



Cyber Security Presentation

Security / Privacy / Anonymity



Steven Hiltrop

Definitions

- Cyber **security** is about data protection from unauthorized modification, unauthorized access, and data corruption.
- **Privacy** is about restricting data being shared as minimal as possible.
- **Anonymity** is about staying as neutral as possible with no referral to identification.

Choose 2 of 3

While doing oppsec, you will be having to weight off options between these 3 pillars. A profile that fits your threat model is personal.

The importance of threat modeling.

We're moving towards a digital era where decisions are based on historic events which in theory should benefit us but in practice has turned out to be more of a tool for control and surveillance.



Australia's "Surveillance Legislation Amendment (Identify and Disrupt) Bill 2021"

- Data disruption warrants
- Network activity warrants
- Account takeover warrants

Five Eyes

The FVEY has been spying on one another's citizens and sharing the collected information with each other in order to circumvent restrictive domestic regulations on surveillance of citizens.

<https://parlinfo.aph.gov.au/parlInfo/search/display/display.w3p;page=0;query=BillId:r6623%20Recstruct:billhome>

<https://www.theguardian.com/world/2013/nov/20/us-uk-secret-deal-surveillance-personal-data>

<https://www.theguardian.com/world/2013/dec/02/revealed-australian-spy-agency-offered-to-share-data-about-ordinary-citizens>

<https://www.theguardian.com/politics/2013/jun/10/nsa-offers-intelligence-british-counterparts-blunkett>

<http://uk.reuters.com/article/uk-usa-security-britain-idUKBRE95K10620130621>

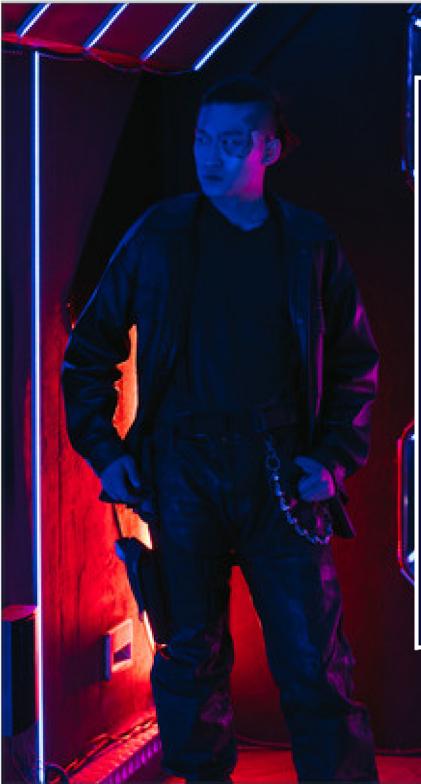


https://en.wikipedia.org/wiki/Formal_fallacy

<https://www.congress.gov/bill/118th-congress/senate-bill/1409>

<https://bills.parliament.uk/bills/3137>

<https://www.legifrance.gouv.fr/dossierlegislatif/JORFDOLE000047533100/>



Does Cyber Security Benefit the Individual or Nations

Cyber Security Presentation

Discuss the difference between open web, a proxy, a vpn or DNS over HTTPS/TLS.

Choosing your strategy

- Browser
 - Fingerprint
- Mail
 - Alias
- Password Manager
 - 2FA
- Storage
 - File encryption
- Text communication
 - Messenger
- ...

◆ Thoughts

- (de)centralized
- state(less)

◆ Identity

- Credit card
- Phone number
- Address
- Passport



network security

Why are you trying to read this.

Firewall

Always use an ap such as Lockdown in iOS to block unwanted traffic

Mobile phones, yay!

DNS

Use at minimum a good cloud provider such as Cloudflare.
Up your game with free services such as NextDNS, Quad9 or Adguard.

Adblockers



<https://apps.apple.com/us/app/lockdown-privacy-vpn-proxy/id1469783711>

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    <uses-feature android:name="android.hardware.location.network" android:required="false"/>
    <uses-feature android:name="android.hardware.LOCATION" android:required="false"/>
    <uses-permission android:name="com.google.android.c2dm.permission.RECEIVE"/>
    <uses-permission android:name="org.telegram.messenger.permission.MAPS_RECEIVE"/>
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    <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>
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    <uses-permission android:name="android.permission.READ_CALL_LOG"/>
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    <uses-permission android:name="android.permission.WRITE_CONTACTS"/>
    <uses-permission android:name="android.permission.MANAGE_ACCOUNTS"/>
    <uses-permission android:name="android.permission.READ_PROFILE"/>
    <uses-permission android:name="android.permission.WRITE_SYNC_SETTINGS"/>
    <uses-permission android:name="android.permission.AUTHENTICATE_ACCOUNTS"/>
    <uses-permission android:name="android.permission.VIBRATE"/>
    <uses-permission android:name="android.permission.SYSTEM_ALERT_WINDOW"/>
    <uses-permission android:name="android.permission.READ_PHONE_STATE"/>
    <uses-permission android:name="android.permission.RECEIVE_BOOT_COMPLETED"/>
    <uses-permission android:name="android.permission.USE_FINGERPRINT"/>
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    <uses-permission android:name="android.permission.CAMERA"/>
<uses-permission android:name="android.permission.BLUETOOTH"/>
```



Hosts file

Steven black is notorious for his unwanted ads collection



Host based firewall

Catching things coming in or out is key. Therefor setting up awesome apps like Little Snitch or Lulu can help you save some bandwith as well as protecting your computer from malware.



Appliances

Routers and cloud environments to help you defend your network after a long day or when travelling.



Some Cyber Security Things That You Should Know



Third parties

ISPS, VPN providers or anyone you pay for anonymity will work with intelligence agencies.



Security Network

Alternative providers such as Tor are funded by the intelligence agencies.

A yellow button

<https://github.com/StevenBlack/hosts>

<https://objective-see.org/products/lulu.html>

Some things to consider...

Mail providers
Protonmail, Tutanota

The whole idea of securing emails is broken due to the metadata that cannot be end-2-end encrypted.

Payment cards
ANZ, countdown, snapper

This data will be used in order to find patterns and capitalize from your daily routine.

Privacy Commissioner Te Mana Mātāpono Matatapu

About us Privacy Act 2020 Your rights Your responsibilities Resources Tools

AskUs Ask us a question

Do I have to complete the census?

The [Data and Statistics Act 2022](#) requires that everyone in New Zealand on census day must fill out a census form.

If you don't participate or if you provide false or incomplete information an individual person can be fined \$2,000 and organisations and agencies \$12,000 for agencies. For more information on penalties and fines, please review sections [76](#) and [77](#) of the Data and Statistics Act 2022.

Because participation in the census is required under the Statistics Act, this overrides the general requirements of the Privacy Act.

If you have questions about the census or your obligations on census day, you should get in touch with [Statistics New Zealand](#), as it is the agency responsible for carrying out the census.

<https://www.privacyguides.org/basics/email-security/#email-metadata-overview>

<https://delta.chat/>

<https://www.legislation.govt.nz/act/public/2022/0039/latest/LMS418574.html>

Thank You For Attention



Steven Hiltrop