

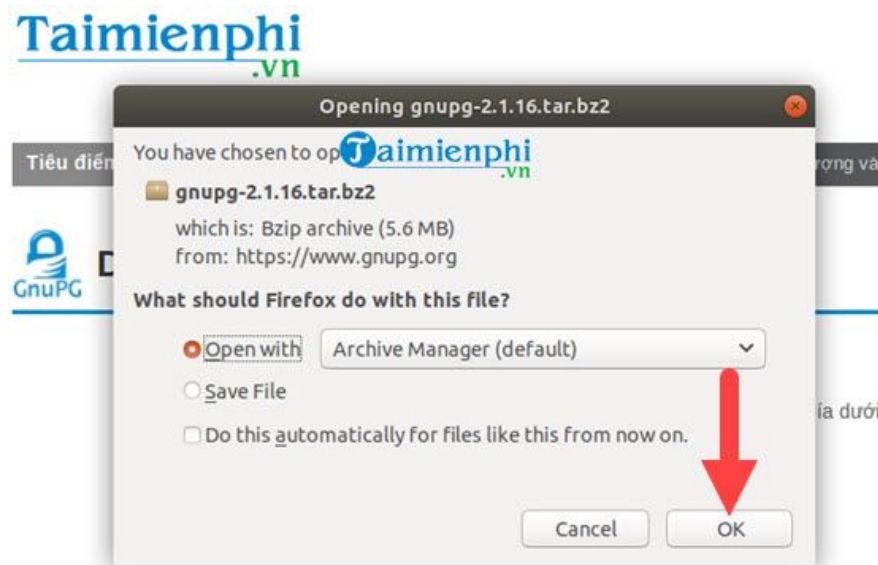
# Instructions on how to encrypt files and folders on Ubuntu

Ubuntu possesses many advanced security features that users may not know about. For example, LibreOffice users can encrypt files and folders on Ubuntu extremely simply but extremely securely. So what is that feature and how to use it on Ubuntu for files and folders?

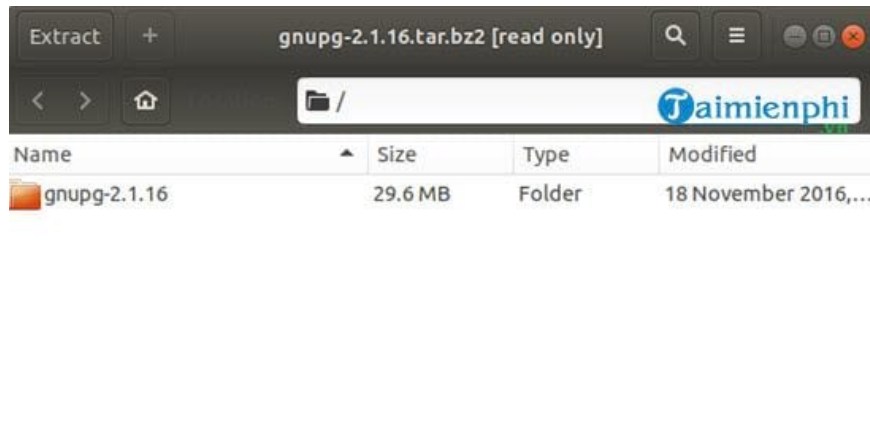
If you are familiar with Ubuntu, you will see that there are many things on Ubuntu that are many times better than Windows 7 and 10. Of course we are not talking about games because there is no operating system better suited for gaming than Windows. However, the way **to encrypt files and folders on Ubuntu** is different. On Ubuntu there are many security methods to help you protect your privacy to the maximum.

## Instructions for encrypting files and folders on Ubuntu

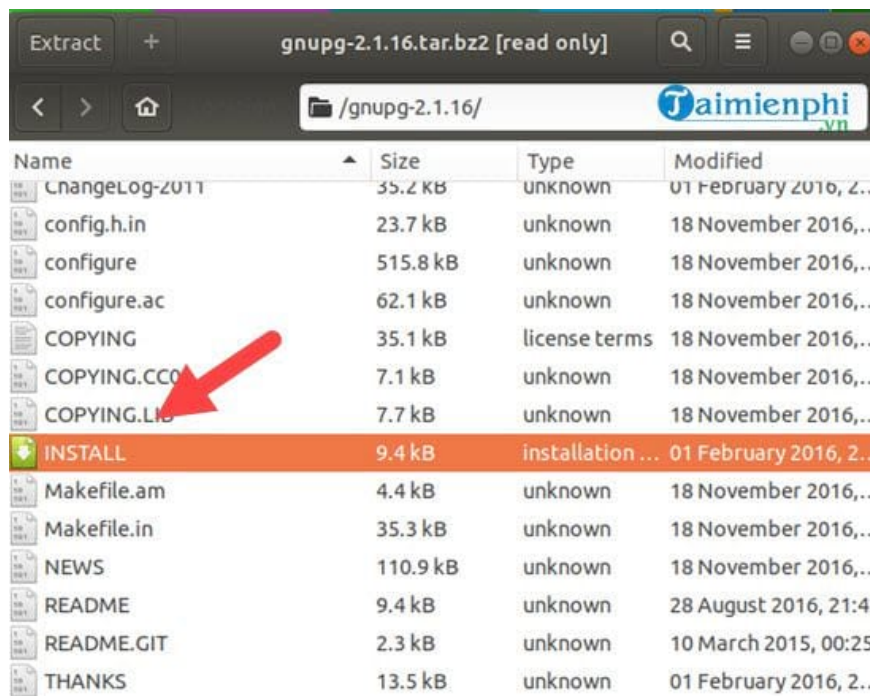
*Step 1:* To encrypt files and folders on Ubuntu, we first need to install GnuPG on Ubuntu, download **GnuPG** here.



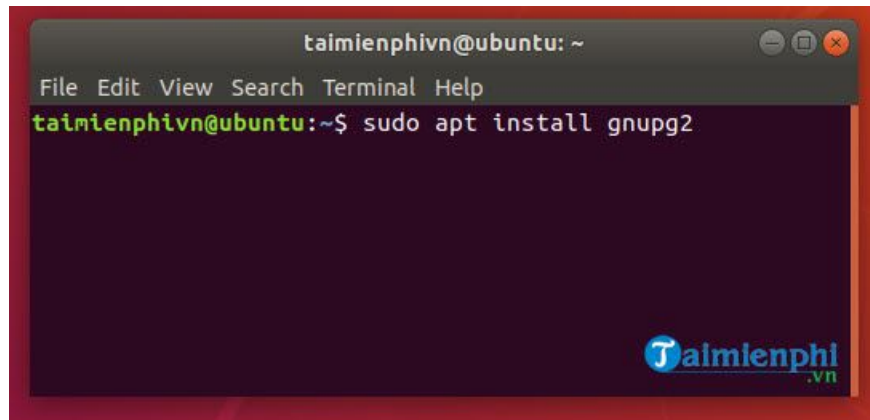
*Step 2:* Click on the GnuPG folder to extract it on Ubuntu.



*Step 3:* Continue clicking Install to install this software on Ubuntu. After installation is complete you can close it.

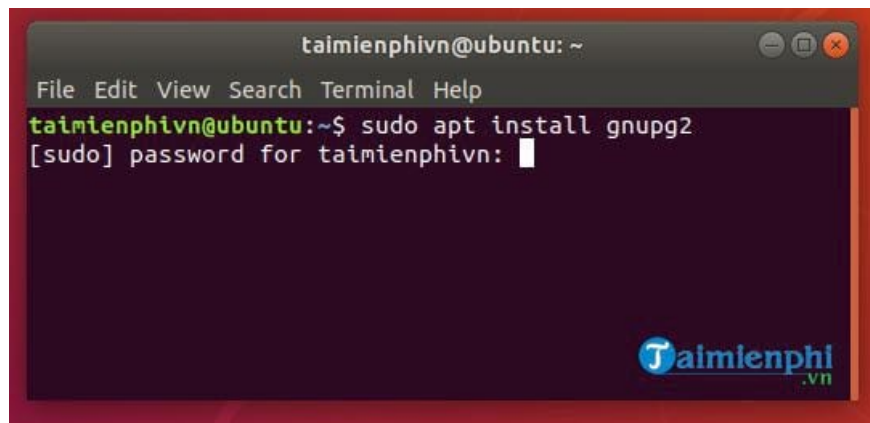


*Step 4:* In case you cannot install Gnupg, press the key combination **Ctrl + ALT + T** to open the Terminal window, here you type: **sudo apt install gnupg2**



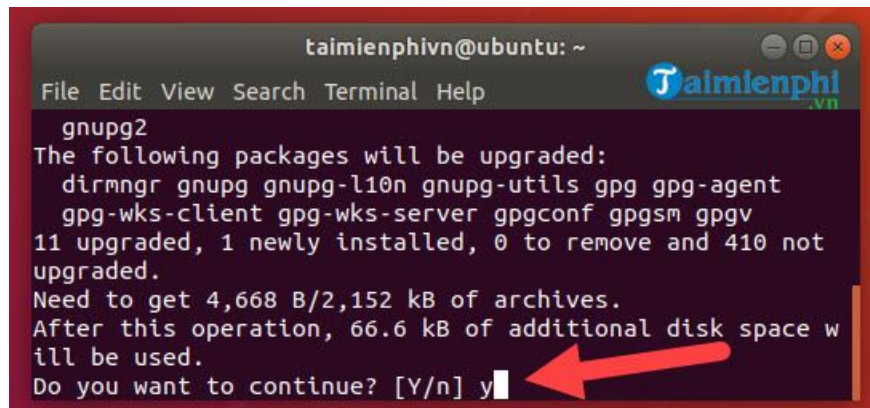
```
taimienphivn@ubuntu: ~  
File Edit View Search Terminal Help  
taimienphivn@ubuntu:~$ sudo apt install gnupg2
```

Type the password before confirming the installation. When typing the password, the characters will not appear.



```
taimienphivn@ubuntu: ~  
File Edit View Search Terminal Help  
taimienphivn@ubuntu:~$ sudo apt install gnupg2  
[sudo] password for taimienphivn: █
```

Step 5: If the system asks if you want to continue> **press Y** then enter to continue the installation.



```
taimienphivn@ubuntu: ~  
File Edit View Search Terminal Help  
gnupg2  
The following packages will be upgraded:  
  dirmngr gnupg gnupg-l10n gnupg-utils gpg gpg-agent  
  gpg-wks-client gpg-wks-server gpgconf gpgsm gpgv  
11 upgraded, 1 newly installed, 0 to remove and 410 not  
upgraded.  
Need to get 4,668 B/2,152 kB of archives.  
After this operation, 66.6 kB of additional disk space will  
be used.  
Do you want to continue? [Y/n] y
```

Step 6: After installation is complete, to see the list of encryption methods, run the command below: **gpg2 --version**

```
taimienphivn@ubuntu: ~
File Edit View Search Terminal Help
Processing triggers for man-db (2.8.3-2) ...
Setting up dirmngr (2.2.4-1ubuntu1.2) ...
Setting up gpg (2.2.4-1ubuntu1.2) ...
Setting up gpg-wks-server (2.2.4-1ubuntu1.2) ...
Setting up gpg-wks-client (2.2.4-1ubuntu1.2) ...
Setting up gnupg (2.2.4-1ubuntu1.2) ...
Setting up gnupg2 (2.2.4-1ubuntu1.2) ...
taimienphivn@ubuntu:~$ gpg2 --version
```

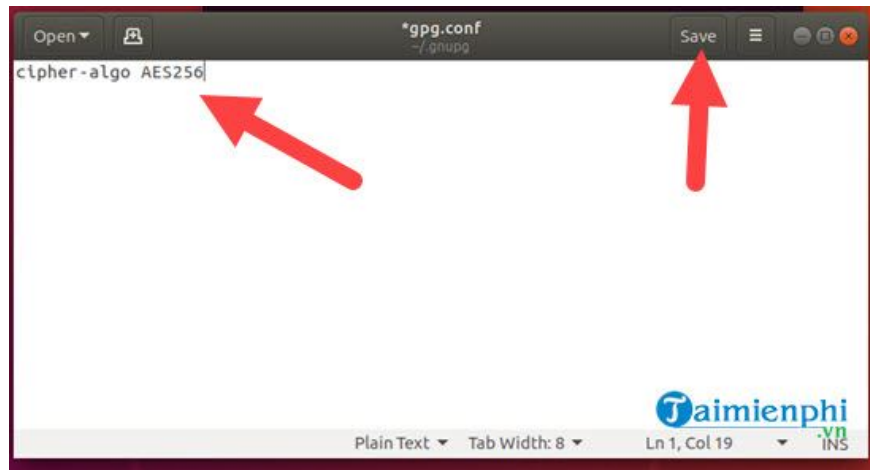
The AES algorithm in this list is **AES128** . You can select another encryption algorithm as the default by adding a line to configure the file that GnuPG uses when running. The configuration file is called `gpg.conf`, located in a hidden folder called `.gnupg` in the Home directory.

```
taimienphivn@ubuntu: ~
File Edit View Search Terminal Help
Home: /home/taimienphivn/.gnupg
Supported algorithms:
Pubkey: RSA, ELG, DSA, ECDH, ECDSA, EDDSA
Cipher: IDEA, 3DES, CAST5, BLOWFISH, AES, AES192, AES256
, TWOFISH,
CAMELLIA128, CAMELLIA192, CAMELLIA256
Hash: SHA1, RIPEMD160, SHA256, SHA384, SHA512, SHA224
Compression: Uncompressed, ZIP, ZLIB, BZIP2
taimienphivn@ubuntu:~$
```

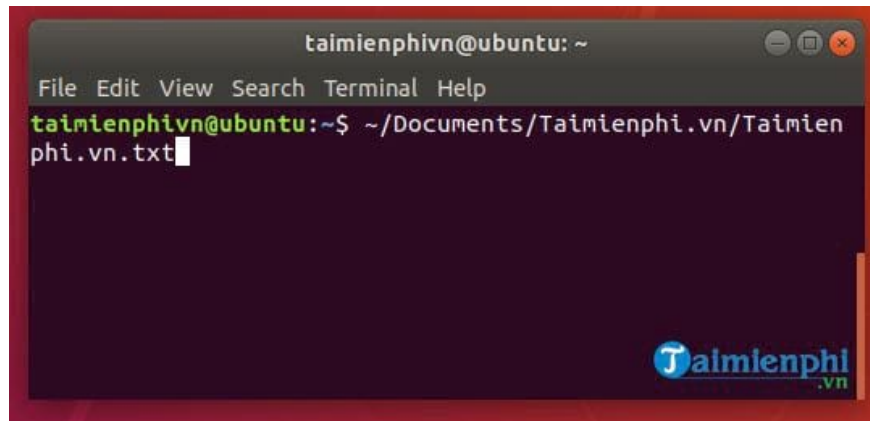
*Step 7:* The next step now is to edit the configuration file in gedit, run the command below in the Terminal window: **gedit ~/.gnupg/gpg.conf**

```
taimienphivn@ubuntu: ~
File Edit View Search Terminal Help
taimienphivn@ubuntu:~$ gedit ~/.gnupg/gpg.conf
```

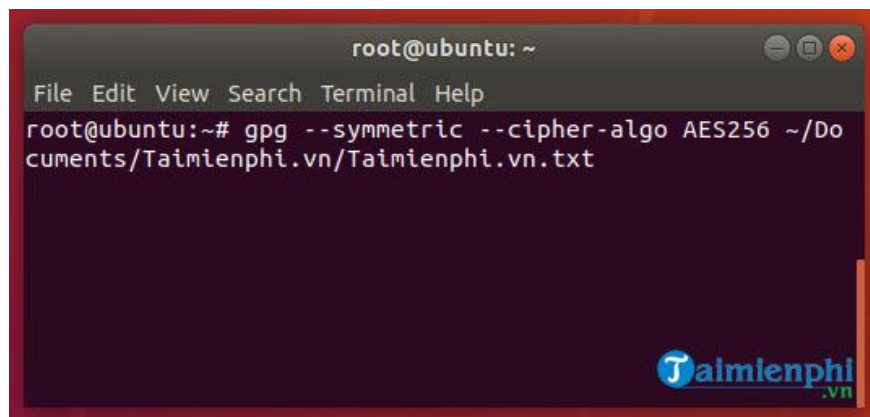
*Step 8:* When it opens, type **ciphe - algo AES256** and save it.



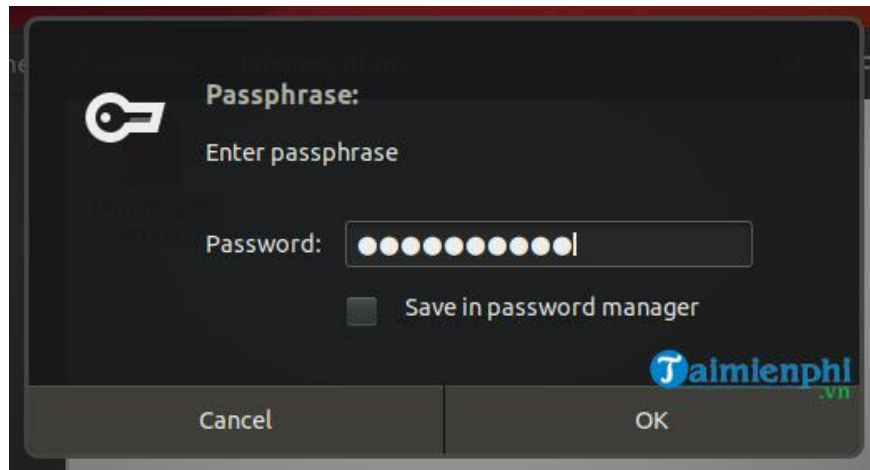
Step 9: Now we start encrypting files and folders on Ubuntu, for example encrypting with file - /Documents/Taimienphi.vn/Taimienphi.vn.txt



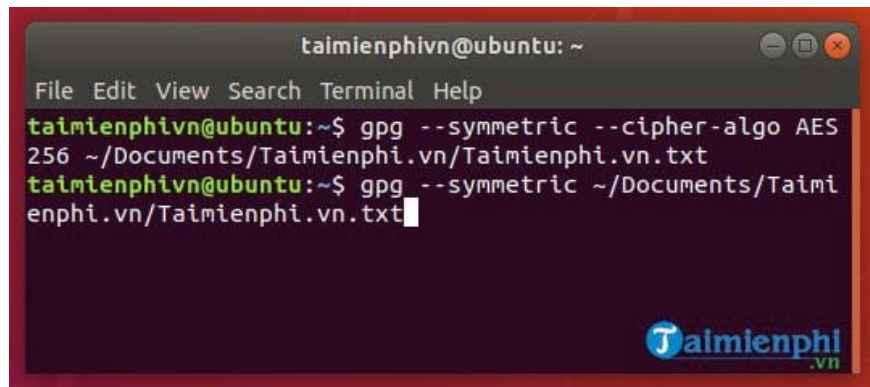
>> Type the command **gpg --symmetric --cipher-algo AES256 - /Documents/Taimienphi.vn/Taimienphi.vn.txt**



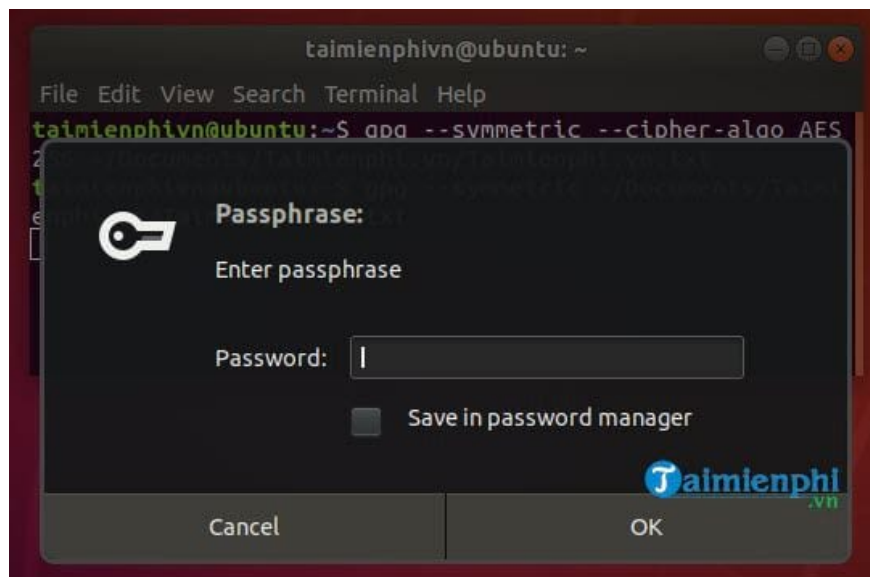
Then enter the password twice to confirm the password for that encrypted file.



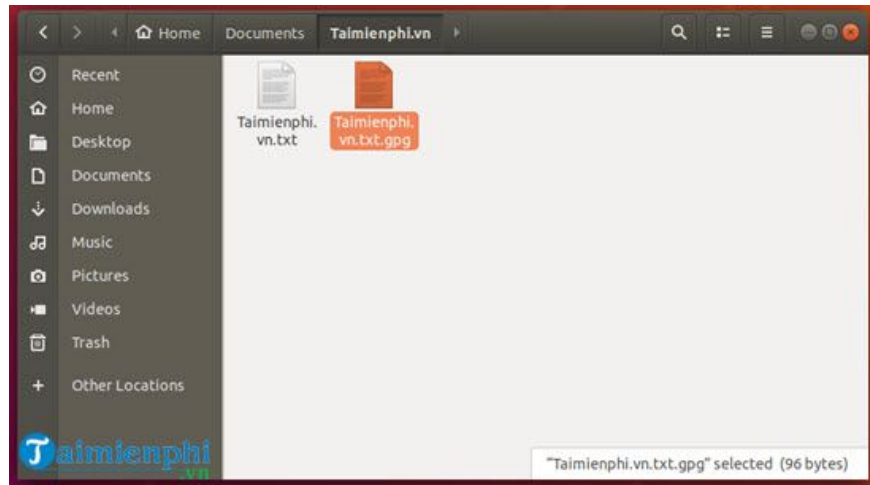
Step 10: After encrypting files and folders on Ubuntu, we can add a password to that encrypted file with the command **gpg --symmetric -/Documents/Taimienphi.vn/Taimienphi.vn.txt**



Step 11: Then enter the password to complete the process of encrypting files and folders on Ubuntu.



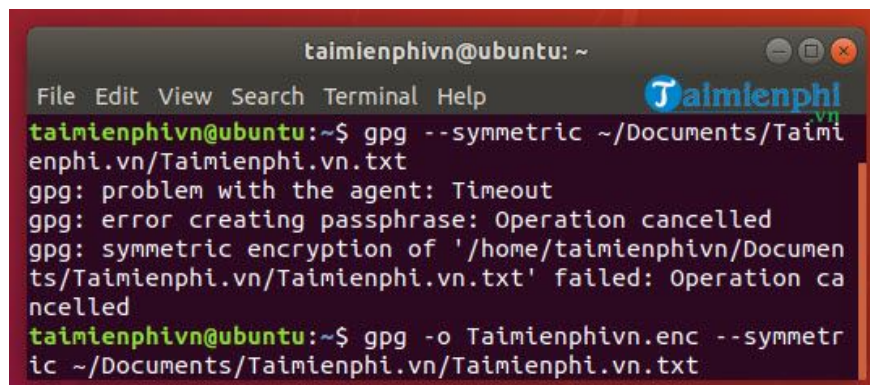
Inside the encrypted folder, you will now see another file appear with the \*.gpg extension, which means the encryption of Files and folders on Ubuntu has been completed.



*Step 12:* To rename the encrypted file, type **the command** `gpg -o Taimienphivn.enc --symmetric - /Documents/Taimienphi.vn/Taimienphi.vn.txt`

Where > Taimienphivn.enc is the new file name.

>>Taimienphi.vn.txt is the original file name.



Above is all the information that users need to know when researching file and folder encryption on Ubuntu. With the instructions for encrypting files and folders on Ubuntu, we can encrypt files ourselves as desired. And there are many other tips we want to share with you about Ubuntu, but TipsMake would like to see you in the next articles on the TipsMake page.

With the above trick, we know another way to encrypt data in Ubuntu. Indeed, **data encryption** is not as simple as Windows, but in terms of security features, it is not inferior. One thing to note is that readers must check the version of Ubuntu they are using because not all versions support it. To avoid having **to check the Ubuntu version** , another way is to always update it to the latest version.

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