Introduction

This will be anew attempt at getting a fully encrypted Archlinux system without systemd (if it works)

Install

I won't comment the first steps as they are equal to How to install Arch Linux with Full Disk Encryption

I will use the first disk (500GB) for /boot and / and leave the SSD (256GB) for future VMs

boot on the CD/Install

following How to install Arch Linux with Full Disk Encryption I create the 2 partitions (/boot and / crypted aka cryptroot)

```
cryptsetup --verbose --cipher aes-xts-plain64 --key-size 512 --hash sha512 --iter-time 5000 --use-random luksFormat /dev/sda2

cryptsetup open --type luks /dev/sda2 cryptroot

mkfs.ext4 /dev/sda1
mkfs.ext4 /dev/mapper/cryptroot

mount -t ext4 /dev/mapper/cryptroot /mnt
mkdir -p /mnt/boot
mount -t ext4 /dev/sda1 /mnt/boot


pacstrap -i /mnt base base-devel

genfstab -U -p /mnt >> /mnt/etc/fstab

arch-chroot /mnt

sed -i 's/#en_US.UTF-8 UTF-8/en_US.UTF-8 UTF-8/g' /etc/locale.gen

echo LANG=en_US.UTF-8 > /etc/locale.conf
```

in /etc/locale.conf: LANG=“en_US.UTF-8”

Keep the default sort order (e.g. files starting with a '.' # should appear at the start of a directory listing.) LC_COLLATE=“C”

Then continue:

```
echo "KEYMAP=us-acentos" > /etc/vconsole.conf
echo 30L3 > /etc/hostname

rm /etc/localtime
ln -s /usr/share/zoneinfo/Europe/Zurich /etc/localtime

passwd

useradd -m -g users -G
wheel,games,power,optical,storage,scanner,lp,audio,video -s /bin/bash
warnaud

passwd warnaud

pacman -S sudo grub-bios os-prober

EDITOR=vi visudo


vi /etc/default/grub
```

with:

```
GRUB_CMDLINE_LINUX="cryptdevice=/dev/sda2:cryptroot"
```

then continue... :

```
vi /etc/mkinitcpio.conf
```

to add the “encrypt” hook:

```
HOOKS="base udev autodetect modconf block encrypt filesystems keyboard fsck"
```

continue:

```
mkinitcpio -p linux
grub-install --recheck /dev/sda
grub-mkconfig --output /boot/grub/grub.cfg

exit
umount -R /mnt/boot
umount -R /mnt
cryptsetup close cryptroot
systemctl reboot
```

let the fun begin!

First disable iptables:

```
systemctl stop iptables
```

```
pacman -S openssh
```

and voilà, until reboot, ssh is accessible for user warnaud :)

```
 systemctl enable dhcpcd@enp0s25

pacman -S wpa_supplicant xorg-server xorg-apps xorg-fonts xorg-fonts-100dpi
xorg-fonts-75dpi xorg-twm xorg-xclock xorg-xinit xorg-xdm xterm xf86-video-
intel xorg-xmessage xorg-xcalc xorg-xfontsel alsa-utils acpi acpid xf86-
input-wacom libcups cups cups-filters ghostscript gsfonts rxvt-unicode
urxvt-perls chromium imagemagick vlc emelfm2 flashplugin xosd ttf-dejavu
artwiz-fonts libreoffice libreoffice-en-US libreoffice-fr ntp vim
```

Some graphical stuff:

```
 pacman -S lightdm lightdm deepin-session-ui deepin

 systemctl enable lightdm
```

lightdm does not work... deepin looks like a big work in progress

More stuff to install / launch

```
systemctl enable acpid
systemctl start acpid
pacman -S
```

Xorg and some other conf are in Archlinux Install Systemd is still here I know sorry, will update once openRC is installed/working check this article

todo

- Unordered List Itemfind a nice WM/DE 💪
- install virtualbox
- TPM: https://wiki.archlinux.org/index.php/Trusted_Platform_Module
- wifi stuff

References:

- https://wiki.archlinux.org/index.php/LightDM
- https://wiki.archlinux.org/index.php/Deepin_Desktop_Environment
- http://arnaud.fortier-family.com/wiki/doku.php/archlinux/30l3

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https://wiki.fortier-family.com/os/archlinux/30l3-nosystemd-encrypted

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