










Workshop: Digital Privacy and your Mobile Phone

Introduction to Privacy with Technology

These days we all know that big tech platforms track and record large amounts of data about you. But did you know they do this:-

-  Your location.
-  What websites you visit.
-  Who you call and how long you talk to them
-  How you use apps, games and browsers.
-  Who you email and message, and the content.
-  What you share via social media, email, SMS.
-  What you search for.
-  What you watch on your smart TV.
-  Listen to what you say when near the devices.

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Why do we need digital privacy?

- Is tracking a potential problem?
- Are devices that listen to us so bad?
- How does big tech build profiles on folks?
- How does big tech sell the tracking "features" to us?
- Most digital communications can be monitored by big tech and governments.
- Most cloud providers can view all files and messages on their platforms.
- Power structures are now labelling Christian values as domestic terrorists.
- The Community Safety Act 2024 passed the Qld parliament recently.

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What does digital privacy look like?

- What level of privacy do you need? (Threat model)
- Remove location tracking. GPS, Wifi, Bluetooth, Mobile data.
- Disable device listening.
- Block the big tech monitoring of web browsing activity.
- Encrypted communications - email, messenger, voice, cloud.
- Exchange some form of value between folks.

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What info does Google and big tech collect?

Web Browsing

- Google analytics.
- Google tag manager
- Microsoft azure
- Cookies

Mobile Devices

- Bluetooth
- Wifi
- Location
- Interests (Listening)
- Clipboard

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Can you maximise privacy on big tech supplied devices?

- Microsoft Windows?
- Apple MacOS and iOS?
- Google Android?
- Smart devices - e.g. TVs, fridge, etc

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What can be done to mobile devices and computers?

- Replace Apple or Microsoft apps with FOSS.
- Replace MacOS and Windows with Linux.
 - Ubuntu, Linux Mint, Fedora
- De-google phones and tablets.
- Disable some features of Apple products.

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How is a phone de-googled?

- Remove all Google apps from phone – OR
- Wipe phone clean then install a new OS
- GrapheneOS (<https://grapheneos.org/install/>)
- CalyxOS (<https://calyxos.org/install/>)
- DivestOS (<https://divestos.org/pages/devices>)
- LineageOS (<https://wiki.lineageos.org/devices/>)
- e/OS/ (<https://e.foundation/get-e-os/>)

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How will digital privacy impact your use of digital devices?

- Loss of some convenience.
 - Google Home, Alexa, similar appliances.
 - Assistants (Google, Siri, CoPilot).
 - Stop using Gmail etc (Proton mail not bad).
- Inability to use certain apps/programs.
- Awareness of encryption status and encouraging others to follow suit.

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Make Android and Apple phones as private as possible

Main targets:
Location, Camera, Microphone, Photos, Clipboard

Easily switching radios on or off

Android

- Quick access panel
- Drag down from screen top
- Buttons for Internet or WiFi, Mobile Data, and Bluetooth

iPhone

- Shortcuts app → home screen
- My Shortcuts – plus to add new
- Add Action – Set Wi-Fi – set off
- Same for Bluetooth & Cellular Data
- Name it – Menu – Add to Home Screen

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Android

Go to: **Settings > Security & Privacy > Privacy**

- Location: No "Allowed all the time"
- Permissions manager – check most of these – use "while using app" or "Ask every time" – some may be "not allowed"
- Show clipboard access – On (keyboard has clipboard icon)
- Some phones have customisation services... switch off
- Personalised experiencing
- Usage & diagnostics
- Install unknown apps (f-droid, aurora store, signal, telegram OK)

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iPhone

Go to: **Settings > Privacy (& Security)**

- Location Services
 - look through apps & change any that say "Always"
 - Any apps you don't want to access location set to "never"
 - "System Services" - you can turn most of these off
 - Each app can have "Precise Location". Only switch on for essentials.

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Workshop: Digital Privacy and your Mobile Phone

- Photos, Camera, & Contacts
 - look through apps & change any that say "Always"
 - Any app listed you don't think should access any of these switch to "never"
- Analytics & Improvements turn all these off
- Tracking (from iOS 14.5)
 - turn off "Allow Apps To Request To Track"
- Apple Advertising
 - switch off "Personalized Ads"
- App Privacy Report (from iOS 15.2)
 - Displays which apps are accessing your personal data
- Settings > Mail > Privacy Protection (from iOS 15)
 - Turn on "Protect Mail Activity"

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How Firewalls and VPNs can help.

- Is a firewall really necessary?
- How does a firewall help?
- What is a virtual private network (VPN)?
- How does a VPN help?

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Does two factor authentication (2FA) protect or harm you?

- What is OOB (out-of-band)?
- Why is Google moving to ONLY the Google app for 2FA?
- What is TOTP (Time-based One-Time Password)?

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What impact does AI have on your privacy?

- AI client software on your device
 - Windows Copilot+
 - Google Gemini
 - Apple Intelligence
- What can be done to limit or eliminate that threat?
 - Don't update your Google, Apple, & Microsoft OSes
 - Switch to Google free phone and Linux computer OS

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Other workshops

- Open source privacy friendly apps to replace big tech spyware
- De-google your Android mobile phone
- Introduction to Linux
- How to transition from Windows to Linux

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Privacy appliance prototype

- Network file server
- Remote access via VPN
- Private cloud
- Website
- Caching proxy server
- Email archive
- Multimedia server



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