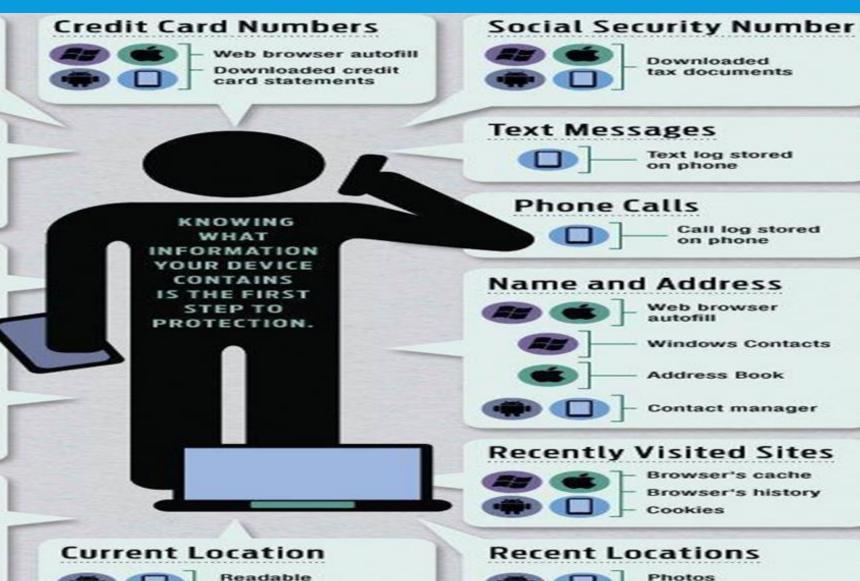












Navigation apps

Data is increasingly valuable

Your identity is a steal on the Dark Web.

Here are what the most common pieces of information sell for:



Social security number



\$1

Online payment services login info



\$20-\$200

(e.g. Paypal)



Credit or debit card (credit cards are more popular)



\$5-\$110

With CVV number \$5

With bank info \$15

Fullz info* \$30

Drivers license



\$20

Loyalty accounts



\$20

General non-financial institution logins



\$1

Diplomas



\$100-\$400

Passports (US)



\$1000-\$2000

Subscription services

\$1-\$10

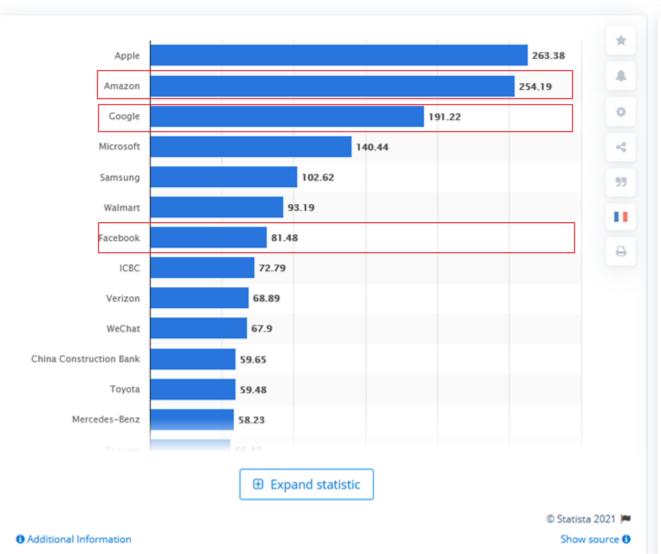
Medical records

\$1-\$1000**

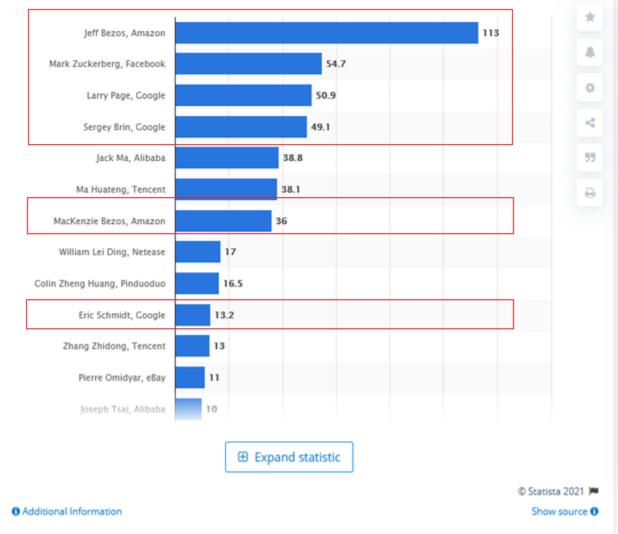
And.. data is increasingly valuable

Most valuable brands worldwide in 2021

(in billion U.S. dollars)



Leading internet billionaires as of March 2020, by net worth (in billion U.S. dollars)



Who does Facebook Own?

- Instagram
- WhatsApp
- Oculus VR



Markets Tech Media Success Video



Facebook is facing an existential crisis

by Dylan Byers @CNNMoney

(L) March 19, 2018: 10:40 AM ET













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SmartAsset

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These are your 3 financial advisors near you

This site finds and compares 3 financial advisors in your area

Check this off your list before retirement: talk to an advisor

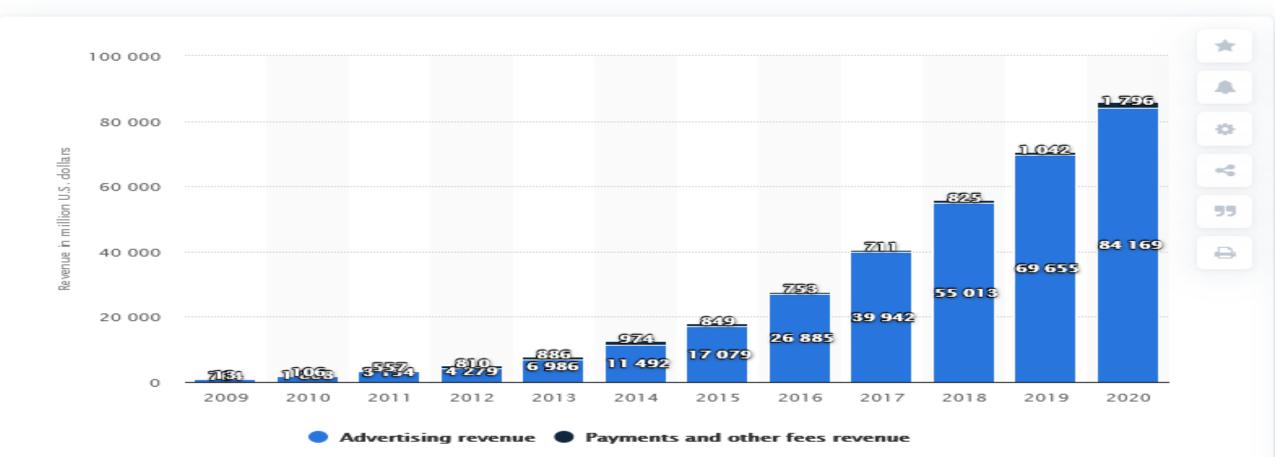
Answer these questions to find the right financial advisor for you

Find CFPs in your area in 5 minutes

And.. data is increasingly valuable

Facebook's annual revenue from 2009 to 2020, by segment

(in million U.S. dollars)



Who does Alphabet (Google) Own?

- Android
- YouTube
- Gmail
- GSuite
- Fitbit
- Blogger
- Picasa
- Nest
- Zagat



BEST PRODUCTS V REVIEWS V NEWS V VIDEO V HOW TO V SMART HOME V CARS V DEALS V DOWNLOAD 50

Google, plagued by data and privacy issues, still rakes it in

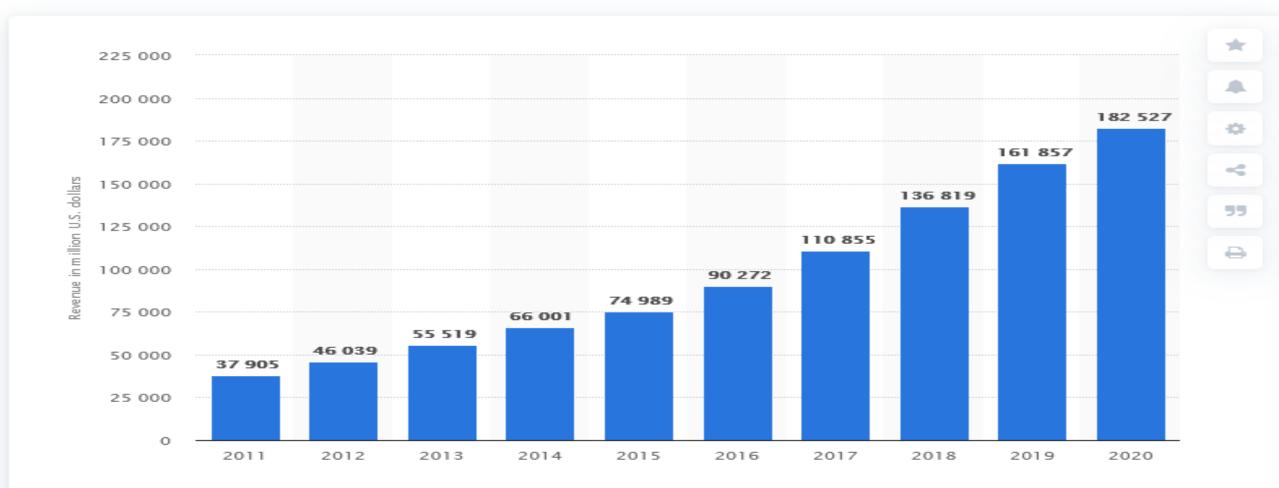
Despite scandals, like its spat with Apple or its Dragonfly search project, business is good.

Boston Dynamics

And.. data is increasingly valuable

Annual revenue of Alphabet from 2011 to 2020

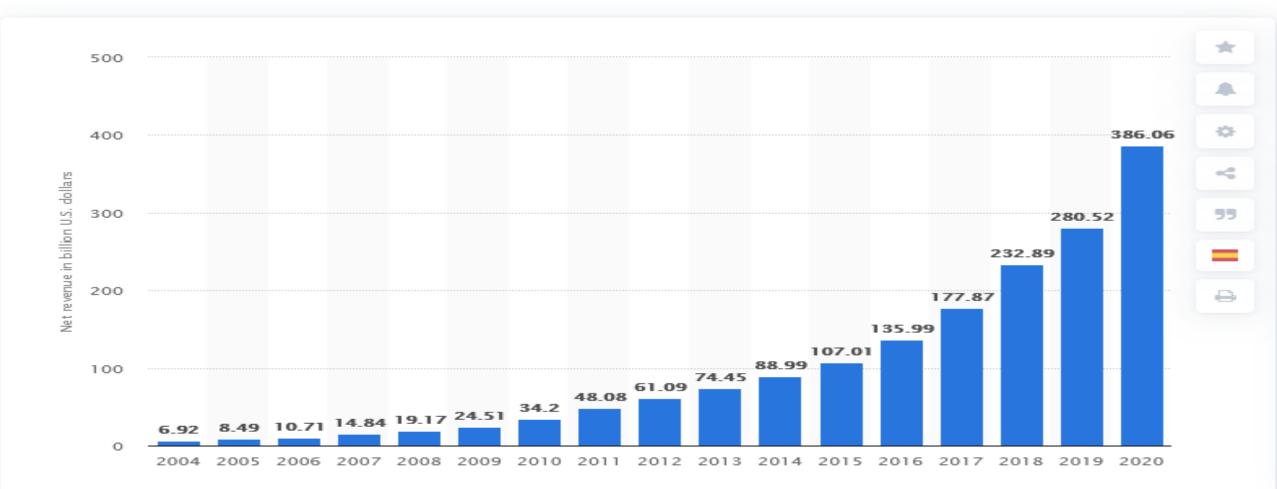
(in million U.S. dollars)



And.. data is increasingly valuable

Annual net revenue of Amazon from 2004 to 2020

(in billion U.S. dollars)



Who does Amazon Own?

- AWS
- Whole Foods
- Ring
- Zappos
- PillPack
- Twitch
- Kiva
- Audible



Alexa has been eavesdropping on you this whole time

When Alexa runs your home, Amazon tracks you in more ways than you might want.



My life in data

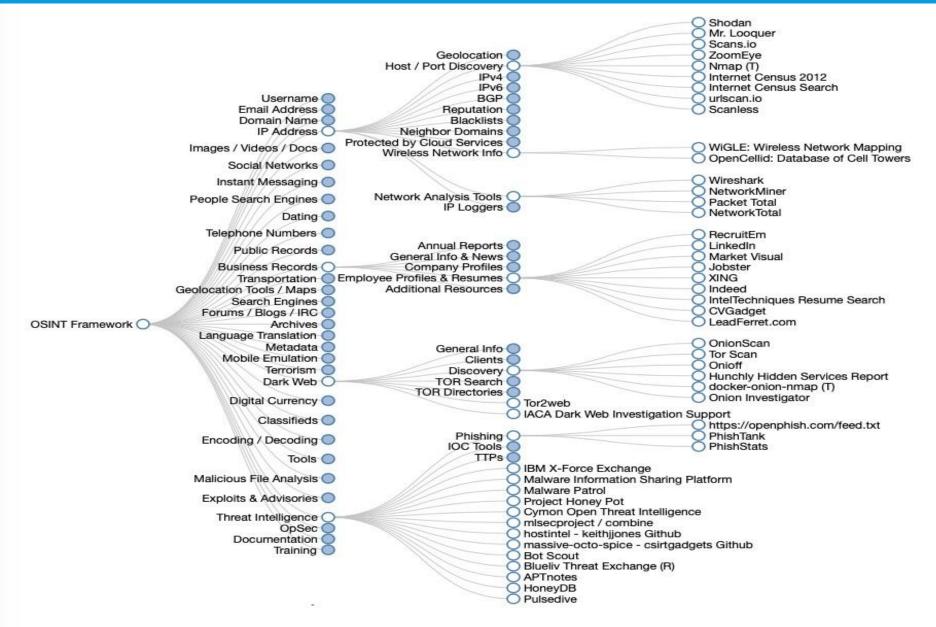
'They know us better than we know ourselves': how Amazon tracked my last two years of reading

Eliminate the middleman?



CUTTING OUT THE MIDDLEMAN

And... Open-Source Intelligence



And... Shodan





Explore the Internet of Things

Use Shodan to discover which of your devices are connected to the Internet, where they are located and who is using them.



See the Big Picture

Websites are just one part of the Internet. There are power plants, Smart TVs, refrigerators and much more that can be found with Shodan!



Monitor Network Security

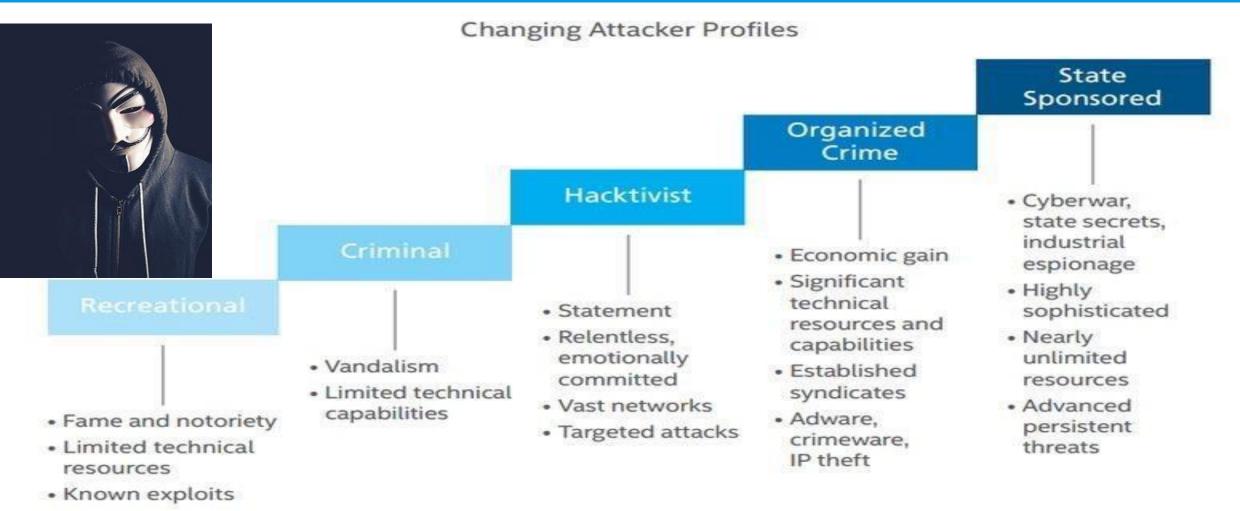
Keep track of all the computers on your network that are directly accessible from the Internet. Shodan lets you understand your digital footprint.



Get a Competitive Advantage

Who is using your product? Where are they located? Use Shodan to perform empirical market intelligence.

And... Threat Actors



INCREASING RESOURCES AND SOPHISTICATION

The expansion of attacker types, their resources, and their sophistication.

And... the attack surface grows daily



THE EXPLOSION

OF IOT DEVICES

30.73 BILLION

ioT devices expected by 2020*

75.44BILLION

IoT devices expected by 2025



IoT devices are inherently vulnerable and relatively easy to hijack. Why?



They're leaving security up to the owner



They're not regularly patched



They're not running security software



They're not designed with security in mind







EVERYTHING IS CONNECTED!

toT devices are in our homes and offices, and on our bodies



22 Million

Amazon Echos sold in 2017⁸



1 Per Second

how often Google says it has sold a Google Home device since October 2017*



\$310.4 Million

And... Security is often an afterthought

- People working remotely are at higher risk
- loT devices are creating more attack points
- An attack can open an organization to devastating attacks and crippling consequences
- An organization can incorporate cybersecurity into business practices and processes, OR react to security failures
- Be proactive and be prepared, or be sorry

Privacy != Security

 Privacy: Control of your personal information and how it's used

Security: how your personal information is protected

Privacy myths

- It's impossible maintain some privacy in today's world
- -My data (or the data I have access to) isn't valuable
- -I have to be a technical wizard to protect myself
- I have nothing to hide

Cybersecurity myths

- My organization is too small or insignificant to be a target
- -Cybersecurity requires a huge financial investment
- Attacks are sophisticated or technically complex
- New software and devices are secure out-of-thebox
- Compliance with industry standards is sufficient
- -Security is an IT issue

It's a matter of when, not if...

- "No locale, no industry or organization is bulletproof when it comes to the compromise of data." – Verizon 2016 Data Breach Investigation Report
- "Fundamentally, if somebody wants to get in, they're getting in.
 Alright, good. Accept that." former director of the CIA and National Security Agency Retired Gen. Michael Hayden
- Cybercrime is "the greatest threat to every profession, every industry, every company in the world." – IBM CEO Ginni Rometty
- "There are two kinds of companies in the United States. There are those who've been hacked ... and those who don't know they've been hacked." - Former FBI Director James Comey

Guiding principals of security

- Impenetrable security is nearly impossible and very expensive
- Focus on risk
- Take a layered approach
- Invite security to the party from the beginning
- Threats emerge and evolve constantly
- Education and awareness are critical
- Maintain a very healthy dose of skepticism/paranoia

- 3 simple steps to remember
- -Stop
- -Think
- -Protect Be a human firewall

Threats: Poor credential management



User : Admin Password : 12345





Username : admin Password : admin

Threats: Unpatched Software

- A Ponemon Institute survey found 57% of security breaches were due to vulnerabilities in unpatched software
- 34% of these cybercrime victims were aware of holes but didn't patch them in time.
- 37% of breach victims don't perform regular scans to find vulnerabilities in their own systems
 - Patching gaps are an issue:
 - Unaware of the updates that are available
 - Know updates are available, but don't have the resources or strategies implement the patches

Threats: Spoofing

- "Spoofing, in general, is a fraudulent or malicious practice in which communication is sent from an unknown source disguised as a source known to the receiver. Spoofing is most prevalent in communication mechanisms that lack a high level of security." Techopedia
- Spoofing leads to:
 - Phishing
 - Vishing (Voice based)
 - Smishing (Text based)
 - Doppleganger or Lookalike websites

Threats: Phishing

"Cybercrime in which a target or targets are contacted by email,
telephone or text message by someone posing as a legitimate
institution to lure individuals into providing sensitive data such as
personally identifiable information, banking and credit card details, and

passwords." - Phishing.org

- Types of Phishing include:
 - Spear phishing
 - Whaling
 - Vishing
 - Smishing



Threats: Phishing

From: Dave Hatter <pm772858@gmail.com>

Sent: Wednesday, October 30, 2019 1:23 PM

To: Jeff Bethell < jbethell@fortwright.com>

Subject: Hey Jeff

Hey Jeff, i need you to help me get some gift cards at the store right now for some council members / staff appreciation gifts, let me know if you can do that right away because there is a sharp deadline for this request.

Dave Hatter

Mayor

Sent from my mobile device



Joyce Woods To: David Hatter: U

Inbox

You replied on 3/3/2016 2:02 PM.

-----Driginal Message-----

From: Dave Hatter [mailto:dhatter@fortwright.com]

Sent Wednesday, March 02, 2016 4:09 PM

To: Joyce Woods </br>

Subject: RE: Question

Thanks for the information. I need you to initiate 2 wire transfers today for an international payment and a local payment also. Let me know what information is required.

Sent from my iPhone

Sorry Dave.

I just got your message. I have been working on other things. If you mean the General Fund Checking Acct, the balance today is \$4,285,408.72.

Joyce

From: Dave Hatter [mailto:dhatter@fortwright.com]

Sent: Wednesday, March 02, 2016 12:35 PM

To: Joyce Woods woods@fortwright.com >

Subject Question

Are you available? I need to ask you a quick question What is the present balance in the operating checking account? Reply as soon as possible.

Sent from my iPhone



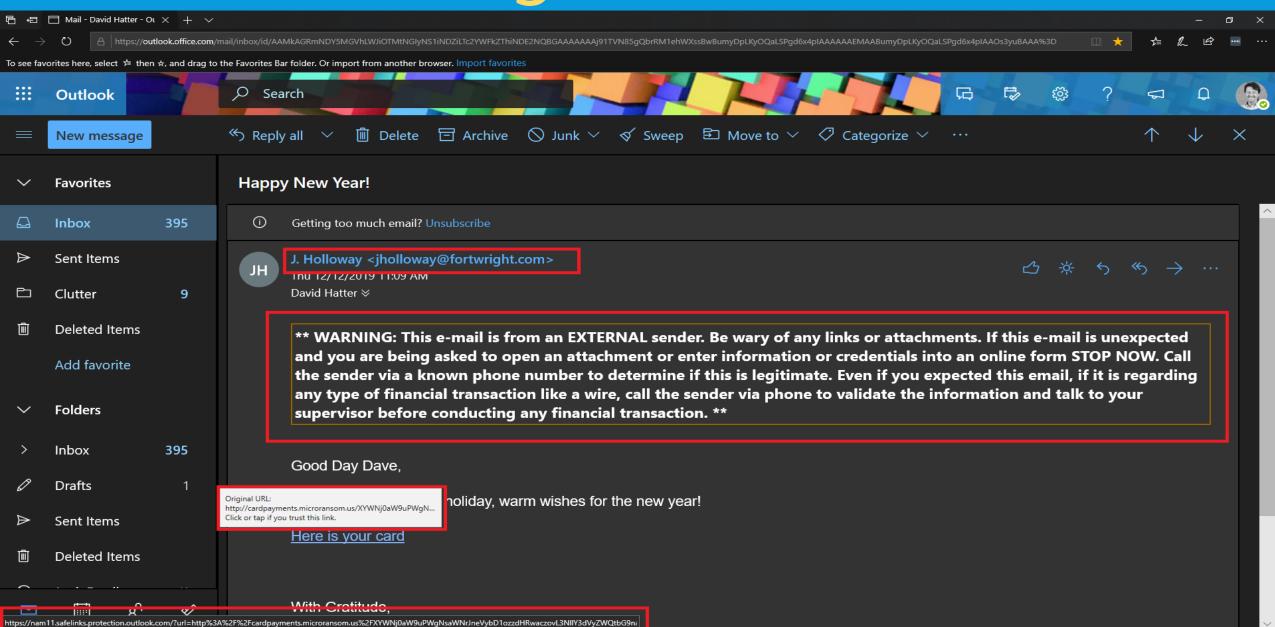
Joyce Woods

To: David Hatter; y

From: Dave Hatter [mailto:dhatter@fortwright.com]
Sent: Wednesday, March 02, 2016 12:35 PM
To: Joyce Woods <jwoods@fortwright.com>
Subject: Question

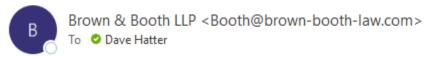
Are you available? I need to ask you a quick question What is the present balance in the operating checking account? Reply as soon as possible.

Sent from my iPhone





RE: Divorce papers



i) If there are problems with how this message is displayed, click here to view it in a web browser.

Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of

WARNING: This e-mail is from an external sender. Be suspicious of any links or attachments. If you are r about any type of financial transaction like a wire, call the sender via phone to validate all the information

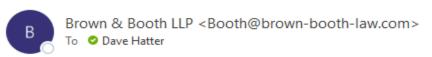
Dave

My name is Keith Booth and I am a senior partner at BROWN & BOOTH LLP. Your spouse has contracted me to prepare the divorce papers. Here is the first draft, please contact me as soon as possible:

http://www.brown-and-booth-law.com/papers/divorce Hatter.doc

Thank you Keith L. Booth

RE: Divorce papers



If there are problems with how this message is displayed, click here to view it in a web browser.
 Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of some pictures in this

WARNING: This e-mail is from an external sender. Be suspicious of any links or attachments. If you are not expecting this eabout any type of financial transaction like a wire, call the sender via phone to validate all the information.

Dave

My name is Keith Booth and I am a senior partner at BROWN & BDC Your spouse has contracted me to prepare the divorce papers. Here is the first draft, please contact me as soon as possible:

http://www.brown-and-booth-law.com/papers/divorce Hatter.cpc

ank you

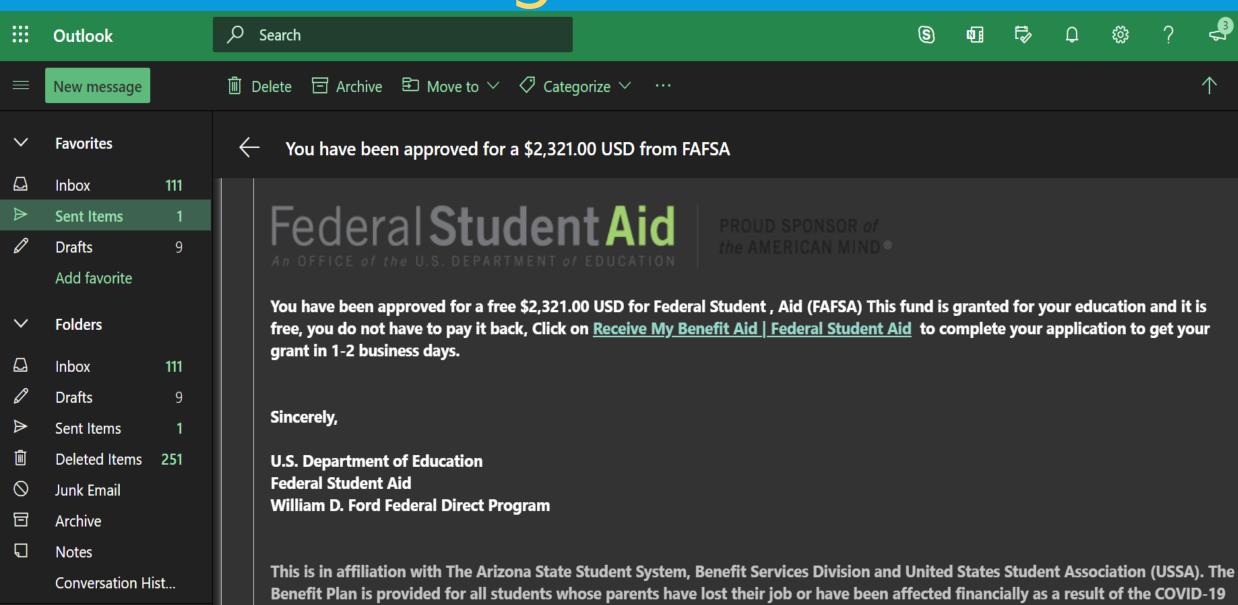
Original URL:

http://addto.password.land/ xywns0aw9upwqnsawnrjnvvybd1orgdhr wnczovl3nlby3cvyzwqtbg9naw4ubmv0rl 3bhz2vzl2findfly2jkngzhjnjly2lwawvudf9 pzd01ntgxmdaxmjemy2ftcgfpz25fcnvux 2lkpti3mjyyndu= Click or tap to follow link.

Thank you Keith L. Booth



繭



Disease. The plan is tax qualified under section 401(a) of the Arizona Internal Revenue Code. It is a "cost sharing" model, meaning both

Threats: Malware

- Viruses
- Worms
- Keystroke Loggers
- Adware
- Bots
- Zombies
- Rootkits
- Crypto miners



Privacy Threats: Ransomware

- Malware that encrypts data and demands a ransom
 - "The losses from ransomware attacks have increased significantly, according to complaints received by IC3 and FBI case information. Although state and local governments have been particularly visible targets for ransomware attacks, ransomware actors have also targeted health care organizations, industrial companies, and

the transportation sector." - FBI

- Delivered many ways:
 - Phishing
 - Infected web sites
 - Compromised devices

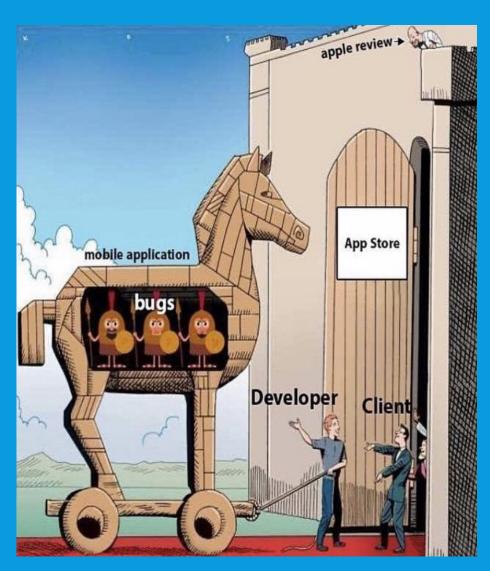


Threats: Open Ports

- Attackers can use open ports to compromise devices
- Compromised devices can be used in several ways:
 - Data exfiltration
 - Botnets
 - Access to other devices in the network
 - Surveillance

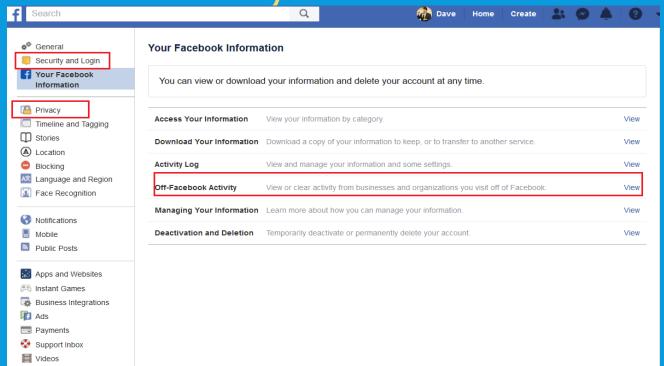
Threats: "Free" software

- Many "free" apps are thinly veiled malware
- 172 malicious apps hosted on Google Play were installed more than 335 million times in September of 2019 and have been found in the Apple store too
- Delete apps you no longer need
- Do your homework and vet apps carefully



Threats: Social Media

- Your "privacy" settings do not guarantee privacy
- Your data may be sold
- Your data my be breached

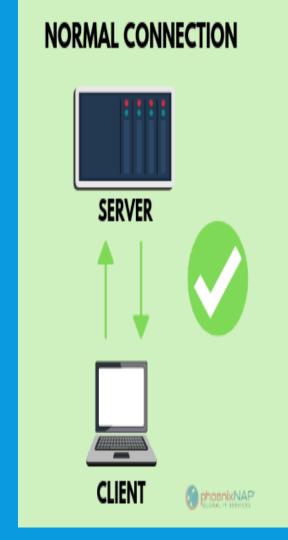


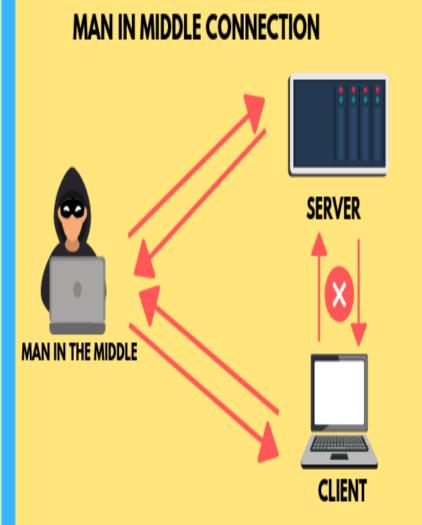


Threats: Public Wi-Fi

- Information can be stolen
- Malware can be planted
- Use a VPN
- Use a hotspot on your mobile phone

MIDDLE IN THE MIDDLE ATTACK EXAMPLE





Threats: Internet of Things (IoT)

- Patching issues
- Misconfiguration
- Apps steal data / leak data
- Malware
- Sensitive data loss



Your insecure Internet of Things devices are putting everyone at risk of attack

IoT devices are becoming more and more popular but many of the products people are installing don't come with adaquate security - and that's something cyber criminals can take advantage of.

loT background

- "The Internet of Things (IoT) refers to the capability of everyday devices to connect to other devices and people through the existing Internet infrastructure. Devices connect and communicate in many ways. They are able to communicate with consumers, collect and transmit data to companies, and compile large amounts of data for third parties." EPIC
- In 1982 the first device connected to the Internet was a Coca-Cola vending machine that could control the temperature of the machine and keep track of inventory
- The term "Internet of Things" was coined by Kevin Ashton in 1999

IoT Dumpster Fire

The Washington Post

Democracy Dies in Darkness

Innovations

How a fish tank helped hack a casino



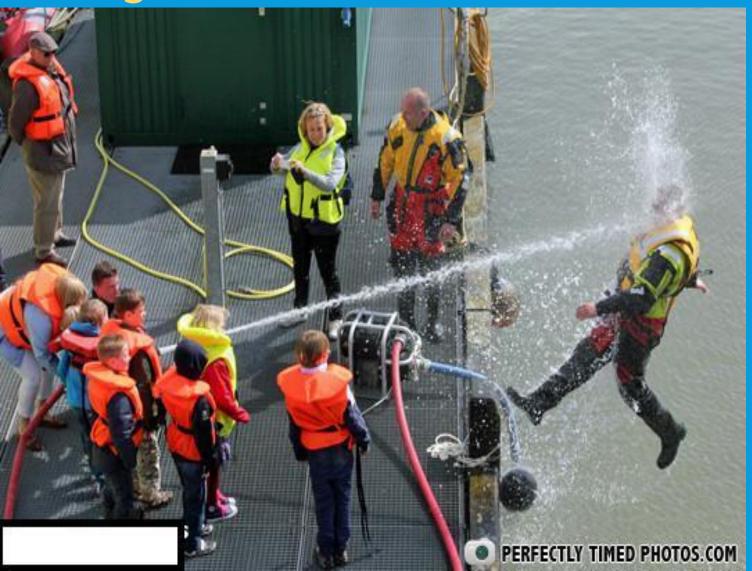


IoT = Asbestos

- •Mikko Hyppönen, CTO at F-Secure said the IoT revolution is "taking everything else online" and eventually "anything that uses electricity will be online"
- Hyppönen warned about the proliferation of IoT devices: "What's happening right now, around us, I guess would be characterized as IT asbestos"
- D2: Disconnect and discard

Defenses

It might feel like this...



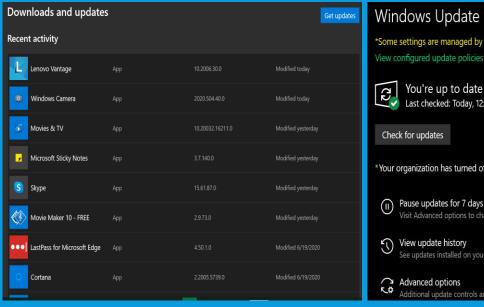
Don't be scared be prepared!

Defenses

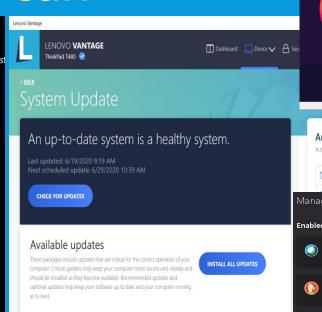


Defenses: Software updates

- Vendors regularly release updates
- Updates may contain productivity and/or security fixes
- ALL devices that contain software should be updated
- Automate this process if you can





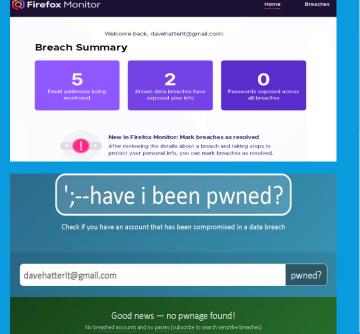


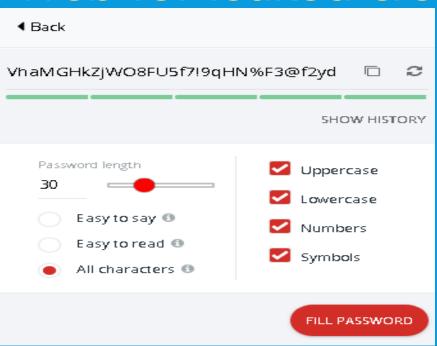


DuckDuckGo Privacy Essentials 😔 👳

Defenses: Password Hygiene

- -Use strong, unique passwords for every account
- A passphrase is better. e.g. "1 love pizz@ with onions"
- -Use a password manager with MFA.
- Check the Dark Web for leaked creds



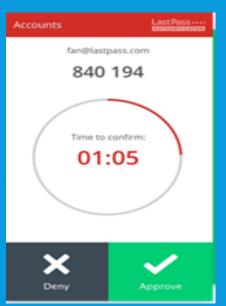




- Previous breach exposures
- O Dictionary words
- 2 Less than 8 characters
- Repetitive characters
- **©** Context-specific words
- **2 Password hints**

Defenses: Multi-factor Authentication

- Aka Two-factor Authentication or Two-Step Verification
- Microsoft and Google have recently indicated MFA can stop 99% of all automated attacks
- Enable MFA everywhere
- Use an authenticator app like Authy rather than SMS based OTPs









Defenses: Endpoint Protection

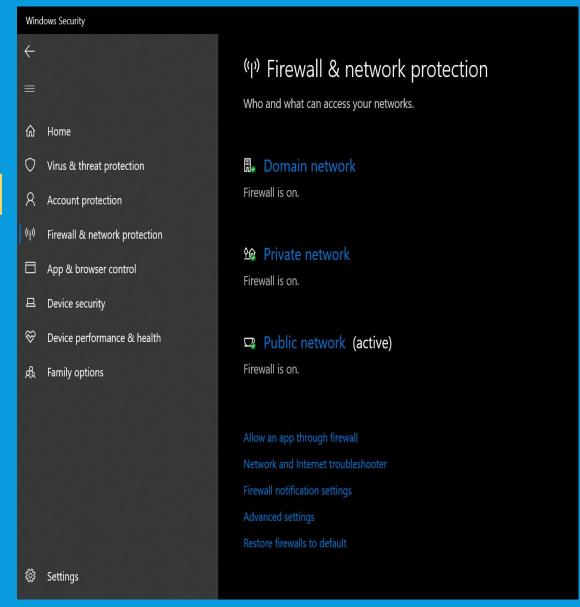
- Vendors regularly release updates
- Also known as anti-malware or anti-virus software
- Update definitions
- Disable everything and enable functionality as required
- Consider more than one

Figure 1. Magic Quadrant for Endpoint Protection Platforms



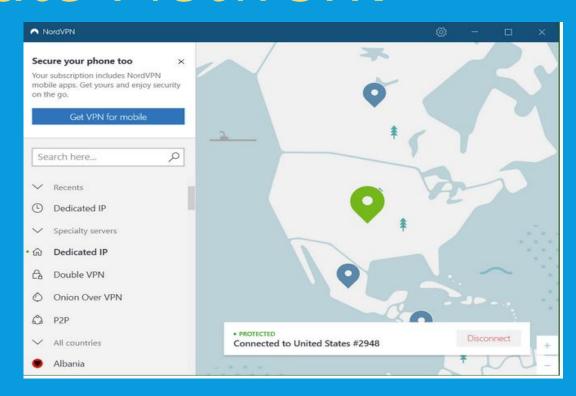
Defenses: Firewall

- Use a firewall to protect your device / network
- Your router can be configured to be a firewall
- Windows comes with a software firewall



Defenses: Virtual Private Network

- A VPN creates an encrypted connection
- May not be required if all your apps are cloud based
- Never use public Wi-Fi without a VPN
- The best include NordVPN,
 IPVanish and TunnelBear
- Vet the VPN software carefully!

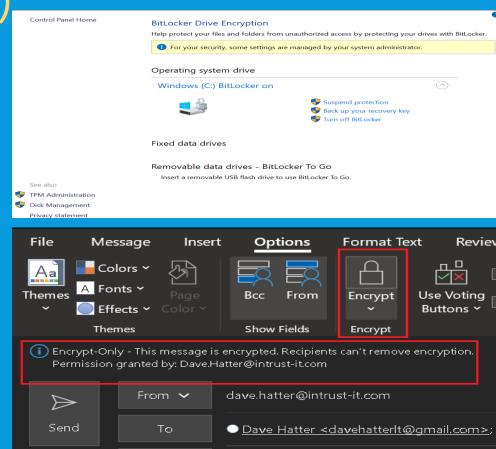




Defenses: Encryption

- Encryption scrambles data so that it can only be unscrambled with the appropriate key
- Use Encryption (at rest and in motion)
- Enable BitLocker for data a rest
- Look for https:// in the browser
- Use encryption to protect email
- Use encryption to protect messaging





Defenses: Router

- Change default password to a strong password
- Enable WPA2 or higher encryption
- Enable firewall
- Update regularly
- Use a guest network



Router Auto Firmware Update Enable router to automatically update to future firmware. This keeps your router up to date with the latest features and security fixes. Select one of the following options: Disable



Defenses: Router

- Disable SSID broadcast
- Whitelist devices
- Disable WPS
- Use 3rd party DNS
- Disable remote management
- Create VLANS



Port Authority Edition – Internet Vulnerability Profiling
by Steve Gibson, Gibson Research Corporation.

Universal Plug n'Play (UPnP) Internet Exposure Test

This Internet probe sends up to ten (10) UPnP Simple Service Discovery Protocol (SSDP) M-SEARCH UDP packets, one every half-second, to our visitor's current IPv4 address (74.133.146.161) in an attempt to solicit a response from any publicly exposed and listening UPnP SSDP service. The UPnP protocols were never designed to be exposed to the public Internet, and any Internet-facing equipment which does so should be considered defective, insecure, and unusable. Any such equipment should be disconnected immediately.

Your equipment at IP:



Is now being queried:

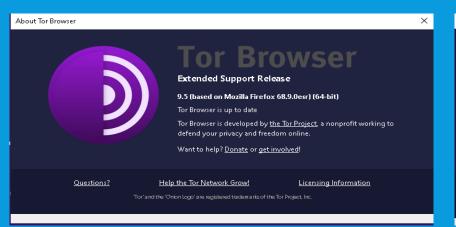


THE EQUIPMENT AT THE TARGET IP ADDRESS
DID NOT RESPOND TO OUR UPnP PROBES!

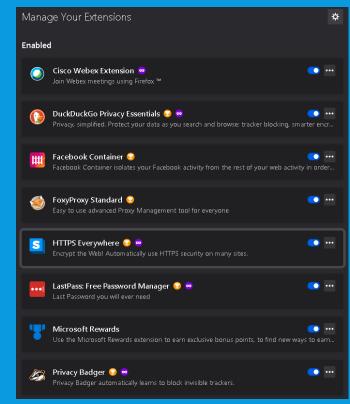
(That's good news!)

Defenses: Vet software carefully

- Do your homework and vet apps
- Don't download the latest viral thing
- This applies to desktop apps, mobile apps, and browser extensions
- Delete apps you don't need
- Use privacy friendly platforms & apps









Defenses: Hardening

- Configuring systems to make them more difficult to hack
- For example, change default passwords and remove unnecessary accounts
- Lock the screen when not in use
- Don't make work devices visible on the network
- Check out the CIS Benchmarks One CIS Benchmarks



Defenses: Backup

- Backup data and verify the backup integrity
- Rule of Three: Maintain three copies of your data.
 The original, a copy, and a copy of the copy.
 One should be in a safe place away from the others
- Look for a service that allows you to define a personal encryption key. If not, read the privacy policy carefully
- Tools like OneDrive can be a basic backup
- iDrive and BackBlaze rate highly



Defenses: Cloud Services

- Cloud based services offer advanced security and backup capability
 - Office 365/Azure
 - G Suite

Defenses: General

- Be careful about information you share
- Sanitize old equipment
- Disable devices that can watch/listen while working
- Don't allow family to use work devices
- Keep work data on work devices only
- Use secure videoconferencing
- Shred work-related documents
- SETA (Security, Education, Training and Awareness
- CHOOSE PRIVACY!

Defenses:

- -Stop
- -Think
- -Protect Be a human firewall

- Ditch Android for iOS
 - iOS is more secure

- Transparency works

 Search for news, symbols or companies

 Search for news, symbols or companies

 Apple's News Personal Finance

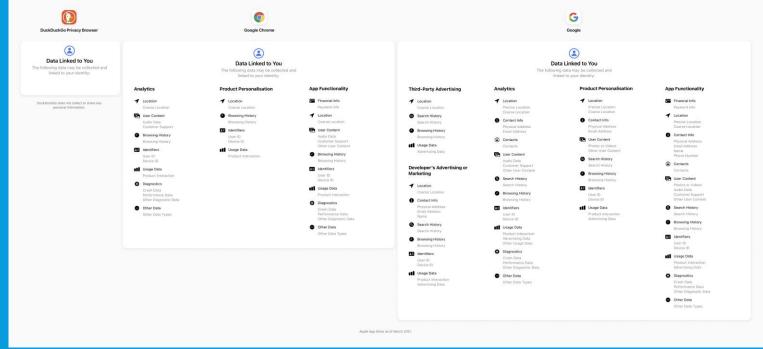
 Facebook hates Apple's new privacy

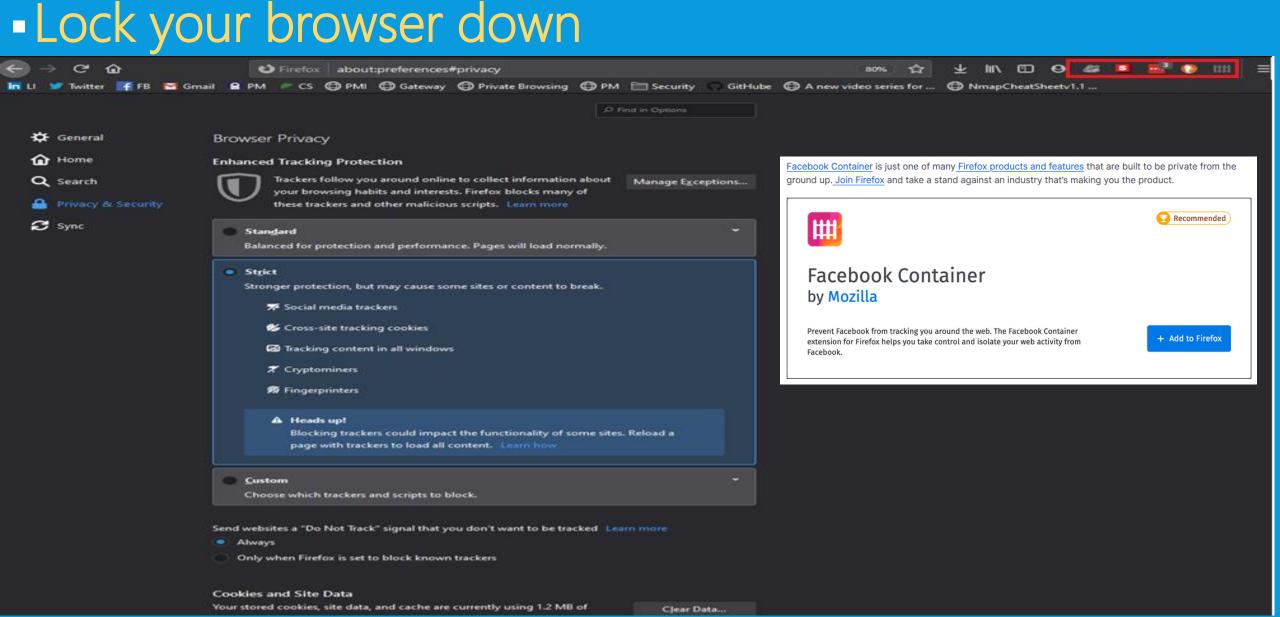
 feature here's how App Tracking

 Transparency works
- Apple is a product company, not a data company
- Apple has made privacy and security a priority
- Ditch any apps not absolutely essential
- Vet apps carefully
- Disable services you are not actively using
- Configure your device for privacy: https://spreadprivacy.com/device-privacy-protection/

- Ditch Chrome for a privacy friendly browser
 - Firefox https://www.mozilla.org/en-US/firefox/new/
 - Brave https://brave.com
 - Tor https://www.torproject.org/







- Ditch Gmail for privacy friendly email:
 - ProtonMail https://mail.protonmail.com
 - Tutanota https://tutanota.com/
 - Fastmail https://www.fastmail.com/



Data Not Linked to You

The following data may be collected but it is not linked to your identity:



Diagnostics



Data Linked to You

The following data may be collected and linked to your identity:



Purchases



Search History



Location



Identifiers



Contact Info



Usage Data



Contacts



Diagnostics



User Content



Other Data

- Ditch Google, use DuckDuckGo: http://www.duckduckgo.com
- Use a trusted VPN like NordVPN: https://nordvpn.com/
- Ditch Messenger & WhatsApp, Use Signal: https://www.signal.org/
- Ditch Dropbox, Use Sync: https://www.sync.com
- Ditch "smart" assistants
- Use sites like PCMag, CNET, ZDNet and/or Consumer Reports to vet apps

Tools

- AV: Windows Defender
- Browser: Firefox, Brave or Tor
- VPN: Nord
- Open DNS
- Encryption: BitLocker
- Password Manager: LastPass

Some privacy insights

- Why you should care about data privacy even if you have "nothing to hide" - https://www.vox.com/recode/22250897/facebook-dataprivacy-collection-algorithms-extremism
- A Case Against the Peeping Tom Theory of Privacy https://www.wired.com/story/against-peeping-tom-theory-of-privacy/
- "I have nothing to hide. Why should I care about my privacy?" https://medium.com/@FabioAEsteves/i-have-nothing-to-hide-whyshould-i-care-about-my-privacy-f488281b8f1d
- Senator Frank Church on the NSA https://www.theguardian.com/commentisfree/2013/jun/25/frankchurch-liberal-icon

Takeaways

- If you're not paying with money, you're paying with data. You're the product NOT the customer
- Your data is valuable, "they" want it
- New laws like CCPA may improve the situation
- You can make wise choices to limit your digital

footprint

Less is more

MIT Technology Review

Artificial intelligence / Machine learning

How to poison the data that Big Tech uses to surveil you

Algorithms are meaningless without good data. The public can exploit that to demand change.

by Karen Hao

March 5, 2021

Follow these folks

- Bruce Schneier:@schneierblog
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- MSRC: @msftsecresponse
- EFF: @EFF
- CDT: @CenDemTech
- PI: @privacyint

- MSRC: @msftsecresponse
- Microsoft Secure:@msftsecurity
- RSA: @RSAsecurity
- Mikko Hypponen: @mikko
- Troy Hunt: @troyhunt
- CSOnline: @CSOonline
- IAPP: @PrivacyPros
- Intrust IT: @IntrustIT
- Me: @DaveHatter

Additional Resources

- www.mcaffee.com
- www.grisoft.com
- www.symantec.com
- www.twofactorauth.org
- www.safer-networking.org
- www.zonealarm.com
- www.webopedia.com
- www.hackerwatch.org
- www.haveibeenpwned.com
- www.twofactorauth.org
- www.knowbe4.com
- www.antiphishing.org
- www.microsoft.com/security
- www.idtheftcenter.org/facts.shtml

- www.ftc.gov/bcp/conline/pubs/alerts/phishingalrt.htm
- www.ic3.gov/default.aspx
- enterprise.verizon.com/resources/reports/dbir/
- www.sans.org/critical-security-controls/
- https://www.us-cert.gov/ncas/current-activity/2019/11/06/cisalaunches-cyber-essentials-small-businesses-and-small-sltt
- www.nist.gov/cyberframework
- https://www.cisecurity.org/blog/cyber-hygiene-guidance-forwindows-10/
- www.ftc.gov/tips-advice/business-center/smallbusinesses/cybersecurity
- https://www.pcmag.com/roundup/256703/the-best-antivirusprotection
- https://www.pcmag.com/roundup/296955/the-best-vpn-services
- https://www.futureoftech.org/internet-of-things/6-careeropportunities-in-iot/

Q & A



"It's time for a cybersecurity zeitgeist in the West where cyber hygiene is a meme that is aggressively distributed by those who have mastered it and encouraged to be imitated by those who have experienced it." - James Scott

THANK YOU!

Dave Hatter

CISSP, CCSP, CSSLP, Security+, Network+, PMP, ITIL V3

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