



Platforms /




Windows

Warning: Microsoft Windows is affected by PRISM. Even using the software tools we recommend here, your privacy may be compromised by Windows. The operating system of any device can unfortunately lever out any privacy protection that a program tries to offer you. The latter has to run in the confines of the OS after all. We strongly recommend replacing Windows with either [Linux](#) or [BSD](#).



Anonymizing Networks

Prefer	✓
 I2P The invisible internet project.	↗
 Tor Free software for enabling online anonymity. Tor directs Internet traffic through a free, worldwide, vo...	↗

Bookmark Sync

Prefer	✓
 wallabag wallabag is a self hostable application for saving web pages. Unlike other services, wallabag is free...	↗
Avoid	✗
 I Instapaper	
 Pocket	

Collaboration

Prefer	✓
 Cryptpad Real-time collaborative docs, polls, todos. Web Service	↗
 Loomio Web application that helps groups of people to make decisions together. Web Service	

DNS

Prefer



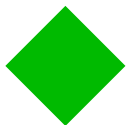
dnscrypt-proxy

Encrypted DNS proxy.



Namecoin

Distributed DNS for .bit TLD.



nsupdate.info

Dynamic DNS service.

Web Service



Avoid



Google Public DNS



OpenDNS

Email

Prefer



Kolab Now

Kolab accounts hosted in Switzerland.

Web Service



Riseup

Secure communication tools for people working on liberatory social change.

Web Service



Thunderbird

Extensible, cross-platform email client.



Notes






For more email providers, take a look at [Privacy-Conscious Email Services](#). Please decide for yourself whether if you trust them with your data. For more discussion about safe email providers, please see [issue #461](#).

MyKolab is hosted in Switzerland and benefits from the [strong Swiss privacy laws](#). It is run exclusively with free software and using the service supports the development of **Kolab**. Also, it lets you export all your data at any time.







Riseup's services may also be accessed via their [Tor Hidden Service](#) addresses. A list is [available here](#).

Why not Hushmail? See ['compromises to email privacy'](#).

If you have the technical aptitude, consider running your own mail server.

Avoid		×
	Gmail	
	GroupWise	
	Microsoft Outlook	
	Yahoo Mail	
	Yandex.Mail	

Email Addons

Prefer		✓
	Enigmail OpenPGP add-on for Thunderbird.	
	Mailvelope OpenPGP browser add-on for webmail.	
	TorBirdy Tor add-on for Thunderbird.	

Notes

“Pretty Good Privacy (PGP) is a data encryption and decryption computer program that provides cryptographic privacy and authentication for data communication. PGP is often used for signing, encrypting and decrypting texts, e-mails, files, directories and whole disk partitions to increase the security of e-mail communications.”
















— [Wikipedia](#)

PRISM Break does not recommended S/MIME email encryption because of its reliance on third-party certificates from central authorities. Read more [here](#).

OpenKeychain together with **K-9 Mail** provides end-to-end email encryption. An experimental project is [GnuPG for Android](#) by the Guardian Project.

Read the [Email Self-Defense](#) guide by the Free Software Foundation to learn how to encrypt your email messages.

Enterprise Suite

Prefer		✓
	Nextcloud A safe home for all your data	
	Sandstorm Sandboxed platform for self-hosting web apps. Web Service	
Notes		
The enterprise suite category is for solutions for organizations that cover more than 10 categories in an integrated fashion (ex.: logins work throughout all apps, etc.)		
Avoid		✕
	G Suite	
	Office 365	
	Zoho Office Suite	
File Sharing		
Prefer		✓
	OnionShare Anonymous file transfer via Tor.	
	Up1 Client-side encrypted image host web server.	
File Storage & Sync		
Prefer		✓
	Cryptomator Client-side encryption for cloud storage.	
	EteSync Journaled calendar and contacts sync. Web Service	
git-annex Git-driven file management and version control.		

<div data-bbox="98 78 223 116"></div> <div data-bbox="242 143 367 250"></div> <div data-bbox="391 141 869 257"> <p>Gridsync</p> <p>User-friendly sync with Tahoe-LAFS grids.</p> <p>Experimental</p> </div>	
<div data-bbox="98 313 223 432"></div> <div data-bbox="242 318 691 434"> <p>Least Authority S4</p> <p>Unlimited S3-backed Tahoe-LAFS grid.</p> <p>Web Service Experimental</p> </div>	
<div data-bbox="98 488 223 607"></div> <div data-bbox="242 492 572 609"> <p>Sia</p> <p>Decentralized cloud storage.</p> <p>Experimental</p> </div>	
<div data-bbox="98 663 223 781"></div> <div data-bbox="242 667 619 745"> <p>Syncthing</p> <p>Direct file sync between devices.</p> </div>	

Notes

This section has been carefully curated to only include software that encrypts data on the client. That means your data should be secure even if servers it's stored on are compromised.

Avoid	
<div data-bbox="98 1048 167 1099"></div> <div data-bbox="188 1055 312 1093">Dropbox</div>	
<div data-bbox="98 1135 167 1187"></div> <div data-bbox="188 1142 376 1180">Google Drive</div>	
<div data-bbox="98 1223 167 1274"></div> <div data-bbox="188 1229 280 1267">iCloud</div>	
<div data-bbox="98 1310 167 1361"></div> <div data-bbox="188 1317 464 1355">Microsoft OneDrive</div>	
<div data-bbox="98 1397 167 1449"></div> <div data-bbox="188 1404 368 1442">Yandex.Disk</div>	

Finance

Prefer	
<div data-bbox="98 1686 223 1805"></div> <div data-bbox="242 1691 616 1771"> <p>Bisq</p> <p>Decentralized Bitcoin exchange.</p> </div>	
<div data-bbox="98 1861 223 1980"></div> <div data-bbox="242 1865 676 1948"> <p>Monero</p> <p>Fungible, untraceable cryptocurrency.</p> </div>	
Avoid	
<div data-bbox="98 2076 167 2128"></div> <div data-bbox="188 2083 293 2121">PayPal</div>	

Instant Messaging

Prefer



Psi

Cross-platform XMPP client.



RetroShare

Peer-to-peer communication and file sharing app.



Signal

Metadata-resistant, user-friendly messenger with audio/video calls (mobile only).



Avoid



Discord



Facebook Messenger



Google Hangouts



ICQ



LINE



Skype



Snapchat



Tencent QQ



Trillian



Viber Messenger



WeChat

Media Publishing

Prefer

















PageKite

Localhost tunneling service.






Web Service



	PeerTube Federated video hosting. Web Service Experimental	
	PixelFed Federated image sharing. Web Service Experimental	
	WriteFreely Federated blog platform. Web Service Experimental	
Avoid		

	Flickr
	Imgur
	Instagram
	Medium
	Tumblr
	Vimeo
	YouTube

Mesh Networks

Prefer		
	Cjdns A networking protocol, a system of digital rules for message exchange between computers. "Instea..."	
	tinc Free software daemon that uses tunnelling and encryption to create a secure private network	



Notes

A mesh network is a decentralized peer-to-peer network, with user-controlled physical links that are usually wireless.




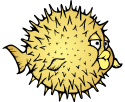

"Mesh networking (topology) is a type of networking where each node must not only capture and disseminate its own data, but also serve as a relay for other nodes, that is, it must collaborate to propagate the data in the network."

— [Wikipedia](#)

News

Prefer	✓
 Tiny Tiny RSS RSS feed reader. Web Service	↗
Avoid	✗
 Google News	

Operating Systems

Prefer	✓
 Debian Popular ethical GNU/Linux distribution.	↗
 Fedora Fast, stable and powerful GNU/Linux distribution.	↗
 FreeBSD A free BSD-derived operating system.	↗
 OpenBSD A secure BSD operating system.	↗
 Qubes Fedora/Xen-based OS designed to provide strong security through isolation.	↗

Notes

Apple, Google, and Microsoft are allegedly a part of PRISM. Their proprietary operating systems cannot be trusted to safeguard your personal information from the NSA. We have two free alternatives: **GNU/Linux** and **BSD**.


GNU/Linux has a much larger community to help you with the transition. It's recommended that you begin your explorations by looking for a [GNU/Linux distribution](#) that suits your needs. Additionally the [Free Software Foundation hosts a list of completely Free distributions](#).

Debian has a long tradition of software freedom. Contributors have to sign a social contract and adhere to the ethical manifesto. Strict inclusion guidelines make sure that only certified open source software gets packaged in the main repositories.



Fedora is a community edition that serve as the stable basis for enterprise ready GNU/Linux distributions with commercial support. Companies all over the world trust Red Hat Inc. because of their transparency

throughout the whole development process.

Canonical's Ubuntu is not recommended by PRISM Break because it contains [Amazon ads and data leaks](#) by default. GNU/Linux distributions based on Ubuntu are also currently not recommended due to [several other reasons](#).

Avoid	✕
 Windows	

Operating Systems (Live)





Prefer	✓
 Tails Live OS aimed at preserving your privacy and anonymity.	↗
 Whonix VM-friendly OS based on Debian and Tor focused on anonymity, privacy and security.	↗

Notes

A live distribution like **Tails** is the fastest and easiest way to a secure operating system. All you have to do is create a bootable CD or USB drive with the files provided and you're set. Everything else will be preconfigured for you.

A virtual machine (VM) image like **Whonix** is designed to be run inside of a virtualization package like [VirtualBox](#). VirtualBox can be installed on Windows, Linux, macOS, and Solaris. This means that if you're stuck using Windows or macOS for whatever reason, you can install VirtualBox and use Whonix to increase your privacy and security.

Password Managers

Prefer	✓
 KeePassXC KeePass manager for desktop.	↗
Avoid	✕
 1Password	
 LastPass	
 Roboform	

Productivity **Prefer**



EtherCalc

Multi-user spreadsheet server.

Web Service



Riseup

Secure communication tools for people working on liberatory social change.

Web Service



Notes

Riseup also offers email, XMPP, chat and data hosting (via Up1) services, all of which are accessible through [Tor Hidden Service](#) addresses. The list of these addresses is [available here](#).

Avoid



Doodle



Evernote



Google Docs



GroupWise



Microsoft Outlook



Zoho Docs

Social Networks

Prefer



diaspora*

Community-run, distributed social network.

Web Service



Hubzilla

Platform for creating interconnected websites.

Web Service



Mastodon

Federated microblogging social network.

Web Service



Movim

Private, decentralized social network server.

Web Service





RetroShare

Peer-to-peer communication and file sharing app.



Notes

If you have system administration knowledge, please strongly consider running an instance of **pump.io** (or something else) for your friends, family, or favorite community. Many of them would be willing and grateful to escape Facebook if you provide them a way out.

For those of you without your own server, **RetroShare** is the easiest way to start your own encrypted social network.

Avoid



Facebook



LinkedIn



Snapchat



Twitter

Video & Voice

Prefer



Jami

Decentralized audio/video call app.

Experimental



Mumble

Low-latency multi-user voice chat.



Signal

Metadata-resistant, user-friendly messenger with audio/video calls (mobile only).



Avoid



Discord



Facebook



Skype



TeamSpeak



Ventrilo

VPN

Prefer



Mullvad

No-log WireGuard VPN provider.
Web Service



Riseup

Secure communication tools for people working on liberatory social change.
Web Service



Avoid



Cisco VPN



Hola!

Web Browser Addons

Prefer



Decentraleyes

Protects you against tracking through “free”, centralized, content delivery. It prevents a lot of reques...



HTTPS Everywhere

Encrypts your communications from thousands of websites by enforcing HTTPS everywhere.



Mailvelope

OpenPGP browser add-on for webmail.



Multi-Account Containers

Manual identity isolation for Firefox.



NoScript

Only enable JavaScript, Java, and Flash for sites you trust.



Privacy Badger

Tracking blocker that tries to learn who is spying on you and then blocks these ads and invisible tra...



Temporary Containers

Per-tab identity isolation for Firefox.



uBlock Origin

An efficient blocker for Firefox and Chromium. Fast and lean.



Notes

Installing your own add-ons into Tor Browser is not recommended, as they may bypass Tor or otherwise harm your anonymity and privacy. Check the EFF's [Panopticklick](#) to see how trackable your browser configuration is by third parties.

If you're using a Firefox-based browser, you can safeguard your browsing habits and stop advertising companies from tracking you by installing **uBlock Origin**, **Request Policy**, and **HTTPS Everywhere**.

A more advanced alternative to **Request Policy** would be [uMatrix](#).

Install **NoScript** and enable 'Forbid scripts globally' to improve the security of your browser by preventing Oday JavaScript attacks. This is a drastic option as it will render many websites unusable as they rely heavily on JavaScript. NoScript offers a whitelist you can use to selectively enable JavaScript for sites you trust, but this is considered [especially bad for your anonymity](#) if you're using NoScript with **Tor Browser**.

Why is Adblock Plus not recommended? Adblock Plus shows "acceptable ads" by default, which works against the purpose of the add-on. Either disable acceptable ads or use **uBlock Origin** instead.

Avoid



Ghostery

Web Browsers

Prefer



Firefox

Fast, flexible and secure web browser with a vibrant add-on ecosystem.



Tor Browser

Encrypted, anonymous web browsing powered by the Tor network.



Notes





Try to use **Tor Browser** for all of your web surfing. It will offer you far better anonymity than any other browser. Make sure to [learn the basics of Tor](#) before using it. If the site you want to visit will not work in Tor Browser, try Firefox instead, but realize these browsers do not anonymize your ip by default.

Tor Browser notes: Using Tor Browser to sign into websites that contain your real ID is counterproductive, and may trip the site's fraud protection. Make sure to check for HTTPS before signing in to a website through Tor. Signing into HTTP websites can result in your ID being captured by a Tor exit node.





Firefox notes: This browser uses Google search by default: replace it with a more [private alternative](#).

Why are Chromium, SRWare Iron, et al. not recommended on PRISM Break? [More info here](#).

Warning for mobile devices & Tor: Websites using HTML5 <video> tags will leak <video>-related DNS queries and data transfer outside of Tor.

Avoid		✕
	Google Chrome	
	Microsoft Edge	
	Opera	
	Yandex.Browser	

Web Search

Prefer		✓
	DuckDuckGo Independent no-tracking search engine. <small>Non-free Web Service</small>	
	Searx Metasearch engine. <small>Web Service</small>	





Notes

DuckDuckGo is a software-as-a-service (SaaS) hosted around the world that provides you with anonymous search results from [these sources](#). DDG open source components are [available here](#).


There is also a **DuckDuckGo** hidden service at 3g2upl4pq6kufc4m.onion for Tor users.

MetaGer is a SaaS by the German non-profit [SUMA e.V.](#) that provides you with anonymous meta search results.

Startpage is a SaaS hosted in the USA and the Netherlands that provides you with anonymous Google search and image results through a free proxy.

Avoid		✕
	Google Search	
	Microsoft Bing	
	Yahoo Search	
	Yandex	

World Maps

Prefer		✓
	OpenStreetMap Free, collaborative world wide map.	



Notes

“If you spend time contributing to OpenStreetMap you are helping a good cause, and building a geographic database of the world which is free and open for all and forever.”

— [OpenStreetMap Wiki](#)

Avoid



Bing Maps



Google Earth



Google Maps

العربية	Català	Deutsch	ελληνικά
Esperanto	English	Español	فارسی
Suomi	Français	עברית	हिन्दी
Ido	Italiano	日本語	Nederlands
Norsk	Polski	Português	Русский
srpski	српски	Svenska	Türkçe
简体中文	繁體中文		