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Subject: Guide for encrypted install

Posted by [locutus](#) on Mon, 21 Oct 2019 12:54:30 GMT

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I'm looking to make a guide for installing encrypted Freenix, but also for libreboot devices aka X200.T400

Here is what I have made for far all works however, if the guide can be better please add. I would like to submit to libreboot and see if they will add as in Freenix guide.

Current guide is only working on no-libreboot devices i.e. x200

Erase disk

```
- [ ] cryptsetup open --type plain -d /dev/urandom /dev/sda erase_disk
```

Now fill the container with zeros.

```
- [ ] dd if=/dev/zero of=/dev/mapper/erase_disk bs=1M
```

close the container

```
- [ ] cryptsetup close erase_disk
```

#####

cfdisk

2 partitions

150M + boot (sda1)

full disk (sda2)

now encrypt

```
- [ ] cryptsetup -s 256 -y luksFormat /dev/sdx2
```

cap YES

enter password

```
cryptsetup luksOpen /dev/sda2 vault0
```

enter PW

First step for LVM setup is to create our physical volume.

```
- [ ] pvcreate /dev/mapper/vault0
```

create volume group name it matrix

```
- [ ] vgcreate matrix /dev/mapper/vault0
```

create swap

```
lvcreate -L 8G -n swap matrix
```

create root

```
lvcreate -L 15G -n root matrix
```

create home

```
lvcreate -l 100%FREE -n home matrix
```

vgscan --mknodes

vgchange -ay

active swap before setup

```
mkswap /dev/matrix/swap
```

Installation = run setup

addswap

```
add root w/ext4 (/dev/matrix/root)
```

```
add boot w/ext2 mount point /boot (/dev/sda1)
```

```
add home w/xfs mount point /home (/dev/matrix/home)
```

after installing OS exit do not reboot

###

chroot /mnt

- [ ] grub-install /dev/sda (non-libre devices)

- [ ] mkdir /boot/grub

- [ ] grub-mkconfig -o /boot/grub/grub.cfg (non-libreboot)

- [ ] grub-mkconfig -o /boot/grub/libreboot\_grub.cfg

edit the /boot/grub/libreboot\_grub.cfg or /grub.cfg (non-libreboot) file and then just after the first echo 'Loading Linux 4.4.14 ...' change

linux /vmlinuz-huge-4.4.14 root=/dev/mapper/cryptvg-root ro

change to

linux /vmlinuz-generic-4.4.14 root=/dev/mapper/matrix-root ro

- [ ]

exit

reboot

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