

UBUNTU - HOW TO ENCRYPT SWAP PARTITION

Create partition for swap (*/dev/sdaX* in this example). Prepare and enable it using *mkswap* and *swapon* commands. If you already use swap partition then omit these steps.

```
$ sudo mkswap /dev/sdaX

Setting up swapspace version 1, size = 4194300 KiB

no label, UUID=325d9718-8532-460d-afec-74e6aee9ae5f

$ sudo swapon /dev/sdaX
```

Execute *ecryptfs-setup-swap* script (it is part of *ecryptfs-utils* package):

```
$ sudo ecryptfs-setup-swap
```

WARNING:

An encrypted swap is required to help ensure that encrypted files are not leaked to disk in an unencrypted format.

HOWEVER, THE SWAP ENCRYPTION CONFIGURATION PRODUCED BY THIS PROGRAM

WILL BREAK HIBERNATE/RESUME ON THIS SYSTEM!

NOTE: Your suspend/resume capabilities will not be affected.

Do you want to proceed with encrypting your swap? [y/N]: y

INFO: Setting up swap: [/dev/sdaX]

* Stopping remaining crypto disks...

* cryptswap1 (stopped)... [OK]

* Starting remaining crypto disks...

* cryptswap1 (starting)..

* cryptswap1 (started)... [OK]

INFO: Successfully setup encrypted swap!

Changes are automatically applied to *crypttab* and *fstab* configuration files.

```
$ cat /etc/crypttab | grep /dev/sdaX
```

```
cryptswap1 /dev/sdaX /dev/urandom swap,cipher=aes-cbc-essiv:sha256
```

```
$ cat /etc/fstab | grep cryptswap1
```

```
/dev/mapper/cryptswap1 none swap sw 0 0
```

Source: <https://blog.sleeplessbeastie.eu/2012/05/23/ubuntu-how-to-encrypt-swap-partition/>