Building the private, secure, and unblockable app store



free software swat team for privacy

people behave differently when being watched



Who is listening to what?







we put privacy first



privacy through user experience



* we get paid to address high risk use cases, and spin out tools and knowledge to raise the bar for all

modern design with privacy is possible







apps with transparent Tor support

- * encrypted local storage
- * hardened network encryption
- * end-to-end encrypted messaging

ACTIVISTS & CITIZEN JOURNALISTS

Tech savvy citizen journalists and activists in the street use Guardian apps to share updates, photos and videos without interception or monitoring by the authorities. Reporters in the field can use Guardian apps to stay in touch with their safety networks, while safeguarding information on contacts, story notes and captured digital media, enabling a new, secure "reporter's notepad". In addition, high-resolution cameras of new Android hardware meet the quality standards for broadcast, print and online production.

FRONTLINE REPORTERS

Business people travel all over the world, using foreign networks, bandwidth and systems. At any point, confidential information can be compromised. While some organizations implement solutions, these are often expensive, difficult to use, and not comprehensive

BUSINESS

HUMAN RIGHTS DEFENDERS

An undercover human rights researcher traveling through a remote region without mobile data service is able to use Guardian to document local conditions using secured video, audio and photo capture. Data is stored encrypted on the device, and if necessary, it can be safely and quickly erased.



PARTNERSHIPS

We believe in protocols, not products / in partnerships, not proprietary fiefdoms / in building a community of collaborators, not a cacophony of criticism and unnecessary competition / in practical solutions to perilous problems.



F-Droid

an community run Android app store that distributes verified Free Software



on the forefront of security community run

F-Droid has solid security

- only HTTPS connections
- pinned TLS certificate
- signed metadata (e.g. Debian apt model)
- offline signing machines
- Android APK signatures secure updates

trust requires difficult decisions



make computers verify to make trust decisions easier

what most app stores know

- your login/account
- everything you search for in the app store
- everything you look at in the app store
- everything you download, install, uninstall
- which apps you launch and use
- where you are
- your preferred language
- and more...

What must app stores know?

how to give you the files you request

how to give you the files you request

- app indexes
- app descriptions and icons
- the app itself
- the client does the rest

no logins, user names, analytics solid transport security Tor and other proxy support

most app stores have terrible security



there are many around the world do not even use HTTPS FBI vs. Apple companies are fighting hard so they don't need to comply

prevents targeted attacks



when users cannot be targeted, malware is visible to all public auditing then becomes feasible

garbage in means garbage out

if your app includes malware, your reputation will be destroyed devs do not have good security practice Google recommendations are bad (signing key on regular dev machine) XCodeGhost

reproducible builds!



large scale exploits like XCodeGhost

now it is secure

- targeted attacks very difficult, even if fdroid.org fully collaborates
- anyone can verify the builds using F-Droid verification server or other methods
- software publicly audited by Cure53
- you do not need to use f-droid.org

chain of trust from source code to your phone



now you only have to trust the original author

getting apps, no matter what



Tor auto-mirror failover swap



swap apps:



Tor auto-mirror failover swap

coming soon!

- all prototyped, now we are polishing it up
- media handling (audio, video, e-books, etc.)
- "collateral freedom" support (github, S3)
- app store "curation" tools



GUARDIAN PROJECT https://guardianproject.info

Hans-Christoph Steiner hans@guardianproject.info

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F-Droid can help you

- resist malware that targets developers, for apps that you distribute in any app store
- avoid large scale exploits like XCodeGhost
- secure your app release builds
- distribute your apps privately

the developer tools improve security no matter which app store you distribute with

make your own app store!







make your own app store!

- regional app stores like CafeBazaar, Baidu
- custom enterprise solutions

funded by

