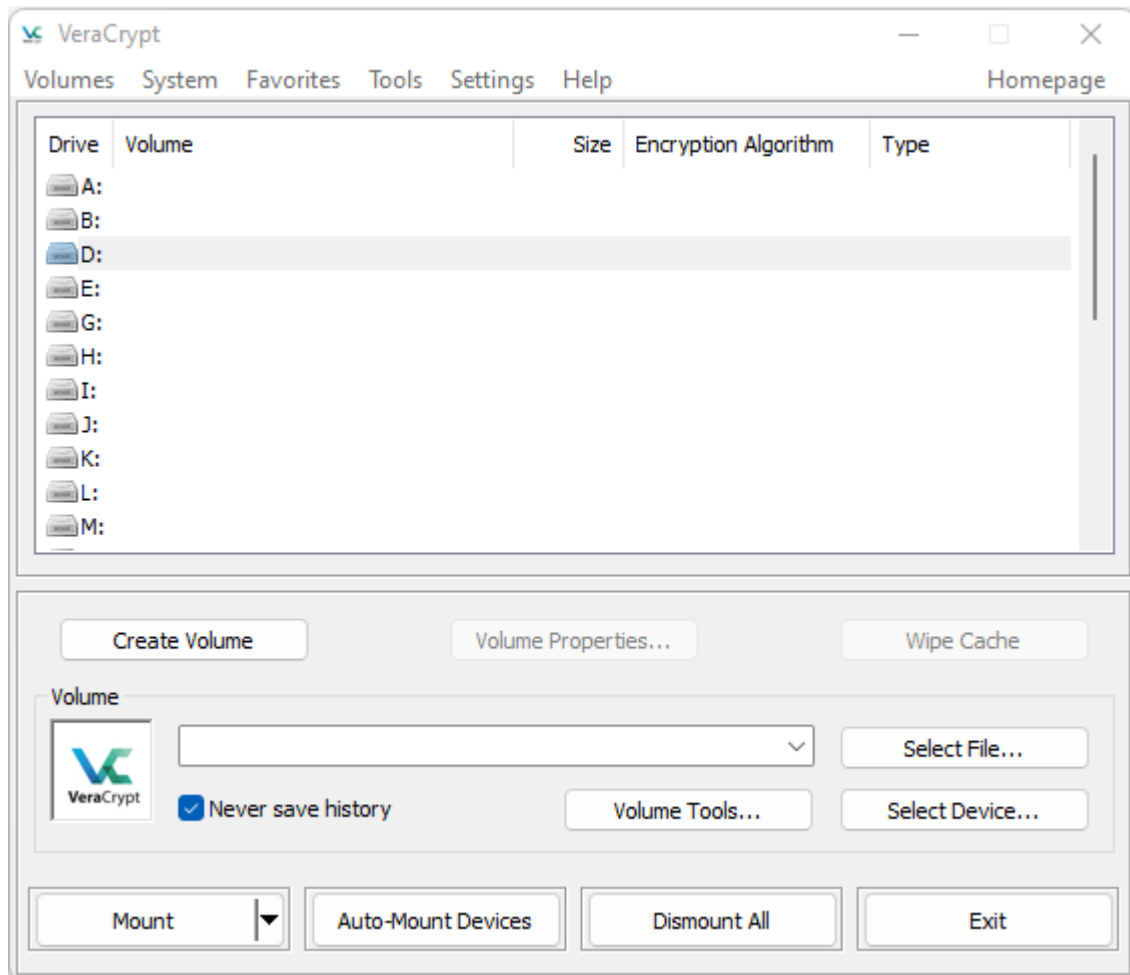


# Cyber Security and Forensics

## Practical 10: Mounting Files with VeraCrypt

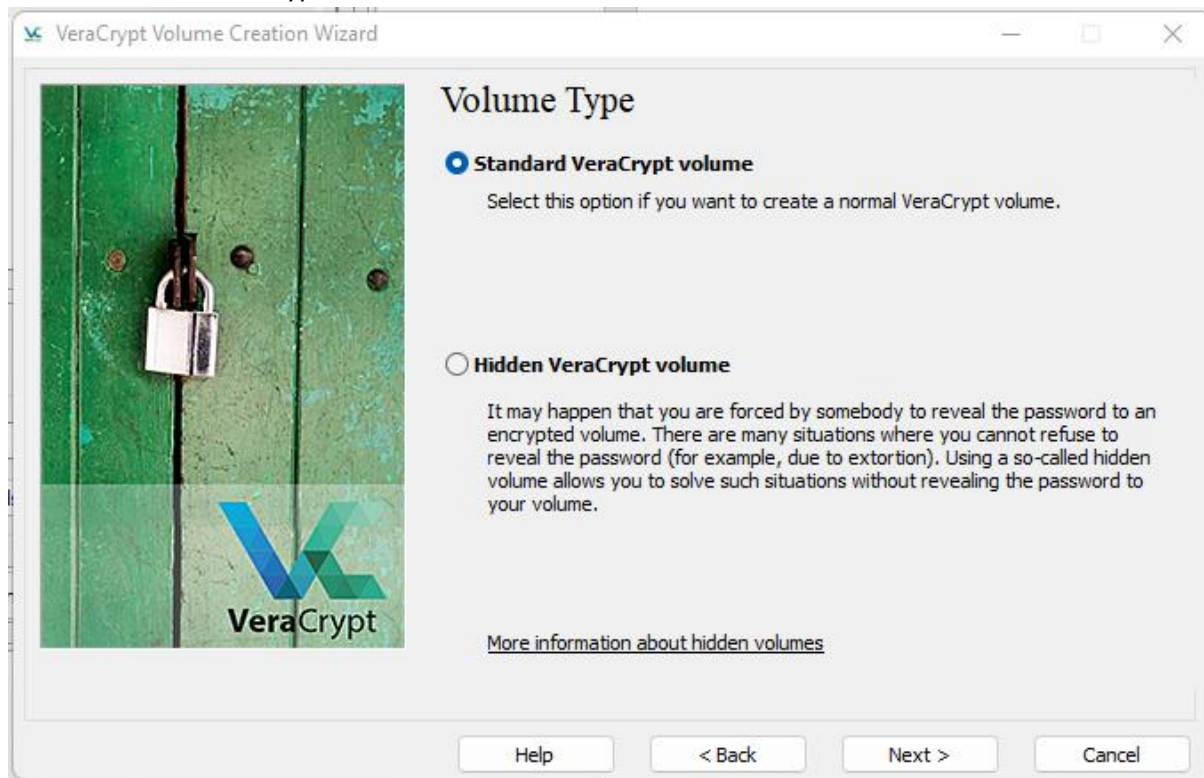
### 1. Download VeraCrypt



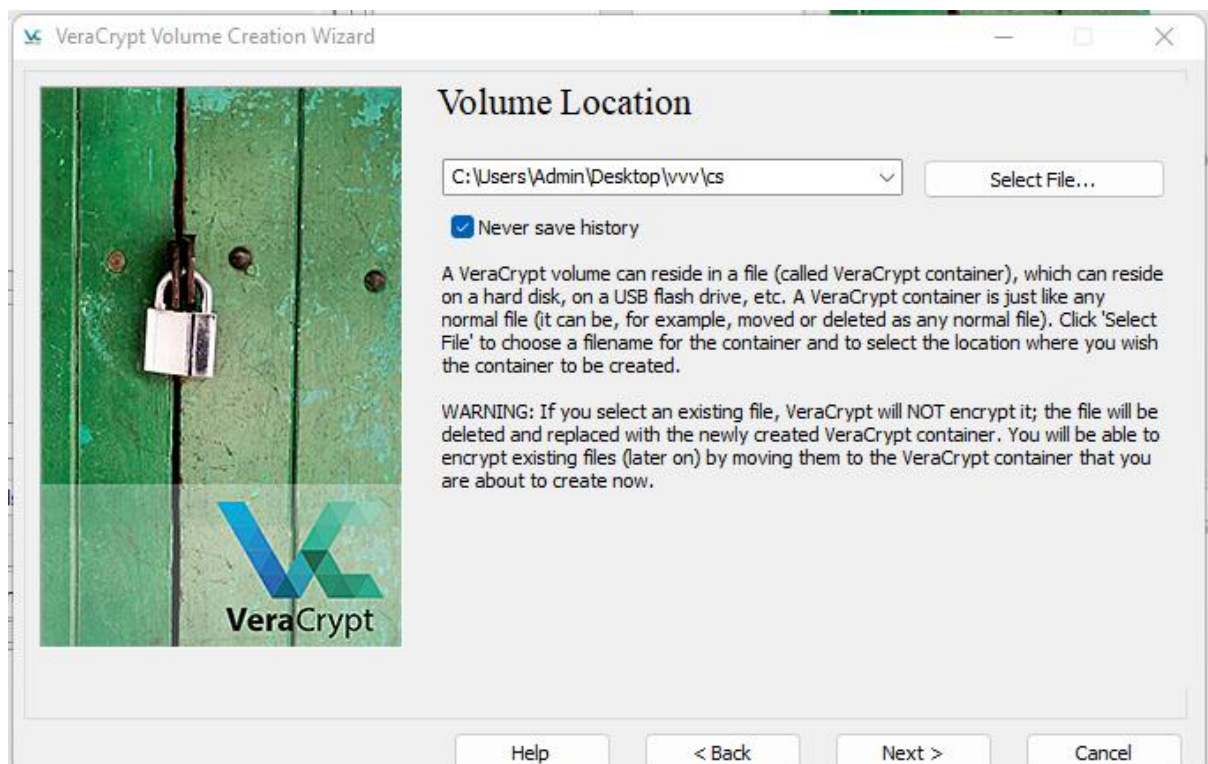
### 2. create volume



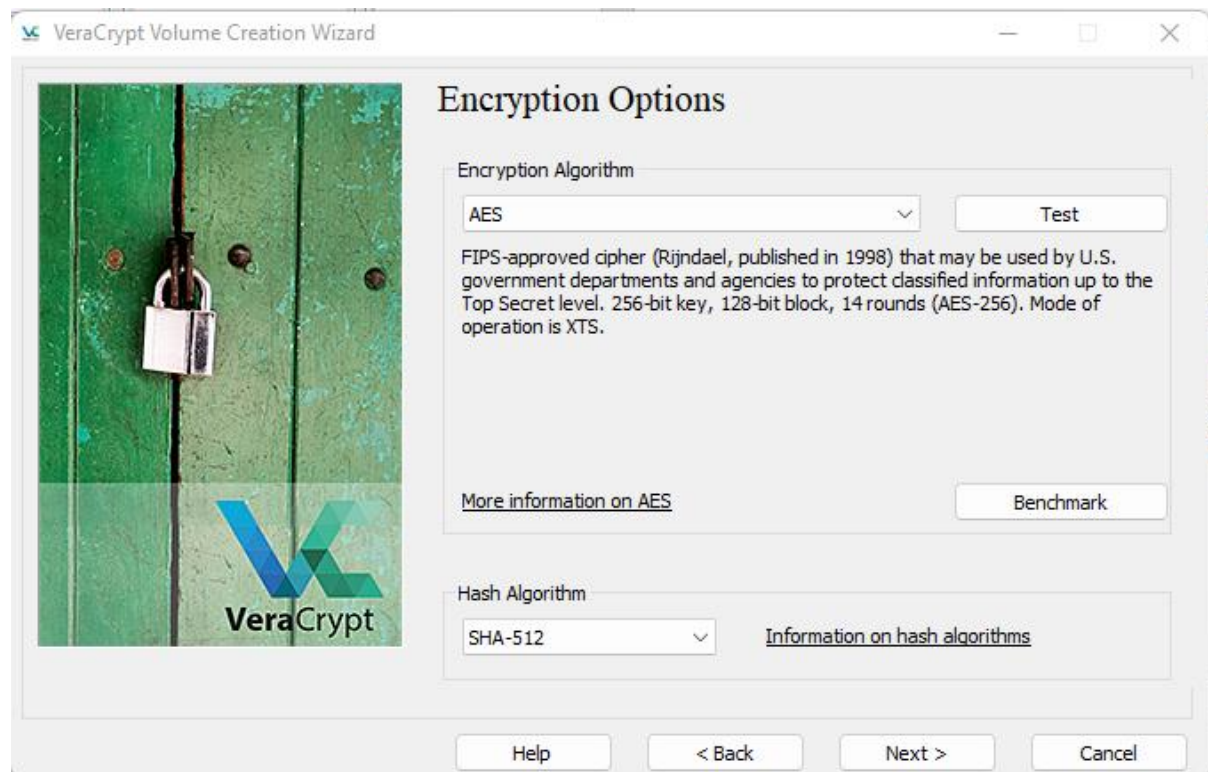
3. select volume type



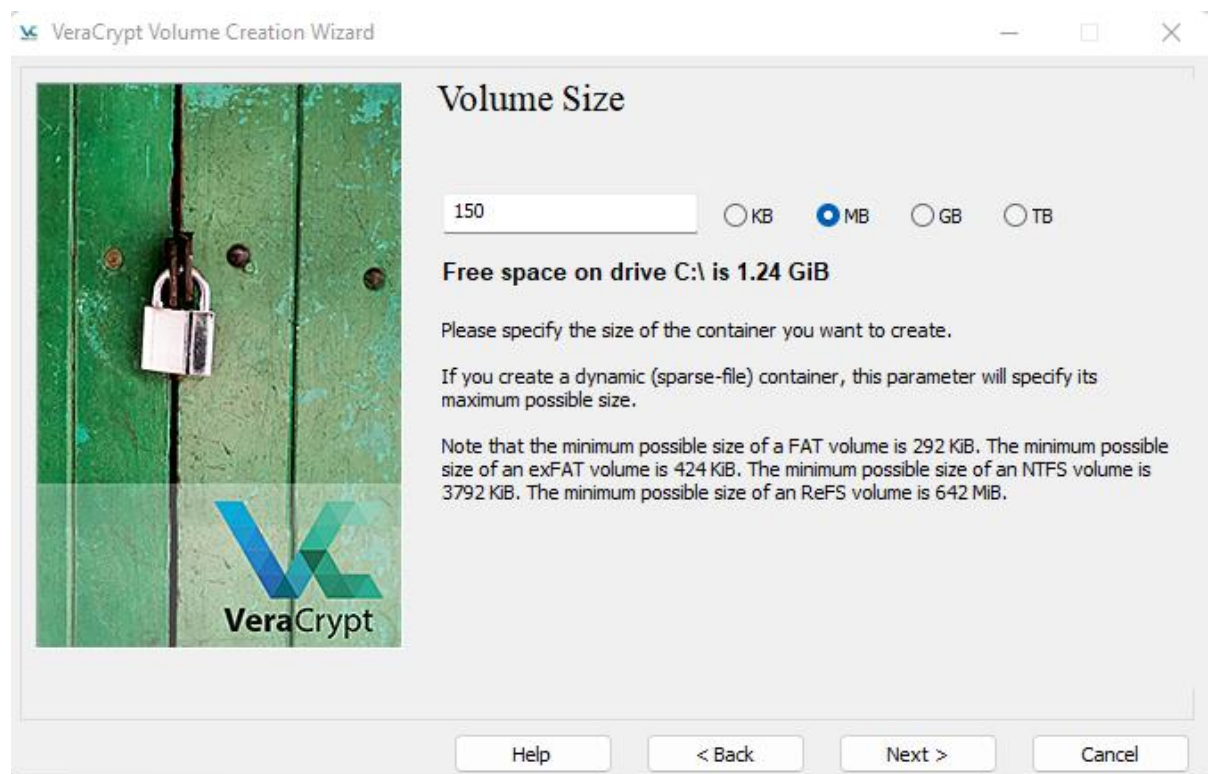
5. select location



6. select encryption option

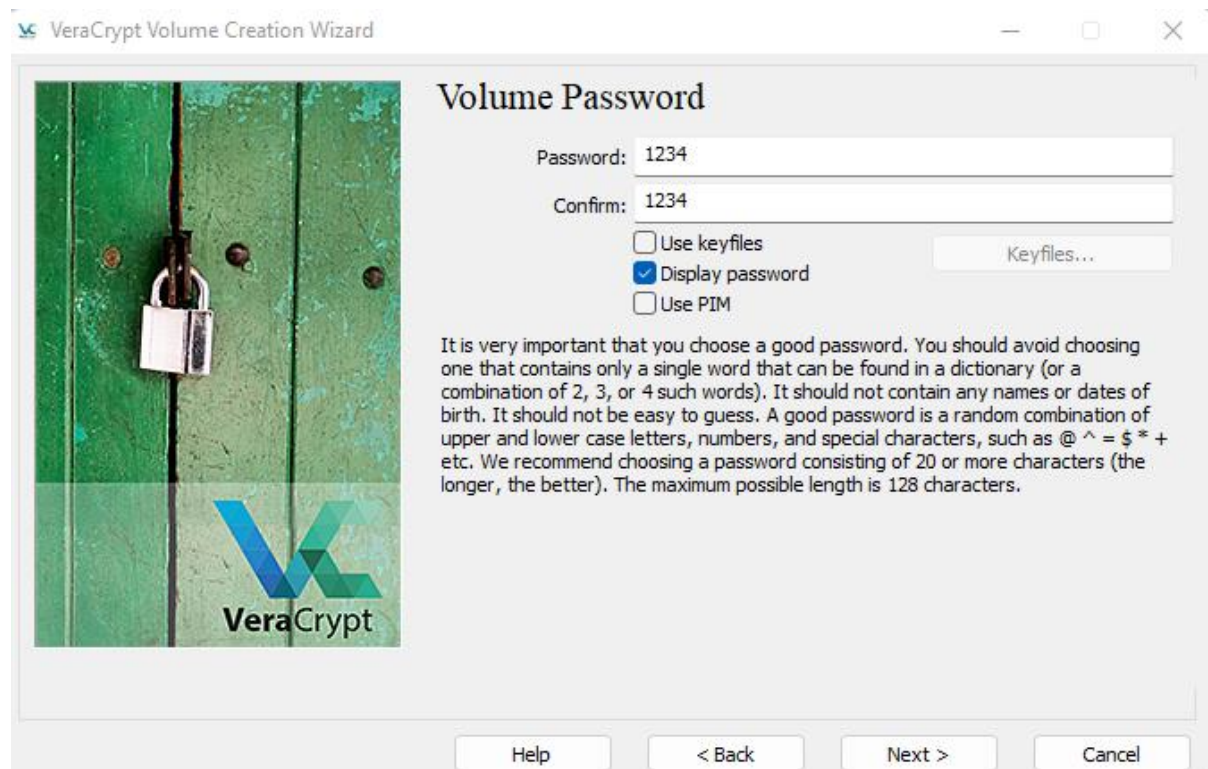


7. select volume size





8. set password



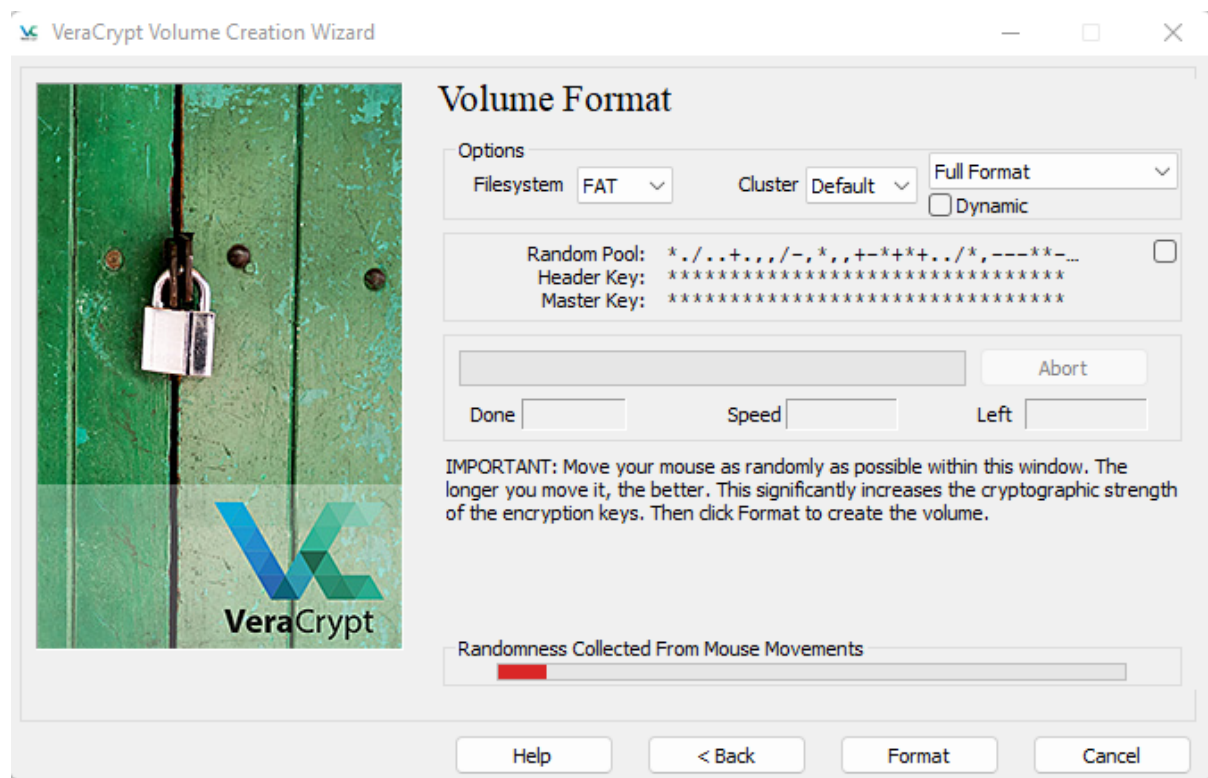
The screenshot shows the 'Volume Password' step of the VeraCrypt Volume Creation Wizard. On the left is a green wooden door with a silver padlock and the VeraCrypt logo. The main area contains the following fields and options:

- Password:** 1234
- Confirm:** 1234
- ☐ Use keyfiles (with a 'Keyfiles...' button)
- ☒ Display password
- ☐ Use PIM

A text box provides instructions: "It is very important that you choose a good password. You should avoid choosing one that contains only a single word that can be found in a dictionary (or a combination of 2, 3, or 4 such words). It should not contain any names or dates of birth. It should not be easy to guess. A good password is a random combination of upper and lower case letters, numbers, and special characters, such as @ ^ = \$ \* + etc. We recommend choosing a password consisting of 20 or more characters (the longer, the better). The maximum possible length is 128 characters."

At the bottom are buttons for 'Help', '< Back', 'Next >', and 'Cancel'.

9. format volume key



The screenshot shows the 'Volume Format' step of the VeraCrypt Volume Creation Wizard. On the left is the same green wooden door with a padlock and the VeraCrypt logo. The main area contains the following options and fields:

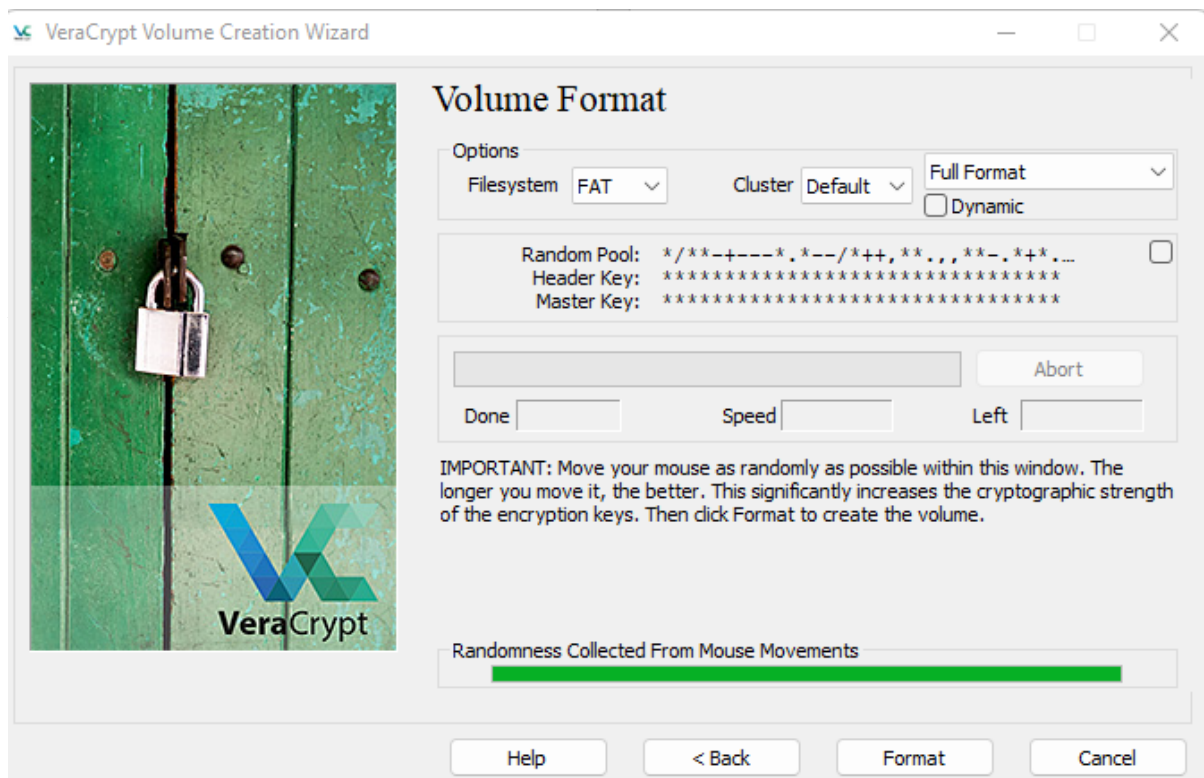
- Options:**
  - Filesystem:** FAT
  - Cluster:** Default
  - Format:** Full Format (with a 'Dynamic' checkbox)
- Random Pool:** \*. / . . + . . . , / - , \* , , + - \* + \* . . . / \* , - - - \* - \_
- Header Key:** \*\*\*\*\*
- Master Key:** \*\*\*\*\*
- ☐ (checkbox next to the random pool text)

Below these are three progress bars labeled 'Done', 'Speed', and 'Left', each with an 'Abort' button next to it.

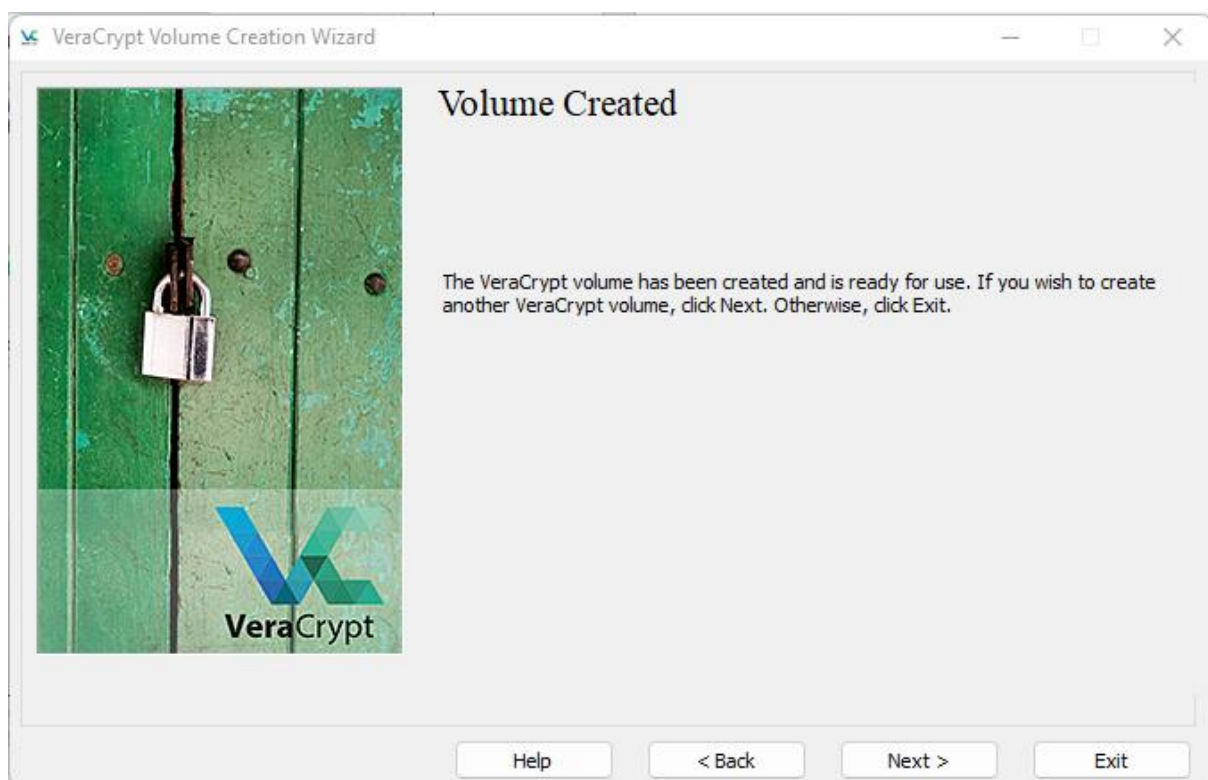
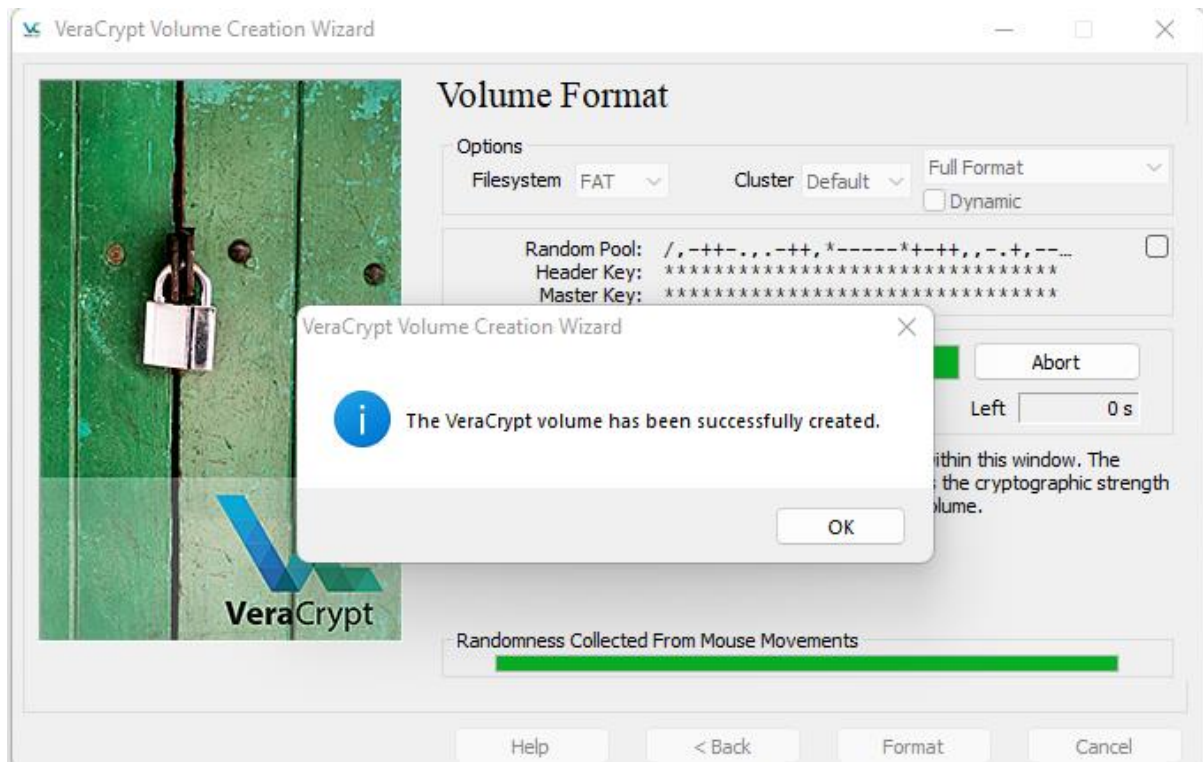
An important note states: "IMPORTANT: Move your mouse as randomly as possible within this window. The longer you move it, the better. This significantly increases the cryptographic strength of the encryption keys. Then click Format to create the volume."

At the bottom is a 'Randomness Collected From Mouse Movements' progress bar.

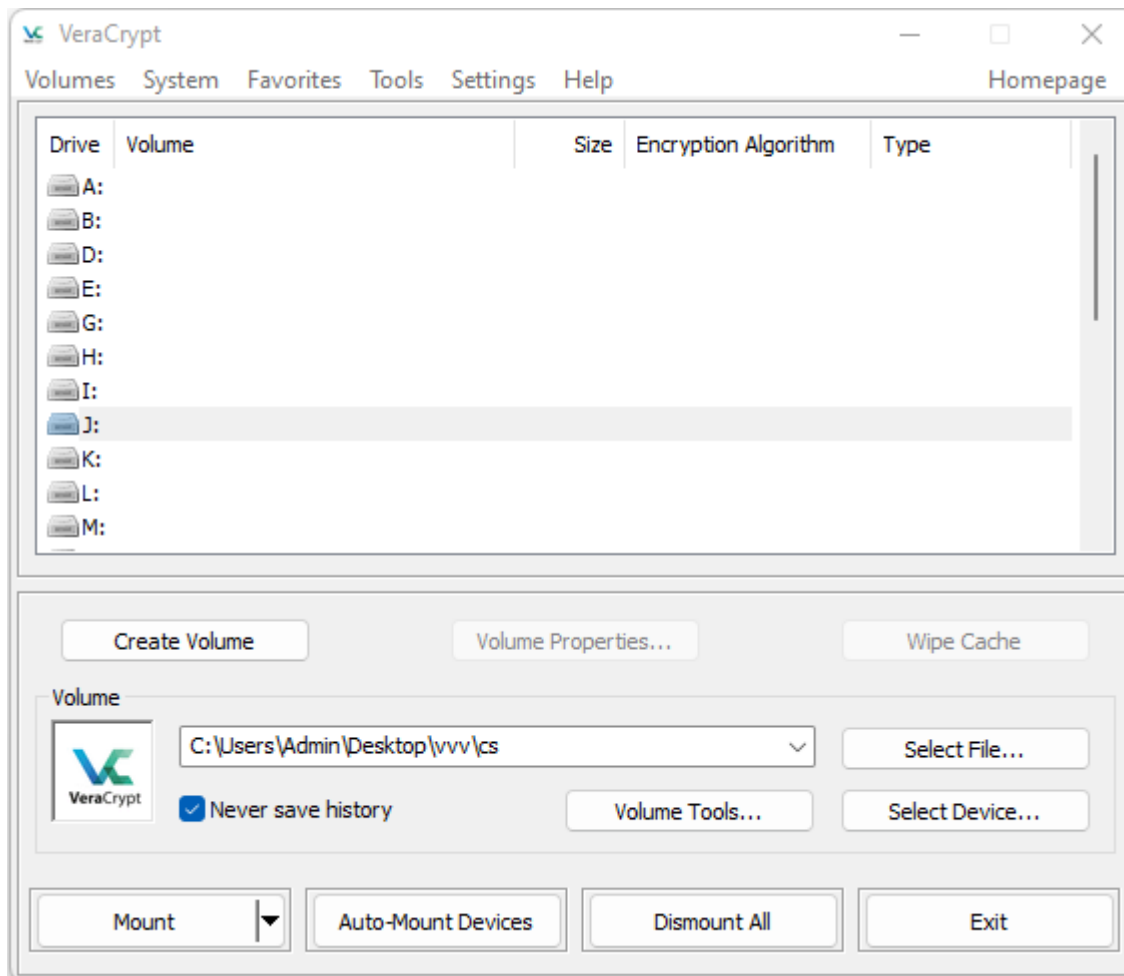
At the bottom are buttons for 'Help', '< Back', 'Format', and 'Cancel'.



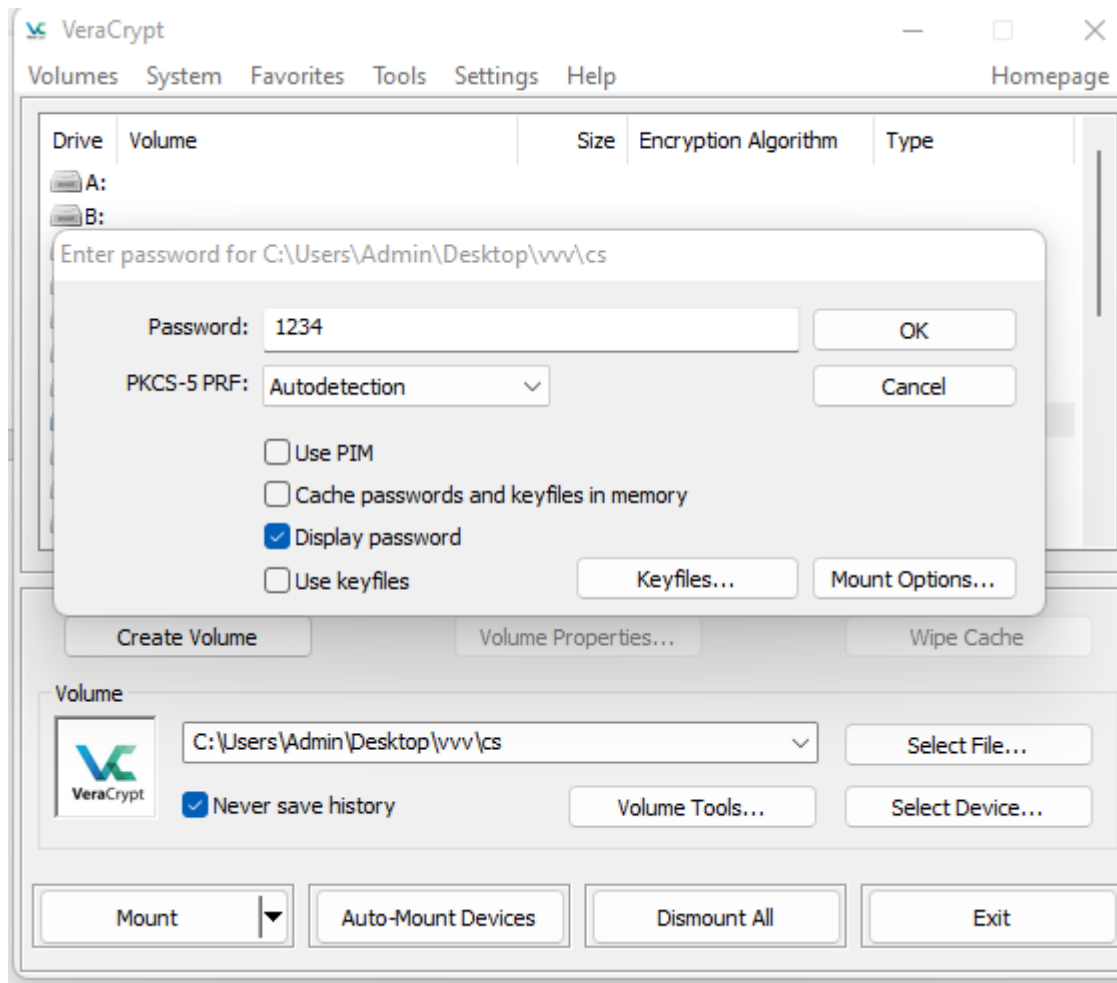
10. volume is created



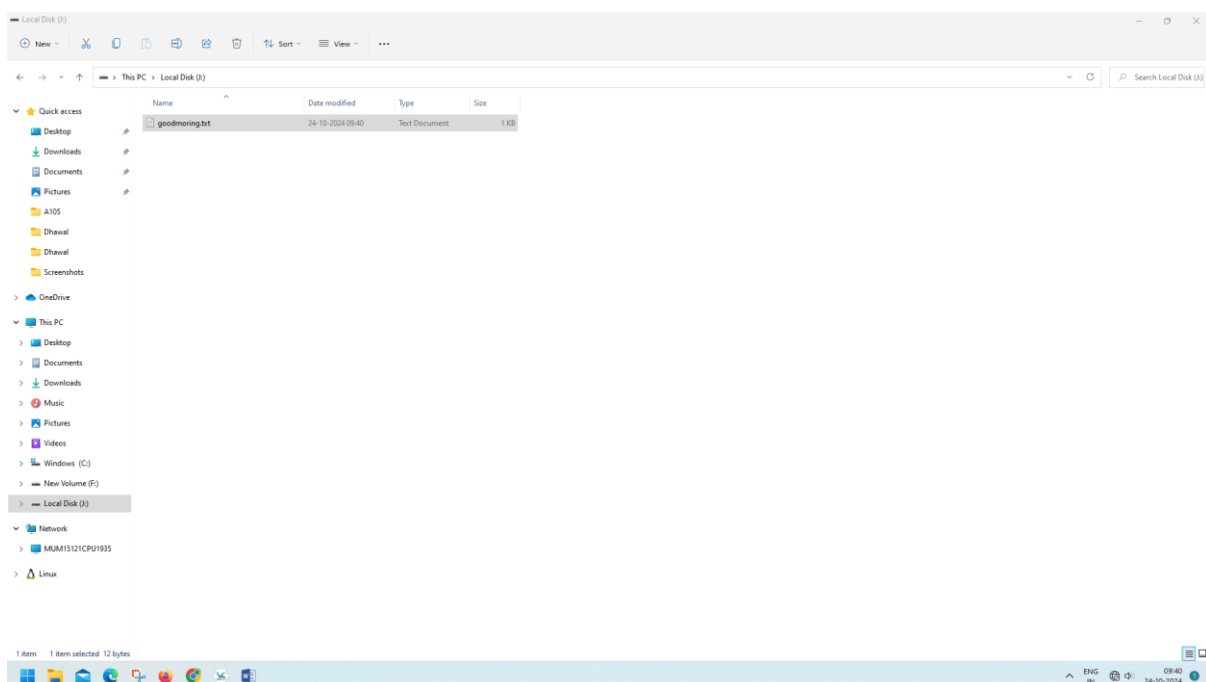
11. select the volume file location



12. select mount and enter password

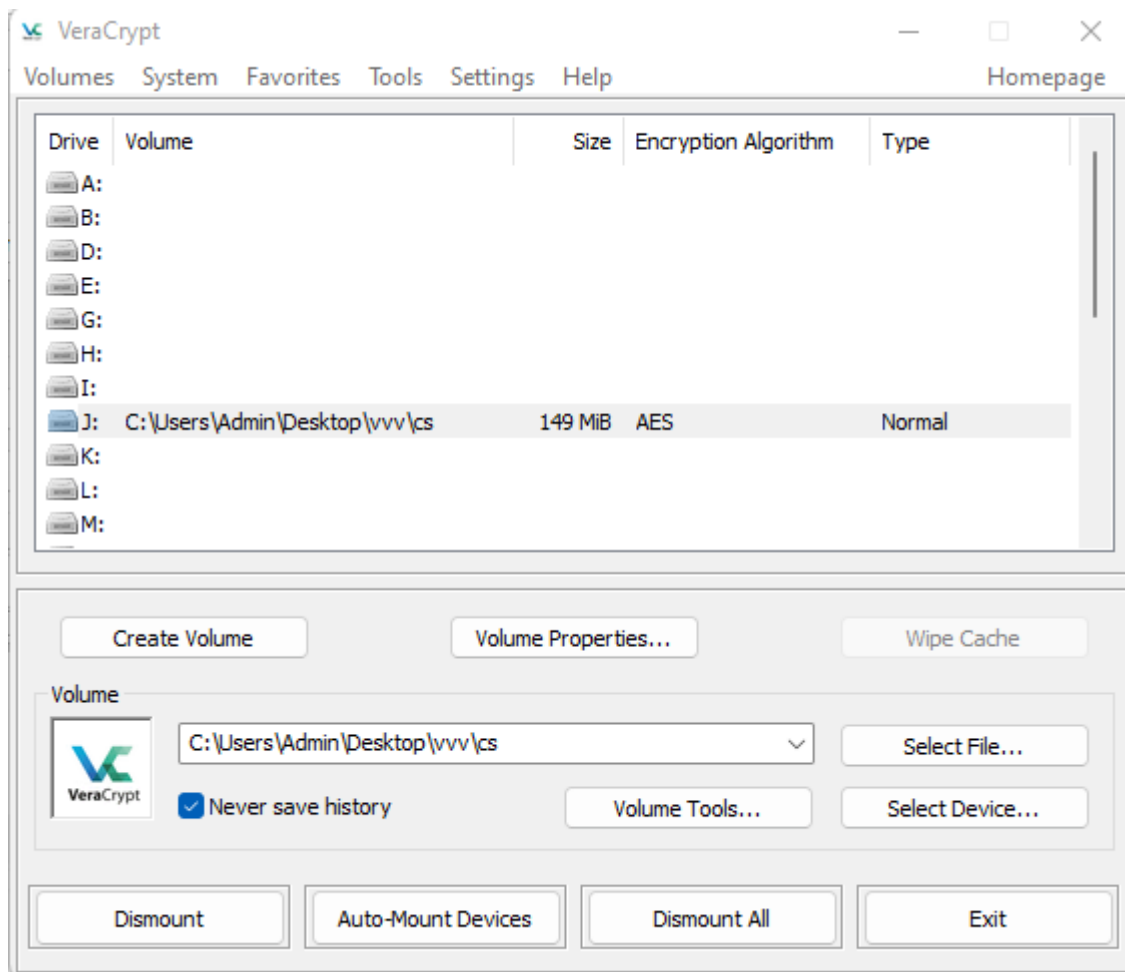


13. create a file in the create volume

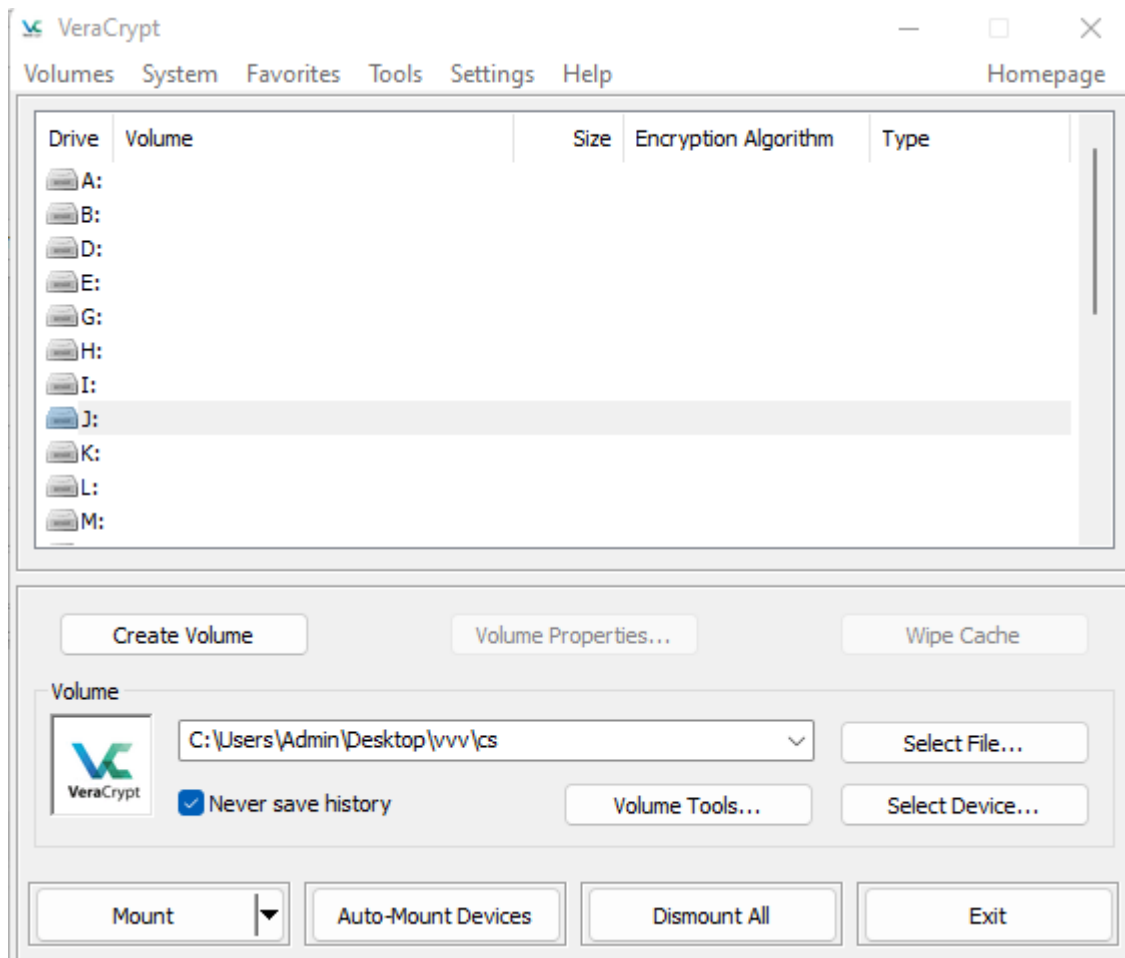




14. it is visible that j is created



15. Now dismount the volume



16. J is not available

