

VeraCrypt Installation Guide and Demo



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Download and Installation

- 1. Download the latest VeraCrypt installation file <u>here</u>. Select a version that is supported by your operating system.
- 2. Double-click/Run the downloaded executable file. The VeraCrypt Installer should open.
- 3. Accept the license terms and click 'Next'.
- 4. In the next step, the 'Install' option is selected by default. Keep this selection and click 'Next'.

The `Extract' option allows you to use VeraCrypt in portable mode. You need system administrator privileges to run VeraCrypt in portable mode each time you launch it. To learn more, click <u>here</u>.

5. Click 'Install' and wait until you get a prompt telling you that installation has successfully completed. Click 'OK' and then 'Finish'. VeraCrypt is now installed on your system.

Creating a VeraCrypt Volume

<u>Step I:</u>

Launch VeraCrypt and click on the 'Create Volume' button as highlighted in the snapshot.

<u>Step II:</u>

The 'Create an encrypted file container' option is selected by default. Keep this selection and click on next.



<u>Step III:</u>

Select 'Standard VeraCrypt volume' and proceed.



<u>Step IV:</u>

Create a new VeraCrypt volume by clicking on the select file option.



Step IV (cont):

- Once the file selector opens, go to the location where you want to store the new VeraCrypt volume.
- Give the desired name to the volume in the 'File name' box and click 'Save'.
- Click 'Next' on the VeraCrypt window.

Note that VeraCrypt will not encrypt any existing files (when creating a new volume). If you select an existing file in this step, it will be overwritten and replaced by the newly created volume (so the overwritten file will be lost, not encrypted).



<u>Step V:</u>

Leave the default settings at this step (encryption algorithm is AES) and click 'Next'.

SeraCrypt Volume Creation Wizard	
VeraCrypt	Encryption Algorithm AES Test FIPS-approved cipher (Rijndael, published in 1998) that may be used by U.S. government departments and agencies to protect classified information up to the Top Secret level. 256-bit key, 128-bit block, 14 rounds (AES-256). Mode of operation is XTS. More information on AES Benchmark Hash Algorithm SHA-512 Information on hash algorithms
	Help < Back Next > Cancel

<u>Step VI:</u>

- Specify the size of the volume you want to create.
- Create a volume large enough to store all your data to avoid having to use multiple encrypted volumes.



<u>Step VII:</u>

- Read the instructions given in the window carefully.
- Create a strong password, preferably longer than 20 characters and store it in a secure location like <u>LastPass</u>.

Try using <u>random.org</u> to create strong, random alphanumeric passwords.

V	'olume P	assword
	Password:	LA20YqDNhW8h8RYREy2vG0ba
	Confirm:	LA20YqDNhW8h8RYREy2vG0ba
		Use keyfiles V Display password Use PIM
av in gu ca et ch	void choosing o a dictionary (o ot contain any i jess. A good p ise letters, nun c. We recomme	ant that you choose a good password. You should one that contains only a single word that can be found or a combination of 2, 3, or 4 such words). It should names or dates of birth. It should not be easy to assword is a random combination of upper and lower mbers, and special characters, such as $@^{\ }=$ \$ * + end choosing a password consisting of 20 or more onger, the better). The maximum possible length is 64
	Help	<pre> < Back Next > Cancel</pre>

<u>Step VIII:</u>

Leave the default settings. Move your mouse within the VeraCrypt window as randomly as possible until the randomness indicator turns completely green. Then, click 'Format'.

🥸 VeraCrypt Volume Creation Wizard	
	Volume Format Options Filesystem FAT Cluster Default Dynamic Random Pool: -+++, /, , *, *+/+/+.+*, *, ,+-, Header Key: ************************************
VeraCrypt	Abort Done Speed Left IMPORTANT: Move your mouse as randomly as possible within this window. The longer you move it, the better. This significantly increases the cryptographic strength of the encryption keys. Then click Format to create the volume.
	Randomness Collected From Mouse Movements
	Help < Back Format Cancel

You will see a prompt telling you that a new volume has been created. At this point, if you don't want to create another VeraCrypt volume, click 'OK' and then 'Exit'.



Mounting a VeraCrypt Volume

<u>Step I:</u>

- Launch VeraCrypt.
- Select a drive letter to which you want to mount the VeraCrypt volume.
- You can select any drive letter. VeraCrypt only shows letters that are available in your system.

🐱 VeraC	rypt						- • •
Volumes	System	Favor <u>i</u> tes	T <u>o</u> ols	Settings	<u>H</u> elp		Home <u>p</u> age
Drive	Volume				Size	Encryption Algorithm	Type 🔺
A:							
—В:							E
G:							
):							
K:							
M:							
-N:							
O :							-
	<u>C</u> reate Volur	ne		Volume I	Properti	es	Wipe Cache
Volume							
	-					•	Select File
VeraC	ypt 📝 <u>N</u> e	ver save hist	ory		V	olume <u>T</u> ools	Select Device
	<u>M</u> ount		ito-Moun	t Devices		Di <u>s</u> mount All	Exit

<u>Step II:</u>

Click 'Select File'. A file selector window will open.

🐱 VeraC	rypt								• X
Volumes	System	Favor <u>i</u> tes	T <u>o</u> ols	Settings	<u>H</u> elp			Ho	me <u>p</u> age
Drive	Volume				Size	Encryption A	Jaorithm	Туре	
A:								.//-	
B:									
G:									E
H:									
I:									
ш. ; , , , , , , , , , , , , , , , , , , ,									
L:									
M:									
-N:									
0:									-
	Create Volur	ne		Volume	Properti			Wipe Cache	
					rioperu	cs		wipe caule	
Volume							_		_
	-						-	Select File	
VeraCr	ypt								
1	<u>√</u> <u>N</u> ∈	ever save hist	ory		V	olume <u>T</u> ools	•	Select Device.	
	Mount	A	uto-Moun	t Devices		Di <u>s</u> mount /	All	Exit	
						_			

<u>Step III:</u>

- In the file selector, browse to the location where you have your VeraCrypt volume stored.
- Select the VeraCrypt volume and click 'Open'.

Select a VeraCrypt Volume					×
😋 🔾 🗢 📙 « Data Tear	n 🕨 VeraCrypt 🕨 Example	- + j	Search Example		م
Organize 🔻 New folde			:== :==	- 🗍	?
🔆 Favorites	▲ Name		Date modified	Туре	
😵 Dropbox 🕮 Recent Places	🚽 Dummy1		12-Sep-16 1:52 PM	File	
Desktop					
🗼 Downloads	E				
🥽 Libraries					
Documents Music					
E Pictures					
yideos					
🤣 Homegroup					
	-	III			•
File na	ame: Dummy1	•	All Files (*.*)		•
			Open	Cancel	

<u>Step IV:</u>

- Press the 'Mount' button.
- A password prompt will appear. Type the password in the password input field and click 'OK'.

N:		Ŧ
<u>C</u> rea	te Volume Properties <u>Wi</u> pe Cache	
Volume	C: \Users\ifmruser \Dropbox\Data Team\VeraCrypt\Example \D ▼ Select <u>F</u> ile	J
VeraCrypt	☑ Never save history Volume Tools Select Device	
Mo	unt Di <u>s</u> mount All E <u>x</u> it	

• If you have entered your password correctly, the volume will be mounted.

Enter	password for	C:\Users\ifmruser\Dropbox\Data Team\VeraCryp	ot\Example\Dummy1
	Password:	•••••	ОК
	PKCS-5 PRF:	Autodetection TrueCrypt Mode	Cancel
		Use PIM Cache passwords and keyfiles in memory Display password Use keyfiles Keyfiles Keyfiles	Mount Options

<u>Step V:</u>

The mounted volume can be opened by double clicking on the selected drive as shown in this screenshot.

🐱 VeraCrypt		х
<u>V</u> olumes System Favor <u>i</u> tes T <u>o</u> ols Settings <u>H</u> elp	Homepag	je
Drive Volume Size Encryption Algorithm	Туре	-
A: B:		
G: C:\Users\ifmruser\Dropbo\Dummy1 768 KB AES	Normal	Ε
H:		
	-	_
M:		
- N:		
0:		Ŧ
<u>C</u> reate Volume <u>V</u> olume Properties	Wipe Cache]
Volume		
C:\Users\ifmruser\Dropbox\Data Team\VeraCrypt\Example\C -	Select <u>F</u> ile	J
VeraCrypt Velume Tools	Select Device]
Dismount Devices Dismount All	E <u>x</u> it	

Step V (cont.):

- The mounted volume can also be found in the Computer (My Computer). It can be opened by double-clicking the corresponding drive letter.
- A mounted VeraCrypt volume behaves like a real disk. Files can be saved in this disk (copy, move etc.) as you would in any disk drive.
- Once mounted, files stored in a VeraCrypt volume can be directly accessed and worked upon.



<u>Mounting TrueCrypt volumes using VeraCrypt:</u>

- VeraCrypt also allows you to load TrueCrypt volumes and partitions (created with versions 6.x and 7.x).
- Follow Steps I to III used above for mounting a VeraCrypt volume
- In step IV, check the 'TrueCrypt Mode' box in the password prompt, type in your password and click 'OK'

Enter password for C:\Users\ifmruser\Dropbox\Data Analytics\Productivity Data					
Password:			ОК		
PKCS-5 PRF:	Autodetection 🔻	TrueCrypt Mode	Cancel		
	Use PIM				
	Cache passwords and keyf	files in memory			
	Display password				
	Use keyfiles	Keyfiles	Mount Options		

• The TrueCrypt volume is now mounted and can be opened by double clicking on the selected drive.

Dismounting a volume:

- To close the volume, select the drive from the list of mounted drives and click 'Dismount'.
- Note that the volume also gets dismounted if you restart your operating system.

🧏 VeraCrypt	- • •
<u>V</u> olumes System Favor <u>i</u> tes T <u>o</u> ols Settings <u>H</u> elp	Home <u>p</u> age
Drive Volume Size Encryption Algorithm Type	^
A:	
G: C:\Users\jfmruser\Dropbo\Dummy1 768 KB AES Norm	al
]]:	
M:	
0:	-
<u>C</u> reate Volume <u>V</u> olume Properties	pe Cache
Volume C:\Users\jfmruser\Dropbox\Data Team\VeraCrypt\Example\C Sel	ect <u>F</u> ile
VeraCrypt Volume Tools Select	t D <u>e</u> vice
Dismount Digmount All	E <u>x</u> it

For detailed documentation on VeraCrypt, click <u>here</u>. To download a pdf version of the official user guide click <u>here</u>.