How to do this do with dd

creation of an virtual disk under linux

```
1 - do dd

sudo dd if=/dev/zero of=vdisk0.img bs=100M count=100 iflag=fullblock status=progress

2 - do cfdisk

sudo cfdisk vdisk0.img

and create the table of partition

3 - after dd do: mkfs

sudo mkfs.ext4 - f vdisk0.img

4 - and mount

sudo mount vdisk0.img /mnt
```

Now you can reformat into XFS under an LUKS if you want.... ;)

Encrypted virtual disk (LUKS)

```
create the folder vdisks with mkdir -p /vdisks

1 - do dd

sudo dd if=/dev/random of=/vdisks/secret-data.img bs=100M count=100 iflag=fullblock status=progress
```

```
2 - after dd do cfdisk
sudo cfdisk /vdisks/secret-data.img
```

and create the table of partition

3 - after have do cfdisk please do cryptsetup to format sudo cryptsetup luksFormat /vdisks/secret-data.img

set your password of this disk(asked)

4 - mount the disk with this an password can be asked

sudo cryptsetup luksOpen /vdisks/secret-data.img secret
sudo mount /dev/mapper/secret /mnt

And if you want unmount

sudo umount /mnt && sudo cryptsetup luksClose /dev/mapper/secret

...Now you know how to do this