

How To Use a Password Manager

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Nobody wants to remember strong passwords. As much as we all want to stay safe online it is just not easy to remember 7 different 20-character long passwords just to check your email address. This is what password managers are for.

- A password manager is a program that keeps all of your passwords encrypted by a single password.
- Certain password managers have extra features such as auto-filling inputs in websites, storing passwords on the cloud, and the ability to store files behind a single password as well.
- There are lots of good password managers out there but my personal recommendation is the KeePassXC password manager. I prefer KeePassXC because its autofills inputs on websites and has the ability to store things like images of passports. It also is a fully featured password manager that does not store passwords on the cloud, which is important to me because I like having control over who has access to my passwords. If you are curious about how to use KeePassXC, this guide will explain how.



1) Download

KeePass has versions that work on almost any platform or operating system, all of these can be found on the KeePassXC <u>download page</u>. This guide will assume that you are using Windows as that is the most common OS but know that Mac, and Linux users all should be able to use KeePassXC.

a) First click the download button



 b) Accept the license agreement and then select a file location to store KeePass. If you don't know what to do with this the default option should be ok, you can also choose to enable AutoStart on login and create a desktop shortcut.

🔁 KeePassXC Setup	—		×
Destination Folder Click Next to install to the default folder or click Change to choose a	another.		
Install KeePassXC to:			
C:\Program Files\KeePassXC\ Change Create a shortcut on the desktop Autostart KeePassXC on login			
Back	Next	Ca	ncel



c) The next section just confirms your installation so click install.



2) Create a Database

a) When launching KeePass for the first time you should see the following screen. The first step is to set up a database in order to store all of your passwords. To do so first, select this button to create a new database.





🔞 Create a new KeePassXC databas	se		?	×
Ge	eneral Databas	se Information		
	Please fill in the disp	play name and an optional description for your new database:		
	Database Name:	Passwords		
	Description:	Sample database for CSSCD guide		
		Go Back Continue	Cancel	

b) Doing so will prompt you to add a database name and a description.

c) The next section will give you more control over how the database is encrypted, most likely the default database format should be fine. You can also slide the decryption time slider to control how long it takes to decrypt your database once you put in the password, higher time is more secure but will be more annoying when decrypting.

👀 Create a new KeePassXC data	base	?	×
	Encryption Settings		
	Here you can adjust the database encryption settings. Don't worry, you can change them later in t database settings.	he	
	Decryption Time: 1.0 s	5.0 s	
	Database format: KDBX 4 (recommended) Unless you need to open your database with other programs, always use the latest format.	•	
	Advanced Set	ings	
	Go Back Continue	Cancel	



- d) KeePass will then prompt you to create a Master Key for your new KeePass database.
 Please make sure that you can remember this password because if it is forgotten your passwords will be unrecoverable
- e) This is also where you can set up a key file if you wish by selecting show expert options but this guide will not go into this option.

👀 Create a new KeePassXC datab	ase			?	×
C	Oatabase Credenti	ials			
	A set of credentials kno	own only to you that protects your database.			
	Password				
	Enter password:	•••••	$\overline{\ }$	Q	
	Confirm password:	•••••			
			Cancel		
		Add additional protection			
		Go Back Done		Cancel	

f) The next section will ask you where you would like to save your database file. I would recommend creating a new folder for your database files so that you can easily find them and move them to other devices if necessary.

3) Add entries

a) Once your new database is created you will see a new UI, there are three main parts of this UI: The entry pane, the folder pane, and the details pane. I have added a sample entry into this database to show how each pane works. The folder pane is where you can add folders to organize your passwords, do this by right clicking in the folder pane and selecting "new group". The entry pane shows each entry in the selected folder. The detail pane shows the details of the currently selected entry.



👀 Passwords - KeePas	sXC								-		×
Database Entries G	Groups Tool	s View H	lelp								
b 🗈 🖯	• 🕀	\oslash)	•ुन्	5 <u>300</u> 5 v	٠.	› ل	ર Search	(Ctrl+F)		?
Root	0 0	Title	▲ Use	ername	URL		Notes		Modi	fied	
		📍 Sample	Passw CSS	CD					4/23/2	2024 3:08	8 PM
Folder	Entry Pane										
Pane	💡 Ro	ot / Samp	le Passwor	d							×
	General	Advanced	Autotype								
	Username	CSSCD				URL					
	Password	& ••••	••		Exp	piration	Never				
Searches and Tags	Tags	authenticat	ion sample								
C All Entries	Notes										
E Expired				De	etail	Par	ne				
R Weak Password											
S authentication											
										1 E	ntry

b) Now let's learn how to create our own entries, start by navigating to the folder you want to save the password in and right click anywhere in the password pane, from here you can select a new entry.





c) From here you can add attributes such as a title, username, url, notes, tags, and an expiration date. It will automatically generate a secure password for you but this can be overwritten if you choose, you can also use the dice icon to have it generate a new password for you.

👀 Passwords - Ke	ePassXC	- 0	×
Database Entries	s Groups To	bols View Help	
🗁 🗊 (₿ • ⊕		?
Root • Add en	ntry		
A	Title:	Another Sample Password	
1	Username:	CSSCD	▼
Entry	Password:	·····	Ø
₿	URL:	www.csscd.org	<u>+</u>
Advanced	Tags:	adding tags makes searching passwords easier ×	
	Expires:	□ 4/23/2024 3:21 PM ▼ Presets	Ŧ
0	Notes:	this is another sample password	
lcon			
<u> </u>			
Auto-Type			
	J	OK Can	cel
		1	Entry

d) Select OK when you finish and you should be able to see your new information in the password menu.

👀 Passwords - KeePas	sXC					- 0 X
Database Entries (Groups Tool	ls View H	lelp			
b 🗈 🖯	• 🕀	\oslash	°⊒, • , • , €) ····································	र्द्धे Q Search	n (Ctrl+F)
Root	00	Title	▲ Username	URL	Notes	Modified
		📍 Anothe		www.csscd.org	this is another sam	
		📍 Sample	Passw CSSCD			4/23/2024 3:08 PM
	📍 Ro	ot / Anoth	er Sample Passwor	d		×
	General	Advanced	Autotype			
	Username	CSSCD		URL	www.csscd.org	
—	Password	& ••••	••	Expiration	Never	
Searches and Tags	Tags	adding tage	s makes searching passwo	ords easier		
All Entries	Notes	this is anoth	er sample password			
🕄 Expired						
R Weak Password						
S adding tags ma						
						2 Entries



e) Bonus tip: by right clicking on a password entry you can select Copy Password and it will copy the password to your clipboard for 12 seconds giving you some time to paste it in wherever you need it.

4) Enable Auto-fill

One common feature to enable with any password manager is enabling it to integrate with your browser to auto-fill passwords on websites you visit. In order to use this feature, your password entries must include a URL field with the location you want to autofill the passwords but remember you can go back and add one now if you haven't already. It is also necessary that you keep your KeePass database open and unlocked when browsing for this feature to work, if needed KeePass can be configured to automatically start up when you log into your computer.

- a) First you will need to get the KeePass browser extension for your chosen browser (<u>Firefox</u>, <u>Chrome</u>, <u>Edge</u>). You will notice that once downloading the extension KeePass will not be able to sync to it just yet.
- b) In order to integrate the browser plugin in KeePassXC, first click on the settings gear above your database, then click Browser Integration, and select the check box that says Enable Browser Integration





👀 Settings - KeePassXC -	- 0	\times
Database Entries Groups Tools View Help		
	rl+F)	?
Application Settings		
▲ Enable browser integration		
General Advanced		
KeePassXC-Browser is needed for the browser integration to work. General Download it for <u>Firefox</u> and <u>Google Chrome / Chrogenery Wealdit / Brave</u> and <u>Microsoft Edge</u> .		
Enable integration for these browsers: Chrome, Vivaldi, and Brave Security		\mathcal{D}
Request to unlock the database if it is locked Match URL scheme (e.g., https://example.com) Return only best-matching credentials		
Browser Allow returning expired credentials		
SSH Agent		
ОК	Cance	:I
	2 Ent	tries

c) Next select which browsers you will be integrating and select OK

d) Now in your browser you can click the extension and click reload. Now you will have the option to connect the extension to KeePassXC



e) Next you will need to add a unique identity for the browser you are setting up and select Save and allow access





f) Now as long as your database has a username and password associated with your URL this icon will appear in the login fields. (if the icon is grayed out you may need to check your KeePass application and allow the website to access the entry in the pop-up window)

Email or phone number	٢
Password	

g) Clicking the icon should immediately fill in the login fields with your information

username	Ú
•••••	