Change/Add LUKS Passphrase

LUKS is used for Full Disk Encryption, among other things. Sometimes, after you have set this up, you find you need a second passphrase, or you need to replace an existing passphrase. One recent example for me was when I retasked a laptop with an encrypted file system for another employee. They really needed most of the stuff on there, and it was a recent install, so I did not want to rebuild from scratch. However, I did not want to give her my passphrase either.

Another scenario is when you want a user to have a passphrase, but you also want a separate passphrase that IT can use to get in if necessary.

Following assumes you have a disk set up with LUKS, and you want to add or change the passphrase for it. This is based on a Devuan system install, though it should work for any Linux based system.

Change LUKS Passphrase

The following assumes /dev/sda5 is the partition that is encrypted (discover in step 1)

1. Find the partition you need to change

```
blkid -t TYPE=crypto_LUKS -o device
```

2. Determine which key slots are populated

```
cryptsetup luksDump /dev/sda5 | grep Key.Slot
```

3. Change the key (assumes above showed key 2 was the one to change)

```
cryptsetup luksChangeKey /dev/sda5 -S 2
```

Add a new LUKS Passphrase

The following assumes /dev/sda5 is the partition that is encrypted (discover in step 1)

1. Find the partition you need to change

```
blkid -t TYPE=crypto_LUKS -o device
```

2. Make sure you have an empty key slot

```
cryptsetup luksDump /dev/sda5 | grep Key.Slot
```

3. Add the key

```
cryptsetup luksAddKey /dev/sda5
```

Delete a LUKS key

The following assumes /dev/sda5 is the partition that is encrypted (discover in step 1)

1. Find the partition you need to change

```
blkid -t TYPE=crypto_LUKS -o device
```

2. Make sure you have an empty key slot

```
cryptsetup luksDump /dev/sda5 | grep Key.Slot
```

3. Delete key 2

```
cryptsetup luksKillSlot /dev/sda5 2
```

Links

- https://www.linuxexperten.com/content/change-my-luks-encryption-password-etc
- https://manpages.debian.org/stretch/cryptsetup-bin/cryptsetup.8.en.html

From:
https://kb.unixservertech.com/ - **Unix Server Tech Knowledge Base**

Permanent link:
https://kb.unixservertech.com/other/encryption/lukspass

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