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Into The Void

28/08/2009

how to use encrypted loop files with a gpg passphrase in Debian

Fast howto (mostly a note for personal use) on what's needed on Debian to use an encrypted loop:

```
1. The necessary utilities (patched losetup)
# aptitude install loop-aes-utils
2. The necessary kernel-module
# aptitude install loop-aes-modules-2.6.30-1-686-bigmem
3. Create the keyfile (keep your computer as busy as possible while doing this to increase entropy)
# head -c 2925 /dev/urandom | uuencode -m - | head -n 66 | tail -n 65 | gpg --symmetric -a >/path/to/keyfile.gpg
4. Loopfile creation (10Mb)
# dd if=/dev/urandom of=/my-encrypted-loop.aes bs=1k count=10000
5. Initialize loopfile
# losetup -K /path/to/keyfile.gpg -e AES256 /dev/loop5 /home/username/crypto-loop.img
6. Format loopfile
# mke2fs /dev/loop5
7. Delete loop device
# losetup -d /dev/loop5
8. Create mount point for loopfile
# mkdir /mnt/crypto-loop
9. Add entry to fstab

/home/username/crypto-loop.img /mnt/crypt-loop ext2
defaults,noauto,user,loop=/dev/loop7,encryption=AES256,gpgkey=/path/to/keyfile.gpg 0 0
```

10. Try mounting the loopfile as user

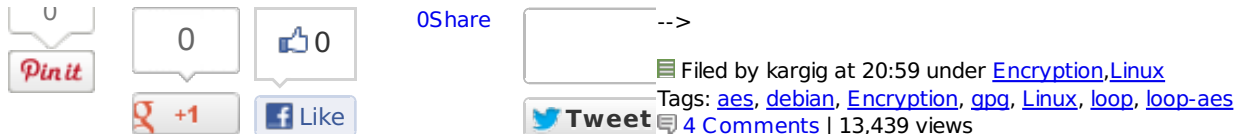
```
$ mount /mnt/crypto-loop
```

11. Check it's mounted properly

```
$ mount | grep -i aes
```

and use it!

P.S. Secure your keyfile.gpg, if it gets lost you won't _ever_ be able to decrypt what was inside crypto-loop.img!



4 Responses to “how to use encrypted loop files with a gpg passphrase in Debian”

1. [argp](#)

August 29th, 2009 | [00:54](#)

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Nice post, thanks for the tip. However, I prefer encfs since it is a bit more platform independent.

2. [how to use encrypted loop files with a gpg passphrase in Debian | Debian-News.net - Your one stop for news about Debian](#)

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3. [leviathan](#)

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[...] i report a quick HOW-TO from <http://www.void.gr> , original post is [HERE](#) [...]

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