

VeraCrypt Installation Guide and Demo



Contents

- 1. Download and Installation
- 2. <u>Creating a VeraCrypt Volume</u>
- 3. Mounting a VeraCrypt Volume
 - <u>Mounting TrueCrypt volumes using VeraCrypt</u>
- 4. Dismounting a VeraCrypt Volume

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.

🤒 VeraCrypt				
Volumes System	n Favorites Tool	s Settings Hel)	Homepage
Drive Volume A: B: G: H: I: J: K: L: M: N: O		Size	Encryption Algorithm	Type
Create Vo Volume VeraCrypt	Iume Never save history	Volume Proper	ties Volume <u>T</u> ools Digmount All	Wipe Cache Select File Select Device Exit

<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 dassified 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 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:	LA20YqDNhW8h8RYREy2vG	0ba
	Confirm:	LA20YqDNhW8h8RYREy2vG	0ba
		 Use keyfiles Display password Use PIM 	Keyfiles
It av gu ca ct ch	is very importa void choosing o a dictionary (o ot contain any i uess. A good p use letters, nun c. We recommunaracters (the l maracters.	ant that you choose a good pa ine that contains only a single in a combination of 2, 3, or 4 s names or dates of birth. It shi assword is a random combinat hbers, and special characters, end choosing a password cons onger, the better). The maxin	assword. You should word that can be found such words). It should ould not be easy to tion of upper and lower , such as $@ ^ = $ * +$ sisting of 20 or more num possible length is 64
	Help	< Back Nex	kt > Cancel

<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 dick 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		Homepage
Drive	Volume				Size	Encryption Algorithm	Туре
A:							
—В:							=
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	ever save hist	ory		V	olume <u>T</u> ools	Select Device
	Mount		ito-Moun	t Devices		Di <u>s</u> mount All	E <u>x</u> it

<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	Type	
A:								.//-	
B:									
G:									E
H:									
I:									
ш К:									
L:									
M:									
-N:									
0:									-
	Create Volur	ne		Volume	Properti			Wine Cache	
					rioperu	cs		wipe caule	
Volume							_		_
	-						-	Select File	
VeraCr	ypt								
1	<u>√</u> <u>N</u> ∈	ever save hist	ory		V	olume <u>1</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 Volur	ne		×
C v Vata Te	am ▶ VeraCrypt ▶ Example	✓ ⁴ → Search Example	Q
Organize 🔻 New fo	der		
🔶 Favorites	- Name	Date modified Type	2
Copbox	Dummy1	12-Sep-16 1:52 PM File	
Desktop			
🗼 Downloads	E		
🥽 Libraries			
Documents			
Music Pictures			
Videos			
🔞 Homegroup			
		III	÷
File	name: Dummy1	✓ All Files (*.*)	-
		Open Ca	ncel

<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:		•
<u>C</u> rea	ate Volume Properties Wipe Ca	che
Volume	C:\Users\ifmruser\Dropbox\Data Team\VeraCrypt\Example\D ▼ Select <u>Fil</u>	e
VeraCrypt	☑ Never save history Volume Tools Select Dev	ice
Mo	Dunt Dismount All	<u>c</u> it

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

Inter	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	
Volumes System Favorites Tools Settings Help	Home <u>p</u> age
Drive Volume Size Encryption Algorithm	Туре
B:	
G: C:\Users\ifmruser\Dropbo\Dummy1 768 KB AES	Normal
H:	
<i>■</i> K:	
L:	
- N:	
■ 0:	+
<u>C</u> reate Volume <u>V</u> olume Properties	Wipe Cache
Volume	
C:\Users\ifmruser\Dropbox\Data Team\VeraCrypt\Example\D 🗸	Select <u>F</u> ile
VeraCrypt Volume Tools	Select D <u>e</u> vice
Dismount Digmount All	Exit

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:	
	-
<u>C</u> reate Volume <u>V</u> olume Properties	pe Cache
Volume	
C:\Users\ifmruser\Dropbox\Data Team\VeraCrypt\Example\D	ect <u>F</u> ile
VeraCrypt Velume Tools Select	ct 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>.