

Firefox security and privacy add-ons and plugins

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Introduction

The goal of the internship was to investigate and test Firefox browser security and privacy functions. The analysis maps integrated features and additional external extensions (available at the time of the analysis - 2020).

Some of the extensions are being integrated into a future Firefox version (so the extension itself becomes deprecated). The tables below lists security and privacy function extensions considered for later analysis during the internship. The notes are based only on preliminary assessment and personal notes based on public information from web pages and extension authors.

List of security and privacy tools

Name	Category	Link	Source Code	Commercial Description (what we can find about them quickly on the web)	Does Firefox also provide the same features ?
Firefox Multi-Account Containers	Containers/ Sandboxes	Link	Yes	Firefox Multi-Account Containers lets you keep parts of your online life separated into color-coded tabs that preserve your privacy. Cookies are separated by container, allowing you to use the web with multiple identities or accounts simultaneously. This is a great extension for people on shared computers or who have multiple accounts for services like Google or Amazon.	No Mozilla provides the Add-On. It will perhaps be added in Firefox itself soon.

Facebook Container	Containers/S andboxes	Link	Yes	<p>Prevent Facebook from tracking you around the web. The Facebook Container extension for Firefox helps you take control and isolate your web activity from Facebook.</p> <p>This extension helps you control more of your web activity from Facebook by isolating your identity into a separate container. This makes it harder for Facebook to track your activity on other websites via third-party cookies and lets you keep using a service you enjoy.</p>	<p>No</p> <p>Mozilla provides the Add-On. It will perhaps be added in Firefox itself soon.</p>
Bloody Vikings!	Random Email Generators	Link	No	<p>Simplifies the use of temporary e-mail addresses in order to protect your real address from spam. Supports inter alia 10minutemail.com and anonbox.net.</p> <p>Instead of exposing your real email address to every random site asking for it, simply right-click on the designated input field and select "Bloody Vikings!". Bloody Vikings! automatically inserts a temporary email address and opens the corresponding mailbox in a new background tab.</p>	<p>No</p>
Cookie AutoDelete	Cookies Cleaners	Link	Yes	<p>Control your cookies! This WebExtension is inspired by Self Destructing Cookies. When a tab closes, any cookies not being used are automatically deleted. Whitelist the ones you trust while deleting the rest. Support for Container Tabs.</p>	<p>Partially Implemented In Firefox. Firefox allows to delete cookies. It also allows to automatically cookies when the program is closed (not for a tab)</p>

Decentraleyes	Local CDNs	Link	Yes	Protects you against tracking through "free", centralized, content delivery. It prevents a lot of requests from reaching networks like Google Hosted Libraries, and serves local files to keep sites from breaking. Complements regular content blockers. Many websites rely on large third-parties for content delivery. Canceling requests for ads or trackers is usually drama-free, but sometimes ad blockers and tracking protectors break pages. Decentraleyes works around this by providing lightning speed delivery of local (bundled) files to improve online privacy.	No However, I imagine that Firefox store in cache some content. Hence Firefox do not need to ask a CDN each time the content is needed.
Disconnect	Tracking/ Privacy Protection	Link	Yes	Make the web faster, more private, and more secure. Disconnect lets you visualize and block the otherwise invisible websites that track your search and browsing history.	?
Disconnect for Facebook	Tracking/ Privacy Protection	Link	Yes	Facebook Disconnect is an efficient firewall to disconnect third-party websites from accessing to your Facebook. This is WebExtension implementation of Facebook Disconnect add-on Disconnect for Facebook prevents Facebook from tracking the webpages you go to by blocking Facebook related requests sent from third-party websites. Facebook Disconnect blocks traffic from third-party sites to Facebook servers but still you can visit and use your Facebook account without issues.	Yes Enhanced Tracking Protection should do the same.

<p>DuckDuckGo Privacy Essentials Article</p>	<p>Privacy based Search Engines Tracking/ Privacy Protection New TLS Version Enforcer Policy Privacy (GDPR) Decoders</p>	<p>Link</p>	<p>Yes</p>	<p>Privacy, simplified. Our add-on provides the privacy essentials you need to seamlessly take control of your personal information, no matter where the internet takes you: tracker blocking, smarter encryption, DuckDuckGo private search, and more. This extension provides the privacy essentials you need to take control of your personal information, no matter where the internet takes you: tracker blocking, smarter encryption, DuckDuckGo private search, and more.</p>	<p>Partially Implemented In Firefox. Enhanced Tracking Protection should also block third party trackers.</p>
<p>History Cleaner</p>	<p>History Cleaners</p>	<p>Link</p>	<p>Yes</p>	<p>Deletes browsing history older than a specified number of days. This extension lets you set the number of days you want to keep your history for and then deletes it.</p>	<p>Partially Implemented In Firefox. It is possible to clean manually the history, or to configure firefox in order to clean history automatically when Firefox is closed.</p>
<p>Link Cleaner</p>	<p>Tracking Parameters Link Cleaners</p>	<p>Link</p>	<p>Yes</p>	<p>Clean URLs that are about to be visited: - removes utm_* parameters - on item pages of aliexpress and amazon, removes tracking parameters - skip redirect pages of facebook, steam and reddit Hate it when you copy a URL to share and get a long string of characters? Link Cleaner lets you easily strip tracking parameters, giving you clean and simple links to share.</p>	<p>?</p> <p>Perhaps that Enhance Tracing Protection does the same thing...</p>

Privacy Badger	Header Do Not Track (DNT) Flag	Link	Yes	<p>Automatically learns to block invisible trackers. Privacy Badger automatically learns to block invisible trackers. Instead of keeping lists of what to block, Privacy Badger learns by watching which domains appear to be tracking you as you browse the Web. If trackers ignore your wishes to not be tracked (aka you have Do Not Track enabled), your Badger will learn to block them. Besides automatic tracker blocking, Privacy Badger also removes outgoing link click tracking on Facebook and Twitter.</p>	<p>Partially Implemented In Firefox Enhanced Tracking Protection also blocks tracking websites, it also send the DNT flag (in about:preferences), BUT Firefox does not use this technique to block invisible trackers.</p>
Privacy Possum	Fingerprints Header Tracking Parameters Cookies Cache History Cleaners	Link	Yes	<p>Privacy Possum monkey wrenches common commercial tracking methods by reducing and falsifying the data gathered by tracking companies. Privacy marsupials are here to help you manage your data. Or to help you mess up the data collected by third-party-trackers. Privacy Possum disrupts common commercial tracking methods by reducing and falsifying the data gathered by tracking companies.</p>	<p>Yes Enhanced Tracking Protection should do the same.</p>

Smart HTTPS	HTTP to HTTPS	Link	Yes	<p>This extension automatically changes HTTP web addresses to the secure HTTPS, whenever possible. HTTP is the way a server communicates with the browser. HTTP enables visitors to view a website and send information back and forth to the server. HTTPS is communication through a secured connection. Communications through an HTTPS with the server are encrypted by a secure certificate known as an SSL. The encryption prevents third-parties from eavesdropping on communications to and from the server. Smart HTTPS automatically changes HTTP protocol to the secure HTTPS when it is available. If it encounters error while loading a site in HTTPS it will revert it back to the HTTP so your browsing experience is seamless.</p>	<p>No Firefox does what the user want. If a link is http:// written, then Firefox will connect to the website using HTTP.</p>
Private Bookmarks	Secure Bookmarks	Link	Yes	<p>Enables a password-protected bookmark folder.</p>	<p>No Firefox allows different bookmarks according to the account, it allows to save bookmark, but not this kind of features.</p>
Ghostery - Privacy Ad Blocker	Ads Blockers Tracking/Privacy Protection	Link	Yes	<p>Ghostery is a powerful privacy extension. Block ads, stop trackers and speed up websites.</p>	<p>No There is not Ads Blocker integrated in Firefox. About the Privacy Features, it is Partially Implemented In Firefox thanks to the Enhanced Tracking Protection</p>

Forget Me Not - Forget cookies & other data	Cleaners	Link	Yes	Make the browser forget website data (like cookies, local storage, etc.), except for the data you want to keep by adding domains to a whitelist, graylist, blacklist, or redlist.	Partially Implemented In Firefox. Indeed, it is possible to configure the browser to automatically clean these data, but only when the browser restart.
Privacy Settings	Easy Privacy Settings Managers	Link	Yes	Alter Firefox's built-in privacy settings easily with a toolbar panel.	Partially Implement In Firefox Browser. The aim of this add-ons is to give a quick access to Browser settings available in "about:config".
Privacy Pass	Very strange extension which allows to bypass CAPTCHA ?	Link	Yes	Handles passes containing cryptographically blinded tokens for bypassing challenge pages.	No Not really a security and privacy feature.
Blur	Passwords Managers Temporary Virtual Cards and Secure Payments Tracking/Privacy Protection	Link	No	Protect your Passwords, Payments, and Privacy.	Partially Implement In Firefox Browser No Temporary Credit Card for online Payment
Startpage - Private Search Engine	Privacy-based Search Engines	Link	xpi only	This search engine extension protects users from being tracked while allowing them to search the web in complete privacy.	No Firefox does not provide StartPage as Search Engine.
Open in Tor Browser	TOR Solutions	Link	Perhaps	Open current page or link in tor browser for better privacy	No

Pay by Privacy.com	Temporary Virtual Cards and Secure Payments	Link	No	Privacy.com's Firefox add-on allows you to generate a new virtual card number with 1-click on any checkout page. Keep your payment info safe from data breaches, shady merchants, and sneaky subscription billing.	No
ExpressVPN: VPN proxy to unblock everything	VPN/Proxies	Link	Yes	Privacy, security, and speed. Control the ExpressVPN app directly from Firefox, spoof your location, and access content anywhere.	WebRTC Blocker : Yes HTTPS Everywhere : No VPN service : No
Avira Browser Safety	Websites Blockers Secure Downloads Tracking/Privacy Protection	Link	No	Avira Browser Safety helps identify internet addresses that are harmful to your system when you are browsing the web and protects your privacy by preventing invisible trackers.	No
PureVPN: VPN Proxy to Unblock Internet Privately	VPN/Proxies	Link	No	Get ultimate security and privacy when connected to PureVPN's proxy extension. With the VPN proxy for Firefox, you can easily unblock any website with ease.	No
Temporary Containers	Containers/S andboxes	Link	Yes	Open tabs, websites, and links in automatically managed disposable containers. Containers isolate data websites store (cookies, storage, and more) from each other, enhancing your privacy and security while you browse.	No But it is the same than "Multi Account Container" plugin.

Cookie Manager	Cookies Cache History Proxy Managers	Link	Yes	An efficient cookie manager. View, edit, delete and search for cookies. Supports private mode and Firefox mobile too. Designed for privacy and security aware users. Enable this extension to open the cookie manager, disable it if you are done.	Partially Implement In Firefox It is possible to view all cookies in about:preferences and to manage them. However it is not really as advanced as this extension
Google search link fix	Tracking Parameters Link Cleaners	Link	Yes	This extension prevents Google and Yandex search pages from modifying search result links when you click them. This is useful when copying links but it also helps privacy by preventing the search engines from recording your clicks.	No
Private Internet Access	VPN/Proxies	Link	Yes	Defeat censorship, unblock any website and access the open Internet the way it was meant to be with Private Internet Access®	WebRTC blocking : Yes Website URL whitelist : Partially Implemented In Firefox (Safe browsing) VPN service : No
Private Video Downloader		Link	xpi only	Download videos from web sites and avoid compromising entries in your browser history.	Partially Implement In Firefox
Malwarebytes Browser Guard	Secure Downloads Ads Blockers Scripts and Malwares Blockers	Link	No	The fastest and safest web browsing experience. Secure your privacy by blocking trackers, blocking ads, and blocking malicious content.	Partially Implement In Firefox All of these features are already available thanks to the Enhanced Tracking Protection, and thanks to Safe Browsing feature

Chameleon	WebRTC Blockers Header Tracking Parameters Fingerprints	Link	Yes	Spoof your browser profile. Includes a few privacy enhancing options. A WebExtension port of Random Agent Spoofer	Partially Implement In Firefox. Indeed, there are a lot of features which are available thanks to this add-on, but which can be enabled through the "about:config" menu for example. However, Firefox does not support any obfuscation/jammer techniques
Change Geolocation (Location Guard)	Location	Link	xpi only	Easily change your geographic location (Geolocation) to your desired one and protect your privacy.	No Firefox can allow or block location.
Location Guard	Location	Link	Yes	Hide your geographic location from websites. Report a fake location with the addition of random noise in order to protect your privacy. Per site settings with three configurable levels of accuracy or even the possibility to use a fixed location.	No Firefox can allow or block location.
Smart Referer	Header Tracking Parameters	Link	Yes	Improve your privacy by limiting Referer information leak!	Yes Firefox allows the user in "about:config" to modify or disable the HTTP referrer
Terms of Service; Didn't Read	Policy Privacy (GDPR) Decoders	Link	Yes	"I have read and agree to the Terms" is the biggest lie on the web. We aim to fix that. Get informed instantly about websites' terms & privacy policies, with ratings and summaries from the www.tosdr.org initiative.	No There is not such kind of feature in Firefox
Safe Browsing	Privacy based Search Engines	Link	xpi only	With Safe Browsing Add-on you can stop search engines from tracking your searches and following you around the Internet.	Partially Implement In Firefox MyPrivateSearch is not available as a possible search engine.

Cookie-Editor	Cookies Cache History Managers	Link	Yes	Cookie-Editor lets you efficiently create, edit and delete a cookie for the current tab. Perfect for developing, quickly testing or even manually managing your cookies for your privacy. Also supports Firefox for Android.	Yes Firefox console allows the user to modify cookies.
TrackMeNot	Privacy-based Search Engines Fingerprints Tracking/ Privacy Protection Difficult to specify	Link	Yes	An artware browser add-on to protect privacy in web-search. By issuing randomized queries to common search-engines, TrackMeNot obfuscates your search profile and registers your discontent with surreptitious tracking.	No Firefox does not include any jammer/obfuscation tools.
Google Redirects Fixer & Tracking Remover	Tracking Parameters Link Cleaners	Link	Yes	Google uses a redirection link to track your clicks. This addon simply removes that redirection and turns every search result in its original link, saving your time and giving you more security and privacy.	No Firefox does not automatically change the redirection link.
hide.me VPN Free Proxy	VPN/Proxies	Link	No	Use hide.me VPN Proxy to bypass censorship and protect your privacy online.	WebRTC : Yes VPN service : No
Adblock Plus	Ads Blockers	Link	Yes	One of the most popular free ad blockers for Firefox. Block annoying ads on sites like Facebook, YouTube and all other websites. Adblock Plus blocks all annoying ads, and supports websites by not blocking unobtrusive ads by default (configurable).	Ads Blocker : No Tracking Blocker : Yes Tracking Blocker is available in Enhanced Tracking Protection

LastPass Password Manager	Passwords Managers	Link	No	LastPass, an award-winning password manager, saves your passwords and gives you secure access from every computer and mobile device.	Yes Firefox Lockwise allows managing passwords, and can be accessed "everywhere". However, Firefox Lockwise Does not generate Strong password, and does not automatically change these passwords
Norton Safe Web	Reputation and Blacklists for Rogue Websites	Link	No	Protects your browser from online threats.	?
Avast Online Security	Reputation and Blacklists for Rogue Websites Websites Blockers	Link	No	Avast Browser Security and Web Reputation Plugin. Offering protection against known phishing and malware sites, improving your browsing overall browsing experience with crowd sourced web reputation rating.	Tracking Blocker : Yes Scoring website : No Firefox uses Google Safe Browsing, but does not rank and does not give a mark according to user rating.
Norton Password Manager	Passwords Managers	Link	No	Norton Password Manager. Secure. Smart. Simple and Safe.	Yes Firefox Lockwise allows managing passwords, and can be accessed "everywhere". However, Firefox Lockwise Does not generate Strong password, and does not automatically change these passwords

Kaspersky Protection 2020	Tracking/ Privacy Protection Reputation and Blacklists for Rogue Websites Temporary Virtual Cards and Secure Payments Scripts and Malwares Blockers	Link	No	Your protection on the Internet with extension from Kaspersky	Safe Money : Partially Implement In Firefox thanks to multi account container extension Private Browsing : Partially Implement In Firefox thanks to Enhanced Tracking Protection URL Advisor : No Ads Blocker : No Dangerous website Blocker : Yes
AdGuard AdBlocker	Ads Blockers Scripts and Malwares Blockers Tracking/Privacy Protection	Link	Yes	Unmatched adblock extension against advertising and pop-ups. Blocks ads on Facebook, Youtube and all other websites.	Ads Blocker : No Block Third-Party Trackers : Yes (Enhanced Tracking Protection) Malware and Phishing Protection : ?
Browsec VPN	VPN/Proxies	Link	No	Best VPN addon for Firefox.	No
Hoxx VPN Proxy	VPN/Proxies	Link	No	Hoxx VPN Proxy service to unblock blocked websites, hide your location and encrypt your connection. Completely free.	No
u VPN	VPN/Proxies	Link	No	The most trusted and secure VPN for Firefox	No

Web of Trust, MyWOT/WOT: Website Reputation Rating	Reputation and Blacklists for Rogue Websites	Link	Yes	Instantly know which websites to trust! WOT protects you while you browse, warning you against dangerous sites that host malware, phishing, and more.	No
I don't care about cookies	Policy Privacy (GDPR) Decoders	Link	xpi only	Get rid of cookie warnings from almost all websites!	No This feature is to help people who erase their cookies automatically after each session.
µBlock	Ads Blockers Tracking/Privacy Protection	Link	Yes	The most efficient blocker for Firefox. No ads, no tracking, and insanely faster page loads.	Ads Blocker : No Cryptominer Blocker : Yes, Enhanced Tracking Protection
Hola Free VPN Proxy Unblocker	VPN/Proxies	Link	No	Unblock websites blocked in your country, company or school with Hola. Hola is free and easy to use!	Clean Cookie : Partially Implemented In Firefox VPN services : No
Touch VPN - Secure VPN proxy for unlimited access	VPN/Proxies	Link	No	Unblock any blocked website and stay secure with Touch VPN. One-click connect to unrestricted browsing through our fast VPN connection.	No

uMatrix	Content and Scripts Blockers (Advanced user)	Link	Yes	Point & click to forbid/allow any class of requests made by your browser. Use it to block scripts, iframes, ads, facebook, etc.	<p>Generally : No</p> <p>Change User Agent : Yes</p> <p>Manage/delete cookies : Partially Implement In Firefox</p> <p>Manually Block Tracker/Websites : Partially Implement In Firefox</p> <p>Spoof HTTP referer : Partially Implement In Firefox (we can change or disable referrer, but not to spoof it)</p> <p>Block Third-Party Request : Yes</p> <p>Block "Worker" JS function : Perhaps</p>
SetupVPN Lifetime Free VPN	VPN/Proxies	Link	No	Unblock any blocked website in your country, school or company. SetupVPN changes your IP address and location with just single click!	No
Windscribe - Free VPN and Ad Blocker	VPN/Proxies Ads Blockers	Link	Yes	Windscribe helps you circumvent censorship, block ads, beacons and trackers on websites you use every day.	<p>Ads Blocker : No</p> <p>Tracking Blocker : Yes (Enhanced Tracking Protection)</p> <p>Malware Blocking : No</p> <p>WebRTC Blocker : Yes</p> <p>User Agent Spoofing : Partially Implemented In Firefox</p> <p>Cookie Monitoring : Partially Implemented In Firefox</p> <p>VPN service : No</p>

1Password X – Password Manager	Passwords Managers	Link	No	The best way to experience 1Password in your browser. Easily sign in to sites, generate passwords, and store secure information, including logins, credit cards, notes, and more.	Yes Firefox Lockwise allows managing passwords, and can be accessed "everywhere". However, Firefox Lockwise Does not generate Strong password, and does not automatically change these passwords
NordVPN – The #1 VPN Proxy Extension for Firefox	VPN/Proxies	Link	No	Download NordVPN - the world's #1 VPN extension for Firefox. Encrypt your traffic, disguise your location, and access content anywhere, for unbeatable internet security!	VPN service : No Ads Blocker : No
Cookie Quick Manager	Cookies Cache History Proxy Managers	Link	Yes	An addon to manage cookies (view, search, create, edit, remove, backup, restore, protect from deletion and much more).	Edit and Manage Cookies : Partially Implement In Firefox This addo-ons gives more possibilities than Firefox build-in cookies features
Hotspot Shield Free VPN Proxy - Unlimited VPN	VPN/Proxies	Link	No	Unblock any website with the world's fastest VPN as rated by SpeedTest.	WebRTC blocker : Yes Tracking Blocker : Yes VPN service : No
ZenMate Free VPN for Firefox	VPN/Proxies	Link	No	ZenMate VPN - The best free Firefox VPN extension to hide your IP. Encrypt your connection, access our secure proxy servers & unblock websites easily.	No
WebRTC Leak Shield	WebRTC Blockers	Link	xpi only	Disable WebRTC and prevent IP leak.	Yes

Google Container	Containers/S andboxes	Link	Yes	It is a fork of the Facebook Container addon. Prevent Google from tracking you around the web. The Google Container extension helps you take control and isolate your web activity from Google.	No
Amazon Container	Containers/S andboxes	Link	Yes	It is a fork of the Google Container addon. Prevent Amazon from tracking you around the web. The Amazon Container extension helps you take control and isolate your web activity from Google.	No
ClearURLs	Tracking Parameters Link Cleaners	Link	Yes	Remove tracking elements from URLs.	No
FastProxy - Россия	VPN/Proxies	Link	No	An easy way to bypass the lock for residents of the Russian Federation! Only blocked sites will be launched through FastProxy, which will not affect the loading speed of other pages. FastProxy does not log user actions or insert ads.	No
Surfshark: VPN Extension for Firefox	VPN/Proxies	Link	No	Some features may require payment Some features may require payment Unblock content, stay anonymous & private with secure VPN proxy extension for Firefox.	Ads Blocker : No Tracking Blocker : Yes VPN service : No

Keeper® Password Manager & Digital Vault	Passwords Managers	Link	No	Protect and autofill passwords with the world's most trusted and #1 downloaded secure password manager and digital vault.	Yes Firefox Lockwise allows managing passwords, and can be accessed everywhere. However, Firefox Lockwise Does not generate Strong password, and does not automatically change these passwords Vault : No
PhishWall		Link	No	PhishWall	No
Stealthy	VPN/Proxies	Link	xpi only	Does your country/organization block you from facebook, youtube or others? Is the service you want unavailable in your country? Stealthy is the solution for you. Unlike other extensions we do the work of look for fast proxies for you.	No
Google Analytics Blocker	Scripts and Malwares Blockers	Link	Yes	Block Google Analytics in any website. If you are a developer and you do not want to watch your own visits on your page or you are just a web user that you do not want pages analyse you, this extension is for you.	Probably done by Enhanced Tracking Protection
CyberGhost Cookie Cleaner	Cookies Cleaners	Link	No	CyberGhost Cookie Cleaner is a plugin designed to give you control of your online preferences, personal data, and private details.	Partially Implement In Firefox. Firefox provides these features, but with less control.

Kee - Password Manager	Passwords Managers	Link	Yes	Save time, sign in easily to websites and avoid the hassle of forgotten password resets. Protect yourself and people you know from the nightmare of your accounts being hacked.	Yes Firefox Lockwise allows managing passwords, and can be accessed everywhere. However, Firefox Lockwise Does not generate Strong password, and does not automatically change these passwords
HTTPS Everywhere	HTTP to HTTPS	Link	Yes	Encrypt the web! HTTPS Everywhere is a Firefox extension to protect your communications by enabling HTTPS encryption automatically on sites that are known to support it, even when you type URLs or follow links that omit the https: prefix.	No
uBlock Origin	Ads Blockers	Link	Yes	Finally, an efficient blocker. Easy on CPU and memory.	No
NoScript Security Suite	Security Suite (NoScript only)	Link	Yes	The best security you can get in a web browser! Allow potentially malicious web content to run only from sites you trust. Protect yourself against XSS other web security exploits.	No
AdBlocker Ultimate	Ads Blockers Tracking/Privacy Protection	Link	Yes	Completely remove ALL ads. No "acceptable" ads or whitelisted advertisers allowed. This free extensions also helps block trackers and malware.	No
AdBlocker for YouTube™	Ads Blockers	Link	xpi only	Remove all annoying ads from YouTube.	No

Bitwarden - Free Password Manager	Passwords Managers	Link	Yes	A secure and free password manager for all of your devices.	Yes Firefox Lockwise allows managing passwords, and can be accessed everywhere. However, Firefox Lockwise Does not generate Strong password, and does not automatically change these passwords
FoxyProxy Standard	Easy Security and Privacy Settings Managers	Link	Yes	FoxyProxy is an advanced proxy management tool that completely replaces Firefox's limited proxying capabilities. For a simpler tool and less advanced configuration options, please use FoxyProxy Basic.	No
RoboForm Password Manager	Passwords Managers	Link	No	RoboForm, the #1 ranked Password Manager makes your life easier by remembering passwords and logging you into websites automatically	Yes Firefox Lockwise allows managing passwords, and can be accessed everywhere. However, Firefox Lockwise Does not generate Strong password, and does not automatically change these passwords
User-Agent Switcher and Manager	Header Tracking Parameters Spoofers	Link	Yes	Spoof websites trying to gather information about your web navigation—like your browser type and operating system—to deliver distinct content you may not want.	No : Firefox allows only to modify manually the user-agent.
AdNauseam	Ads Blockers Tracking/Privacy Protection	Link	Yes	Blocking ads and fighting back against advertising surveillance.	Ads Blocker : No Tracking Spoofer : No, Firefox uses Enhanced Tracking Protection to Block these trackers

Block Site	Websites Blockers	Link	Yes	A customizable, password-protected website blocker and redirector.	No
Clear Browsing Data	Cleaners	Link	Yes	Delete browsing data directly from the browser toolbar. Clear cookies, history and cache with a single click.	Yes It is possible to do so in Firefox about:preferences control panel
MYKI Password Manager & Authenticator	Passwords Managers	Link	No	Offline P2P encrypted password manager & authenticator. Auto-fill Two-Factor Authentication (2FA) tokens.	Yes Firefox Lockwise allows managing passwords, and can be accessed everywhere. However, Firefox Lockwise Does not generate Strong password, and does not automatically change these passwords
AdBlock for Firefox	Ads Blockers	Link	Yes	The most popular ad blocker for Chrome and Safari, now available for Firefox! Block all advertisements on all web pages, even Facebook, Youtube, and Hulu. Browse faster, too! Most ads aren't even downloaded at all, saving you time and bandwidth.	No
Qwant	Header Do Not Track (DNT) Flag Tracking/ Privacy Protection Privacy-based Search Engines	Link	xpi only	Qwant is the European search engine that does not track you. This extension makes Qwant your default search engine and homepage as well as allowing you to easily extend Firefox Tracking Protection to the whole Web.	Enable Tracking Protection: Yes (Enhanced Tracking Protection) Enable DNT : Yes (about:preferences) Set Qwant as default search engine : No

360 Internet Protection	Reputation and Blacklists for Rogue Websites	Link	xpi only	This extension is web threat protection of 360 Total Security for Firefox. It identifies malicious URL in real-time and blocks web threats. The capabilities of anti-fraud, anti-phishing and anti-malicious URL will be enabled once installed.	Yes : Google Safe Browsing is used by Firefox
anonymoX	VPN/Proxies Cookies Cleaners	Link	xpi only	Easy anonymous web browsing. – Change your IP-Address and country – Visit blocked or censored websites. – Delete cookies, show your public ip, and more We provide the proxy servers, no external proxies or other programs required	Delete Cookies: Partially Implemented In Firefox VPN service : No
User-Agent Switcher	Header Tracking Parameters Spoofers	Link	xpi only	Quickly and easily switch between popular user-agent strings.	Yes
Trusted Shops extension	Reputation and Blacklists for Rogue Websites	Link	xpi only	Safe online shopping	No (but could be seen as an equivalent to "Phishing and Malware Protection...)
Okta Browser Plugin	Passwords Managers	Link	No	Okta Browser Plugin	Yes Firefox Lockwise allows managing passwords, and can be accessed everywhere. However, Firefox Lockwise Does not generate Strong password, and does not automatically change these passwords

Bitdefender TrafficLight for Firefox	Reputation and Blacklists for Rogue Websites Scripts and Malwares Blockers	Link	No	Bitdefender TrafficLight adds a strong and non-intrusive layer of security to your browsing experience	Malware and phishing prevention thanks to a cloud analysis of webpage. : No Inform user if a website is safe or not : No (but Firefox Block website which are dangerous)
Mailvelope	PGP Mails Encryption	Link	Yes	Enhance your webmail provider with end-to-end encryption. Secure email communication based on the OpenPGP standard.	No
No Coin	Scripts and Malwares Blockers	Link	Yes	Stop coin miners on the web!	Yes : Enhanced Tracking Protection
CanvasBlocker	Fingerprinting Blockers	Link	Yes	Alters some JS APIs to prevent fingerprinting.	Yes : Enhanced Tracking Protection
KeePassXC Browser	Passwords Managers	Link	Yes	Official browser plugin for the KeePassXC password manager https://keepassxc.org .	Yes Firefox Lockwise allows you to manage passwords, and can be accessed ""everywhere"". However, Firefox Lockwise Does not generate Strong password, and does not automatically change these passwords
Nano Defender for Firefox	Ads Blockers Protectors	Link	Yes	Features highlight- Block ads reinsertion- Protect Nano Adblocker from probing- Quick and easy issue reporter	No

Disable JavaScript	Scripts and Malwares Blockers	Link	Yes	Adds the ability to disable JavaScript for specific sites or specific tabs.You can customize the default JS state (on or off), the disable behavior (by domain or by tab) and much more.	Partially Implement In Firefox (It is possible to block or not JS, but not according to the website)
Empty Cache Button	Cache Cleaners	Link	xpi only	Cache clearing made easy. One click.	Yes
JavaScript Toggle On and Off WebExtension	Scripts and Malwares Blockers	Link	Yes	Toggle JavaScript engine on and off the easy way	Partially Implement In Firefox (It is possible to block or not JS, but not according to the website)
CyberGhost VPN Free Proxy	VPN/Proxies	Link	No	Use CyberGhost Proxy Plugin to encrypt your browser traffic so you can be sure that no online snooper can see where you go on the web.	No
PKCS11 module loader	Third-Party Authentication Systems	Link	Yes	Configures Firefox to use PKCS11 for authentication	No
Tails Verification	Reputation and Blacklists for Rogue Websites Secure Download	Link	xpi only	Verify the authenticity of a download of the Tails operating system.	No
AdBlocker for YouTube™ Video	Ads Blockers	Link	xpi only	Removes all sorts of advertisement and banners from YouTube	No

Buster: Captcha Solver for Humans	Bypass CAPTCHA	Link	Yes	Save time by asking Buster to solve captchas for you.	No That is NoT a security/privacy Features
Authenticator	Third-Party Authentication Systems	Link	Yes	Authenticator generates 2-Step Verification codes in your browser.	No
Avira Password Manager	Passwords Managers	Link	No	Avira Password Manager saves, manages, and syncs all your passwords across all your devices.	Yes Firefox Lockwise allows managing passwords, and can be accessed everywhere. However, Firefox Lockwise Does not generate Strong password, and does not automatically change these passwords
minerBlock	Scripts and Malwares Blockers	Link	Yes	Blocks cryptocurrency miners all over the web.	Yes Enhanced Tracking Protection block cryptominer.
Clear Flash Cookies	Cookies Cleaners	Link	Yes	Automatically delete Flash cookies ("Local Shared Objects") after Firefox exits.	Password Manager feature : Yes Vault : No
Surfshark: VPN Extension for Firefox	VPN/Proxies	Link	No	Unblock content, stay anonymous & private with secure VPN proxy extension for Firefox.	Yes : Malware and phishing protection is available in Firefox. VPN service : No
Nano Adblocker	Ads Blockers	Link	Yes	An adblocker	No
FireX Proxy	VPN/Proxies	Link	Yes	FireX Proxy allows you to change your IP address. The proxy list updates about every minute.	No

Neat URL	Tracking Parameters Link Cleaners	Link	Yes	Remove garbage from URLs.	No
Public Fox	Session Lockers and Guest Sessions	Link	Yes	Block downloads, lock down bookmarks/addons/downloads with a password.	No
TunnelBear VPN	VPN/Proxies	Link	No	Rawwwr! Put a Bear in your browser and privately access a more open internet in seconds!	No
Canvas Defender	Fingerprinting Blockers	Link	xpi only	Instead of completely blocking canvas fingerprinting, Canvas Defender add-on creates a unique and persistent noise that hides your real canvas fingerprint. This add-on protects you while browsing both in normal and private mode.	Partially Implemented In Firefox : In the Enhanced Tracking Protection, there is a fingerprinting protection, but we do not know how, and what kind of fingerprinting countermeasures are implemented.
Barre de Confiance CM-CIC	Reputation and Blacklists for Rogue Websites	Link	xpi only	The confidence bar is software that installs on your internet browser. It allows you to verify that you are browsing one of the Crédit Mutuel sites or one of the CIC sites.	Yes : Firefox prevents websites from phishing. Theoretically
NoMiner - Block Coin Miners	Scripts and Malwares Blockers	Link	xpi only	Easily stop coin miners from using your computer resources.	Yes : Enhanced Tracking Protection

Sticky Password manager & safe	Passwords Managers	Link	No	Never forget a password again. Sticky Password manager saves them securely and types them for you as you browse. Automatically!	Yes Firefox Lockwise allows managing passwords, and can be accessed everywhere. However, Firefox Lockwise Does not generate Strong password, and does not automatically change these passwords
First Party Isolation	Containers/S andboxes	Link	Yes	This add-on enables the First Party isolation pref.Clicking the Fishbowl icon temporarily disables it.	Available in the TOR project, in Firefox, it should. However, there is not a simple command in "about:config" to do so.
Online Security Pro	Reputation and Blacklists for Rogue Websites	Link	xpi only	Online Security Pro protects you against malware, phishing and malicious URL's.	Yes
Best Proxy Switcher	VPN/Proxies	Link	xpi only	Best Proxy Switcher was developed by the team, who provides proxy service since 2004 year. You can use Best Proxy Switcher with your own proxy or let it download most recently checked list from our web site automatically!	No
Hide My IP VPN	VPN/Proxies	Link	xpi only	Hide My IP VPN is number one tool for hiding your IP and unblocking any web site!	No
Don't track me Google	Tracking Parameters Link Cleaners	Link	Yes	Removes the annoying link-conversion at Google Search / maps / ...	No

Random User-Agent	Header Tracking Parameters Spoofers	Link	Yes	Automatically change the user agent after specified period of time to a randomly selected one, thus hiding your real user agent	No : Firefox allows only to modify manually the user-agent.
Snowflake	TOR Solutions	Link	Yes	Snowflake is a WebRTC pluggable transport for Tor. Enabling this extension turns your browser into a proxy that connects Tor users in censored regions to the Tor network.	No
KeePassHttp-Connector	Passwords Managers	Link	Yes	This extension provides KeePass integration for browsers, using KeePassHttp plugin for KeePass. It provides secure access to your credentials stored in KeePass over HTTP.	Yes Firefox Lockwise allows managing passwords, and can be accessed everywhere. However, Firefox Lockwise Does not generate Strong password, and does not automatically change these passwords
Disable WebRTC	WebRTC Blockers	Link	Yes	WebRTC leaks your actual IP addresses from behind your VPN, by default.	Yes
Request Control	Tracking Parameters Link Cleaners	Link	Yes	An extension for controlling requests.	No

Firefox Integrated Features

Name	Category	Resources links	Quick description and notes
Enhanced Tracking Protection	Tracking Blocker Miners Blocker Fingerprint Blocker	Link Link Link	<p>Privacy and security feature by default ! 3 Different mode : Normal, Strict, Custom. It can block : Social media trackers Cross-site tracking cookies Fingerprinters Cryptominers Tracking content in all windows All these features are also included in some plugins (split in different plugins) Firefox uses a list of known trackers provided by Disconnect. In fact, DIsconnect helped to develop the Enhanced Tracking Protection</p> <p>This project come from Latest Firefox Rolls Out Enhanced Tracking Protection and is associated to the following paper : Tracking Protection in Firefox For Privacy and Performance</p>
Content Tracking	Tracking Blocker	Link	Old version of N°1 Enhanced Tracking Protection
Location	Location Blocker	Link	<p>Firefox always asks before sharing the location. If the users says "ok", the Google Location Services will be used. Else, nothing is transmitted. More information in Does Firefox share my location with websites? Mozilla Support</p>

Site Information Panel	Centralize Security Features	Link	This panel gives feedback about the security of the connection between the client and the website. It also grants the user to control the website permissions
Password Manager	Password Manager	Link	This feature allows the user to save its login in Firefox. It is possible to use a master password in order to encrypt the data which are stored in this manager. It is a password manager only for the web browser, not accessible from the outside or another machine. Interesting feature : it is possible to be warned if credentials have been leaked or stolen.
Firefox Lockwise	Password Manager	Link	New Password Manager from Mozilla organisation for Firefox and more ! "Securely access the passwords you've saved in Firefox from anywhere — even outside of the browser." This password manager also warned when a data breach occurs
Firefox Monitor	Password Manager	Link	This website helps to look if some passwords are in a data breach. It is a part of the Firefox Lockwise and the Password Manager tools. In fact information come from https://haveibeenpwned.com/
Firefox Account	Account System	Link	Now Firefox is not only a Browser, there are also some other services, such as Firefox Lockwise, Firefox Monitor, Firefox Send. All these services are available and integrated in the Firefox Browser, and can be used to improve the security of the user.
Firefox Send	Secure File Sharing System (with privacy respect)	Link	Used to share files using a link, file protected by a password. Privacy "should" be preserved.

Firefox 2FA for Account	Authentication	Link Link	2FA for Firefox Account
Firefox Multi-Account Containers	Container	Link Link Link	Create a special container to isolate each website you are visiting. In fact, it simulates another browser, with different cookies, etc. ADD-ON developed by Mozilla Firefox
Firefox Facebook Container	Container	Link Link	Create a special container for Facebook. It is possible to have the same connection cookies for facebook in the same container. ADD-ON developed by Mozilla Firefox
Firefox History Cleaner	History Cleaner	Link	Classical functionality to delete history.
Firefox Cookie Cleaner	Cookie Cleaner	Link	Classical functionality to delete cookie and website information...
Password on Insecure Website	Insecure Connection warning	Link	When a user enters a password in a textbox of a website which does not use a secure connection (TLS, etc.), Firefox warns the user.
DNT	Tracking Auto Blocker (DNT)	Link	It is possible to configure Firefox in order to send in the HTTP header the DNT flag.
Forget Button	Cookie Cleaner History Cleaner	Link	Thanks to this button, it is possible to clean the recent activity in the Browser and start "another clean session".

Private Browser	Private Browser	Link Link Link	Temporary session where tracking protection is at the maximum.
Firefox Private Network	VPN	Link Link Link	VPN service with the help of Mullvad and Cloudflare. A FREE EXTENSION will be provided soon and will allow users to browse using Firefox with integrated VPN. This extension is currently only available in US
Mixed Content Blocker	Insecure Connection warning	Link	Warn user when the website he is visiting load some content using HTTP instead of full HTTPS
Phishing and Malware Protection	Phishing and Malware Protection	Link	<p>From Mozilla description :</p> <p>Phishing and Malware Protection works by checking the sites that you visit against lists of reported phishing, unwanted software and malware sites. These lists are automatically downloaded and updated every 30 minutes or so when the Phishing and Malware Protection features are enabled.</p> <p>When you download an application file, Firefox checks the site hosting it against a list of sites known to contain "malware". If the site is found on that list, Firefox blocks the file immediately, otherwise it asks Google's Safe Browsing service if the software is safe by sending it some of the download's metadata.</p>

Automatic Connection Manager	Automatic Connection Manager	Link	<p>In order to improve performance, Firefox pre-fetches some webpage, and creates some TCP connection, or DNS lookup in the back-end. Hence it reduces the latency. However, it could be a security and privacy issue, because for a unique webpage, the TCP connection, DNS lookup and pre-fetch webpage are close to unique, and it could be possible to determine the navigation of the user thanks to these informations.</p> <p>Firefox allows users to manage these settings and to improve their privacy and security thanks to this initiative.</p> <p>In addition, Firefox performs some automatic connections to ensure privacy in security. Indeed, It is possible to configure Firefox for auto-updates, and to check security lists for example (CRL, OSCP, certificate verification, Phishing and Malware Protection and all this kind of blacklist.</p>
Web Authentication API	Authentication	Link Link	Firefox supports Web Authentication tools (for example Firefox is compatible with hardware authenticators and is compatible for with Web Authentication API (WebAuthn))
Cache Cleaner	Cache Cleaner	Link	Firefox allows users to clean the cache.
Cookies and SiteData Blocker	Cookies and SiteData Blocker	Link	It is possible to tell Firefox to not create cookies for some website, and to block site data storing by website. It could be impossible to log in to the website authentication system...
MIME confusion attack blocker	MIME confusion attack blocker	Link	Not currently available?
DNS-over-HTTPS	DNS over HTTPS	Link Link	<p>DNS uses UDP and is not secure. DNS request are not encrypted and everyone is able to read the network traffic</p> <p>Firefox allows the user to use DNS-over-HTTPS in order to encrypt DNS resolution. Hence, there are more security and a little bit more privacy.</p>

Firefox Fingerprinting Blocker (part of Enhanced Tracking Protection)	Fingerprinting Blocker	Link	Browser characteristics can be used by fingerprinter in order to identify a specific user. Firefox does not block scripts or content which can be used for fingerprinting (otherwise some website could be broken), but Firefox blocks requests to website known as fingerprinter.
NSS Network Security Services	Cryptography API	Link	NSS is a standard that is respected by Firefox. It is a Cryptography API to help web developers to implement security features.
Automatic Update of the Firefox Browser	Automatique Update	Link	Firefox is an open source browser, and a software where developers also focus on security vulnerabilities. Thanks to the automatic update, the Firefox Browser is usually up-to-date for most of the users. Of course, automatic updates are not always a good idea (because new versions are not always really safe and stable), but for most of the end-users, this feature is the best way to keep their browser safe.
TLS/SSL Support (+ certificate, OCSP)	Secure Connection	Link	Firefox thanks to NSS and Necko handles TLS/SSL connection.