How to: Secure Equihash wallet when not being used

Note: The purpose of this document is to provide a workaround for securing a windows based BTCZ wallet while not in use. While this procedure drastically reduces the risk of wallet theft, it does not guarantee security, and it is highly recommended that you run any wallet inside of a VM with updated antivirus to reduce the chances of theft. With that said, this information is provided free of charge, with no warranty whatsoever, and you agree to use at your own risk.

1. **Download and run a copy of 7Zip from "http://www.7-zip.org/download.html" that is compatible with your CPU / operating system.**

A. If you are unsure of which version, choose the 32 bit version, as it is backwards compatible.

Download 7-Zip 9.20 (2010-11-18) for Windows:

Link	Type	Windows	
Download	.exe	32-bit x86	7-Zip for 32-bit Wind
Download	.msi		
Download	.msi	64-bit x64	7-Zip for 64-bit Wind
Download	.msi	IA-64	7-Zip for Windows IA
Download	.exe	ARM-WinCE	7-Zip for Windows Mo
Download	.zip	32-bit	7-Zip Command Line
Download	tar.bz2	Any	7-Zip Source code

⁊⁊ 7z1701.exe ∧

B. Once downloaded, launch the executable to install 7zip on your PC containing your BTCZ
wallet. If "User Account Control" dialog pops up, click "Yes" to continue.

or 32-bit Windows

or 64-bit Windows x64 (Intel 64 or AMD64)

escription

el 64 or AMD64)

ersion, 7z DLL, Plugin

7z 7-Zip 17.01 beta Setup   ✕

Destination folder:

C:\Program Files (x86)\7-Zip\   ...

Install   Cancel

or 32-bit Windows

or 64-bit Windows x64 (Intel 64 or AMD64)
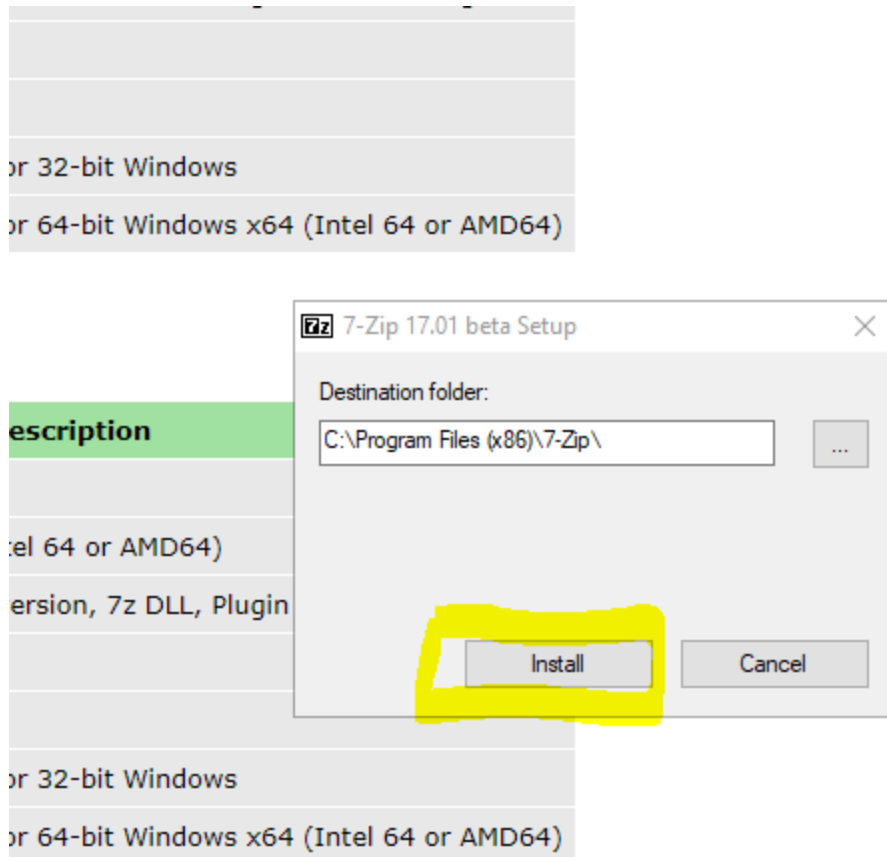
C. A dialog screen shall pop up, prompting you to install 7Zip. Click "Install"

)

p for 32-bit Windows

p for 64-bit Windows x64 (Intel 64 or AMD64)

7-Zip 17.01 beta Setup ✕

Destination folder:

C:\Program Files (x86)\7-Zip\   ...

7-Zip 17.01 beta is installed

Close   Cancel

Description

Intel 64 or AMD64)

e version, 7z DLL, Plugin

)

p for 32-bit Windows

p for 64-bit Windows x64 (Intel 64 or AMD64)

D. Once the installation is complete you will then click "Close". You should now have 7Zip installed, and ready to use.

2. Locate the BTCZ wallet.dat file and secure it using 7zip

	Type	Windows
	.exe	32-bit x86
	.exe	64-bit x64
	.7z	x86 / x64
	.7z	Any
	.7z	Any / x86 / x64
	.msi	32-bit x86
	.msi	64-bit x64

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	Type	Windows
	.exe	32-bit x86
	.msi	
	.msi	64-bit x64
	.msi	IA-64
	.exe	ARM-WinCE
	.zip	32-bit
	.tar.bz2	Any
	.7z	32-bit

wnload - ...   C:\Windows

A. Right-click on the windows button then left-click on "Run" to open the "Run" command
window. (Alternatively, you can simply hit "Windows + R" hotkey to access the menu)
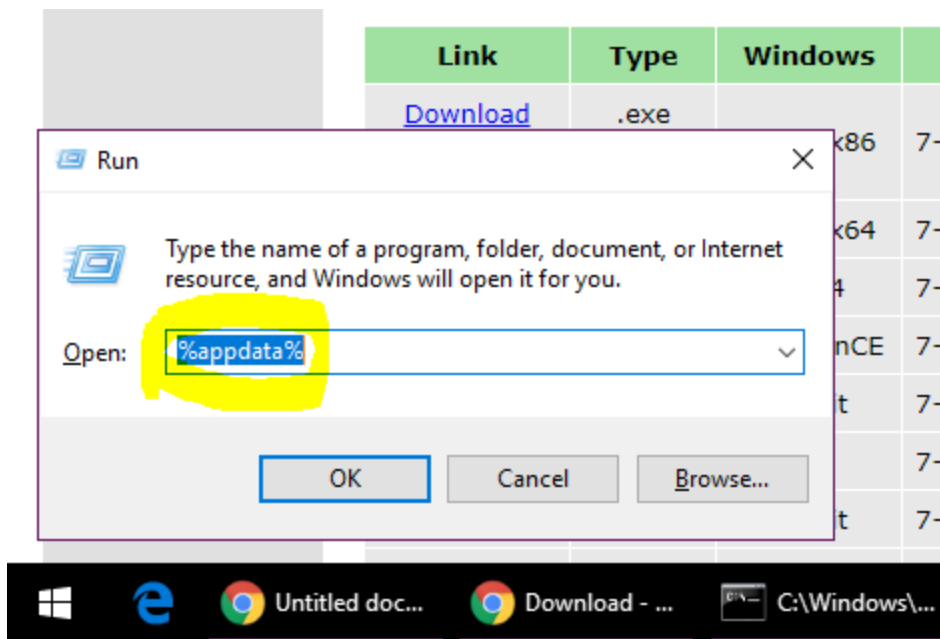
B. Inside the "Run" command window, type %appdata% inside the "Open" dialog and click "OK" to access the hidden folder where the BTCZ wallet resides.
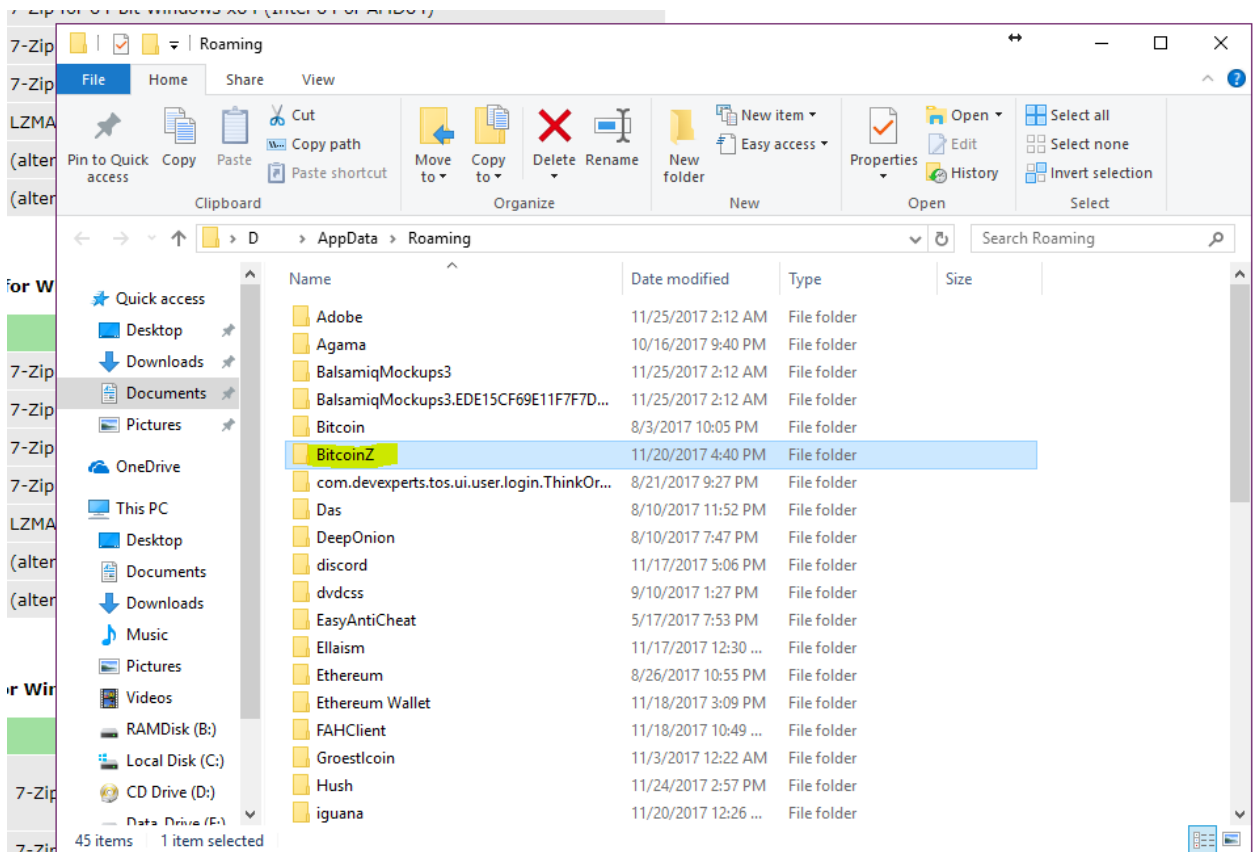
C. Double-click on "Bitcoinz" folder to access the "wallet.dat" location.
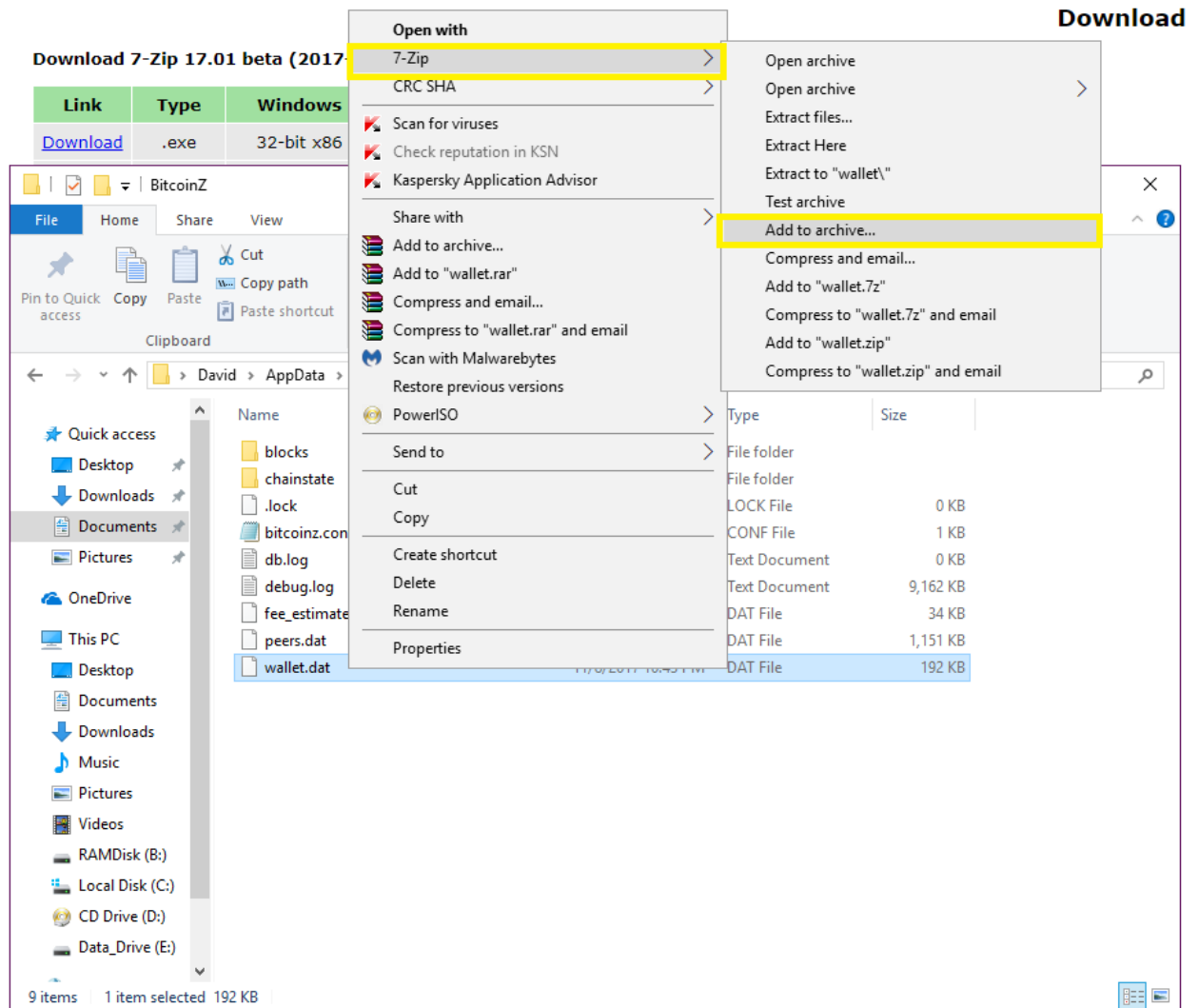
C. Right-click on the "wallet.dat" file inside the "Bitcoinz" folder. Then hover over the "7zip" sub-menu then click on "Add to archive..."
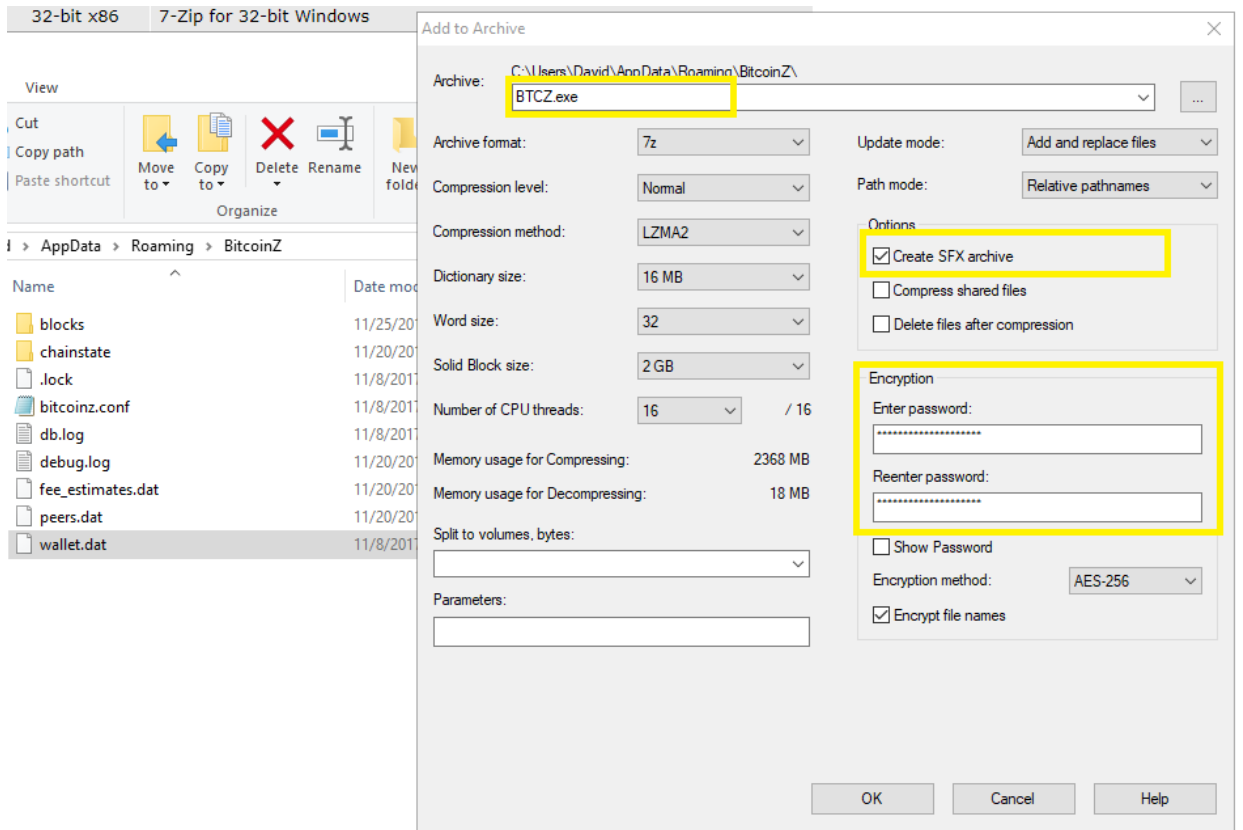
D. You will then be prompted with the 7zip archive creation tool. This tool will create a self extracting encrypted zip file containing your "wallet.dat" file. Be sure to click "Create SFX archive" and to use a secure password, of at least 15 characters using alpha-numeric with symbols. Then click "OK"

(Note: This file will become your repository for the "wallet.dat so if anyone gets ahold of the file, the will need to crack the encryption first before they can access your wallet and transfer tokens. Guard it well.)
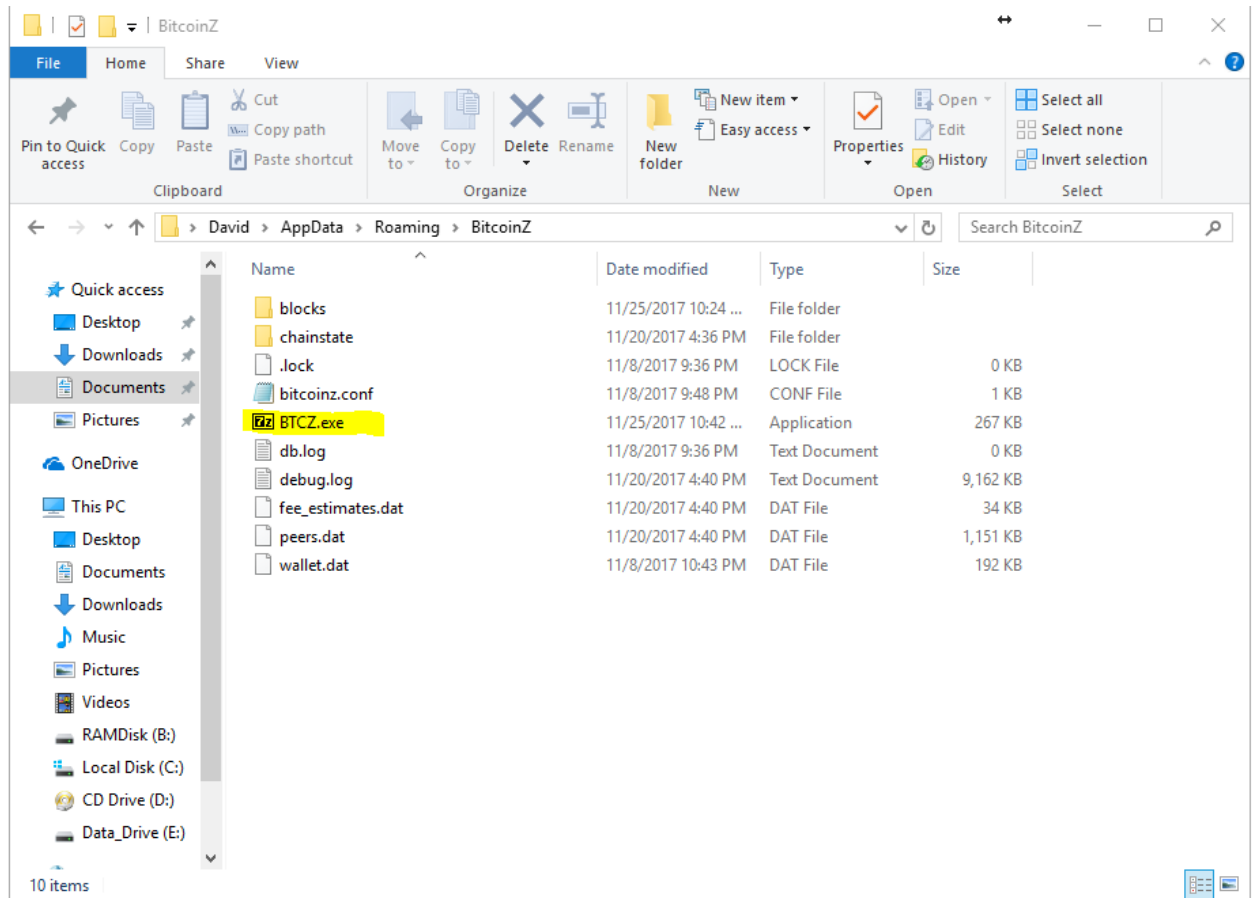
E. You will now notice that a new file has been created within the "Bitcoinz" folder. This is the encrypted zip file containing your "wallet.dat" file. In this case, we named this file "BTCZ.exe" We will now test to confirm that the file was indeed successfully compressed and accessible before deleting the plaintext "wallet.dat"

Download 7-Zip 16.04 (2016-10-04) for V

Link	Type	Windows
Download	.exe	32-bit x86	7-Zi

Open with
7-Zip ＞
CRC SHA ＞

Scan for viruses
Check reputation in KSN
Kaspersky Application Advisor

Share with ＞
Add to archive...
Add to "wallet.rar"
Compress and email...
Compress to "wallet.rar" and email
Scan with Malwarebytes
Restore previous versions
PowerISO ＞

Send to ＞

Cut
Copy

Create shortcut
Delete
Rename
Properties

BitcoinZ

File | Home | Share | View

Pin to Quick access | Copy | Paste | Cut | Copy path | Paste shortcut | Move to ▾ | Properties | Open ▾ | Edit | History

Clipboard | Open

＞ David ＞ AppData ＞ Roaming | Search Bi

Quick access
- Desktop 📌
- Downloads 📌
- Documents 📌
- Pictures 📌

OneDrive

This PC
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- RAMDisk (B:)
- Local Disk (C:)
- CD Drive (D:)
- Data_Drive (E:)

| Name	Size
blocks	
chainstate	
.lock	0 KB
bitcoinz.conf	1 KB
BTCZ.exe	267 KB
db.log	0 KB
debug.log	9,162 KB
fee_estimates.dat	34 KB
peers.dat	1,151 KB
wallet.dat	192 KB

10 items | 1 item selected 192 KB

F. Rename the original "wallet.dat" file by right-clicking on the file, and then clicking "Rename" then rename the file to "wallet.dat_". When prompted to confirm the change, click "Yes". This is to preserve the original wallet while we test the encrypted file and confirm it is working. Should we run into any issue, we can always revert back the "wallet.dat_" file back to "wallet.dat".
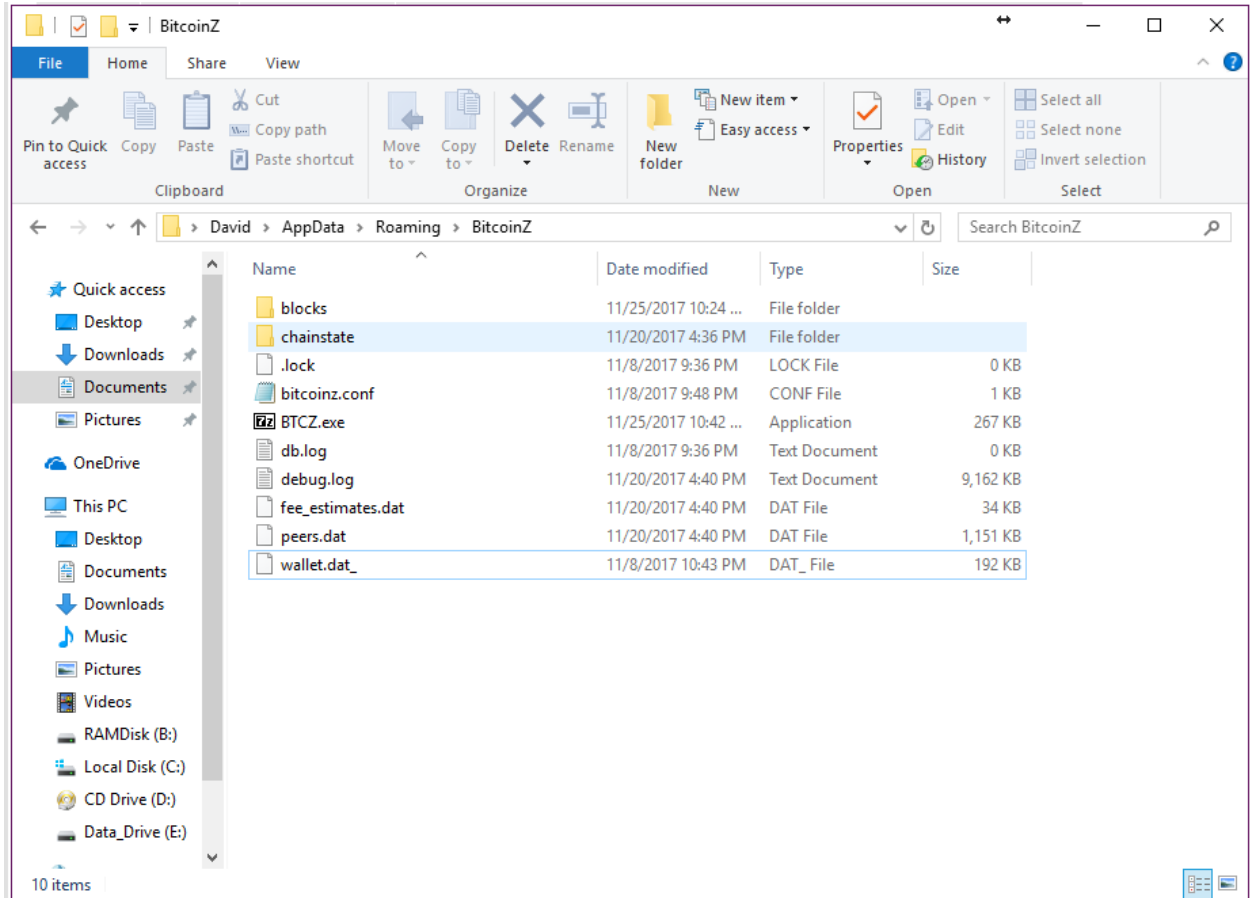
G. Once this is done, we are now ready to test the file. At this point you should only have a "wallet.dat_" file and not "wallet.dat".
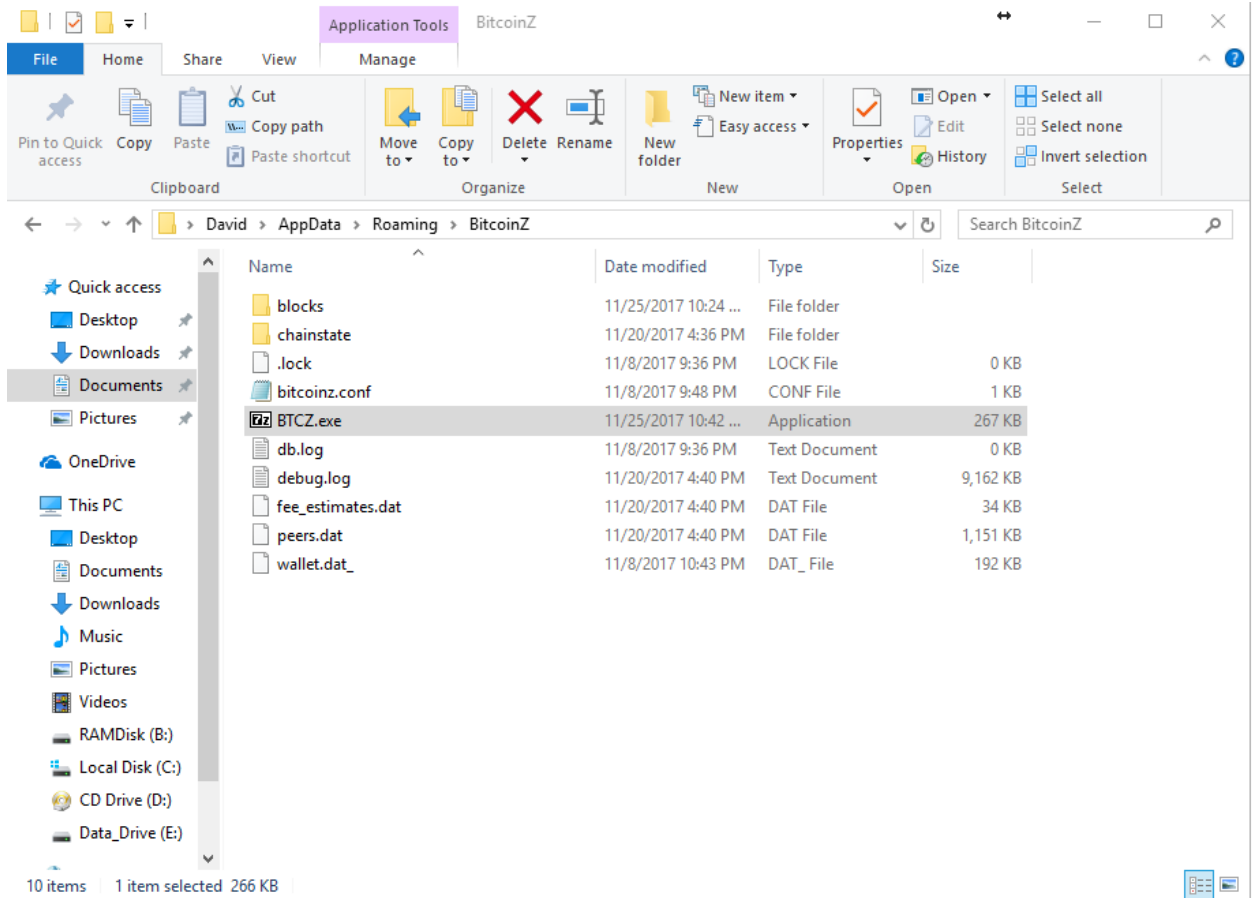
H. Double-click on "BTCZ.exe" to execute the self-extractor and begin the extraction process to restore the compressed "wallet.dat" file.
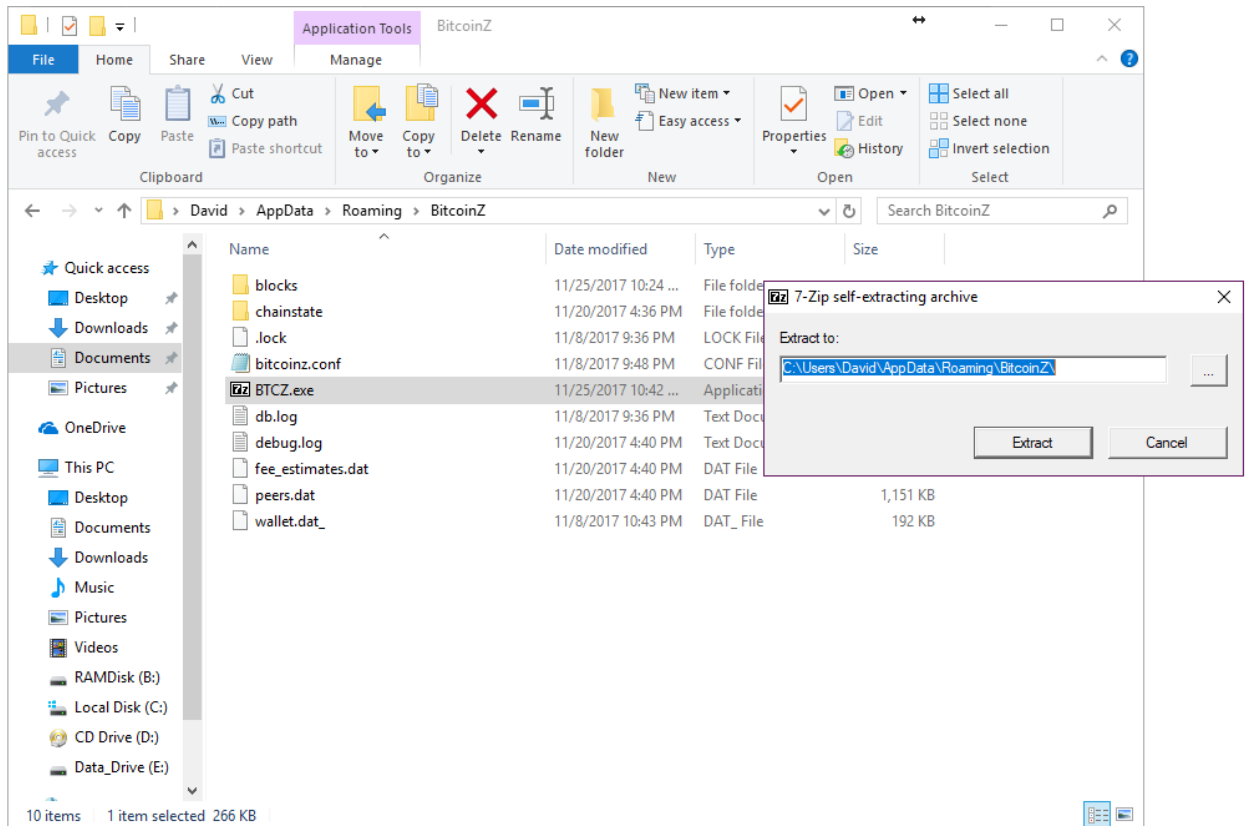
I. You are then prompted with the "Extract to" dialog. Since we are already in the appropriate folder, you do not need to change this. Simply click "Extract".
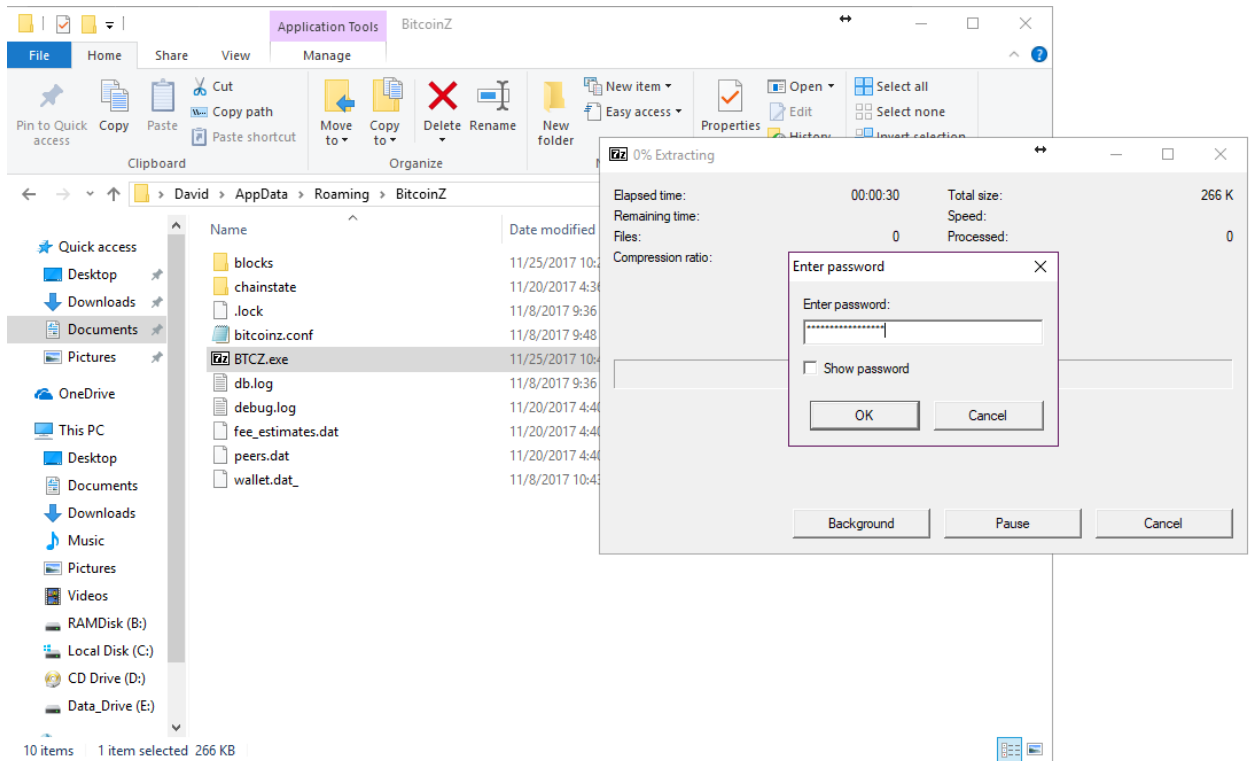
J. You will then be prompted with the "Enter password" dialog. Enter your previously used password during the creation of the zip file and click "OK". If the password is correct you will see a new copy of the "wallet.dat" inside the explorer window along with the original renamed "wallet.dat_".
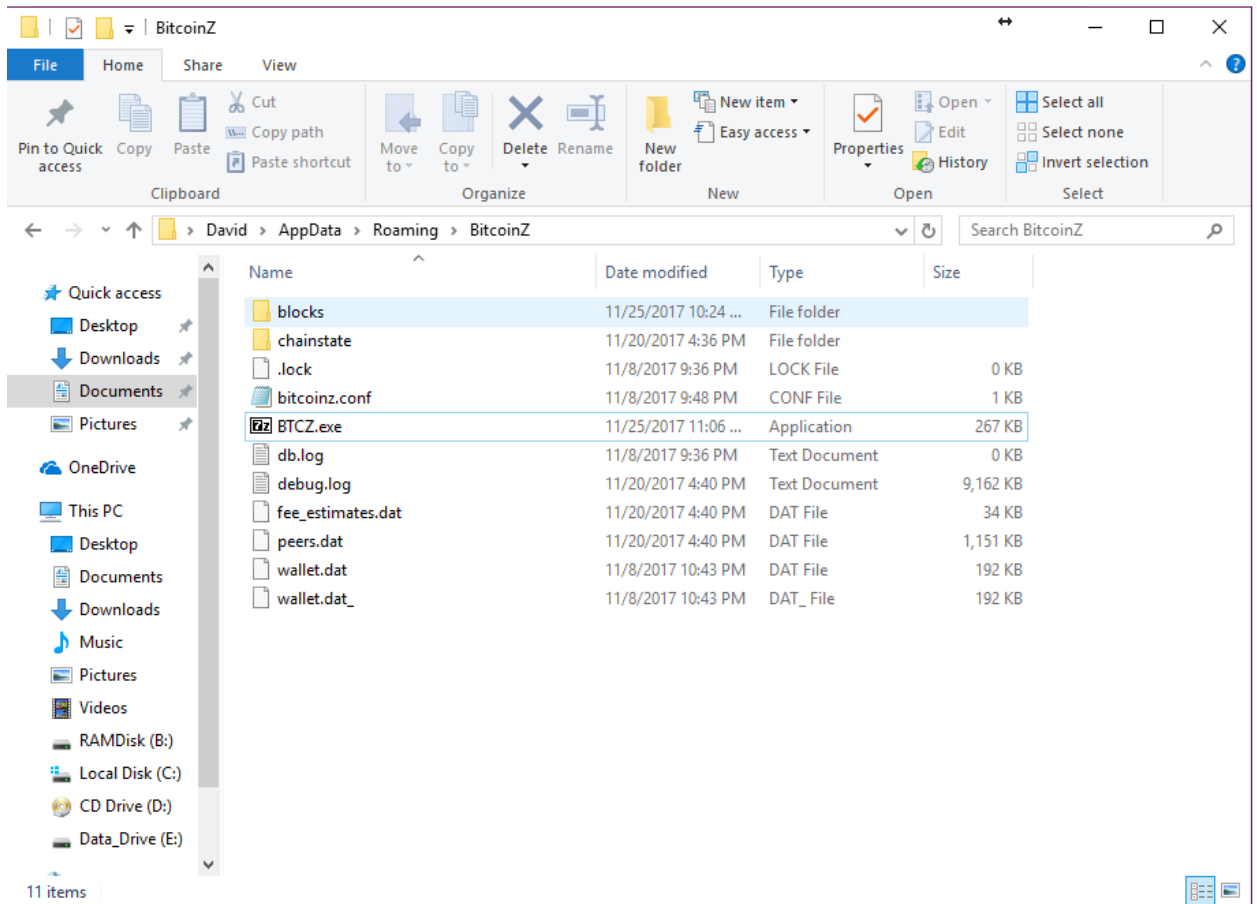
K. If everything is working correctly, as mentioned above, you should see both "wallet.dat" and "wallet.dat_" inside the folder. Now launch the BitcoinZ wallet, and confirm that the balance, and addresses are correct inside the wallet.
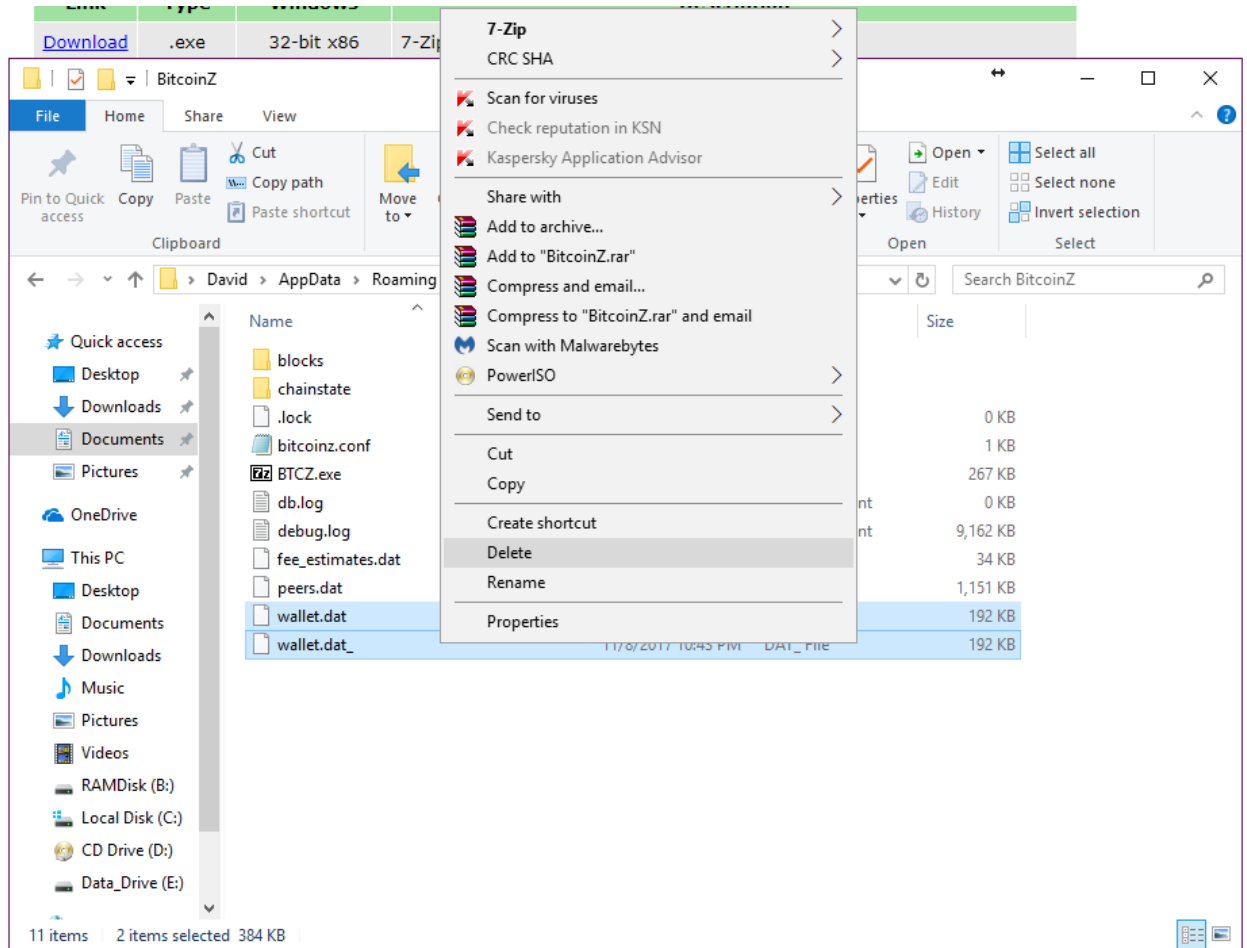
L. If everything is correct, you have successfully created an encrypted zip file. After you have backed up your "BTCZ.exe" file you may now safely close out of the wallet, and delete the unsecure "wallet.dat" and "wallet.dat_" files.

Please note, that whenever you wish to access your wallet, you will need to to go back through and execute steps H-L in order to restore the wallet for use using the "BTCZ.exe" file. During subsequent uses "wallet.dat_" can be ignored as they will no longer be present.

(Note: It is **HIGHLY** recommended that you store the "BTCZ.exe" in multiple locations to ensure that your wallet can be restored in the event of data loss on your PC. Also be sure to write down the password used to encrypt the zip file and put it in a safe place. You will lose your coin if you lose either the "BTCZ.exe" file or your password.)

(Security Note: While this procedure will most definitely help with protecting your wallet from scripted attacks during times of non-use. It DOES NOT protect against active malware threats that may exist on your computer at the time of creation or unzip. Be sure to confirm that the computer you are on is clean BEFORE unzipping the file, since the file is exposed and vulnerable to compromise during use.)

You have now successfully secured your wallet.dat file when not in use.