Archlinux installieren (EFISTUB, Luks, Gnome, Hibernate)

Partitionieren

- 512MB EF00 efi
- 100%FREE – crypt
    - pv
        - vg main
            - lv 50GB root
            - lv RAM+2GB swap
            - lv 100%FREE home

mkfs.fat -F 32 -n EFI /dev/nvme0n1p1

cryptsetup luksFormat -c aes-xts-plain64 –hash sha256 -s 256 /dev/nvme0n1p2

cryptsetup luksOpen /dev/nvme0n1p2 lvm

pvcreate /dev/mapper/lvm

vgcreate main /dev/mapper/lvm

lvcreate -L 50GB -n root main

lvcreate -L 34GB -n swap main

lvcreate -l 100%FREE -n home main

mkfs.ext4 -L root /dev/mapper/main-root

mkswap -L swap /dev/mapper/main-swap

swapon -L swap

mkfs.ext4 -L home /dev/mapper/main-home

Partitionen mounten

mount /dev/mapper/main-root /mnt

mkdir /mnt/boot

mount /dev/nvme0n1p1 /mnt/boot

mkdir /mnt/home

mount /dev/mapper/main-home

Grundinstallation

Pacman konfigurieren

Spiegelserver auswählen

reflector -c Germany > /etc/pacman.d/mirrorlist

Bootstrapping

pacstrap /mnt base base-devel dosfstools gptfdisk lvm2 linux linux-firmware nano tmux

pacman –root /mnt dhcpcd bash-completion intel-ucode wpa_supplicant efibootmgr sudo openssh

fstab bauen

genfstag -Up /mnt > /mnt/etc/fstab

chrooten

arch-chroot /mnt

Hostname

echo krypton > /etc/hostname

Locale

nano /etc/locale.gen

echo LANG=en_GB.UFT-8 > /etc/locale.conf

locale-gen

echo KEYMAP=de-latin1 > /etc/vconsole.conf

ln -sf /usr/share/zoneinfo/Europe/Berlin /etc/localtime

Network

/etc/hosts

```
127.0.0.1 localhost.net.clerie.de localhost
::1 localhost.net.clerie.de localhost
```

Kernel konfigurieren

Initramfs

/etc/mkinitcpio.conf

```
...
MODULES=(ext4)
...
HOOKS=(base udev autodetect modconf block keyboard keymap encrypt lvm2
resume filesystems fsck shutdown)
...
```

mkinitcpio -p linux

EFI Boot

efibootmgr -c -d /dev/nvme0n1 -p 1 -l \vmlinuz-linux -L „Arch Linux efistub“ -u „initrd=\initramfs-linux.img quiet cryptdevice=/dev/nvme0n1p2:main root=/dev/mapper/main-root rw resume=/dev/mapper/main-swap“

efibootmgr -c -d /dev/nvme0n1 -p 1 -l \vmlinuz-linux -L „Arch Linux efistub Fallback“ -u „initrd=\initramfs-linux-fallback.img cryptdevice=/dev/nvme0n1p2:main root=/dev/mapper/main-root rw“

Psst! Kleines Skript

install-efistub.sh

```
#!/bin/bash

drive="/dev/nvme0n1"
part="1"
p_cryptdevice="/dev/nvme0n1p2:main"
p_root="/dev/mapper/main-root"
p_swap="/dev/mapper/main-swap"

crypt="cryptdevice=${p_cryptdevice} root=${p_root} rw"
resume="resume=${p_swap}"
silent="quiet"
```

```
efibootmgr -c -d ${drive} -p ${part} -l \vmlinuz-linux -L "Arch Linux
efistub Fallback" -u "initrd=\initramfs-linux-fallback.img ${crypt}"
efibootmgr -c -d ${drive} -p ${part} -l \vmlinuz-linux -L "Arch Linux
efistub" -u "initrd=\initramfs-linux.img ${silent} ${crypt} ${resume}"
```

(optional) Grub

pacman -S grub

grub-install –target=x86_64-efi –efi-directory=/boot –bootloader-id=„Arch Linux GRUB“

/etc/default/grub

```
...
GRUB_CMDLINE_LINUX_DEFAULT="quiet cryptdevice=/dev/nvme0n1p2
resume=/dev/mapper/main-swap"
....
```

grub-mkconfig -o /boot/grub/grub.cfg

Abschließen

passwd

exit

umount -R /mnt

reboot

Einrichten

Temporärers Netzwerk

dhcpcd enp0s31f6

Benutzer

useradd -m -s /bin/bash clerie

passwd clerie

EDITOR=nano visudo

visudo

```
...
%wheel ALL=(ALL) ALL
...
```

usermod -a -G wheel clerie

SSD Trim

systemctl enable –now fstrim.timer

Gnome installieren

pacman -S gnome

oder

pacman -S cheese eog evince file-roller gdm gedit gnome-backgrounds gnome-calculator gnome-characters gnome-color-manager gnome-control-center gnome-disk-utility gnome-font-viewer gnome-keyring gnome-menus gnome-screenshot gnome-session gnome-settings-deamon gnome-shell gnome-shell-extension gnome-system-monitor gnome-terminal gnome-themes-extra gnome-user-share gnome-video-effects nautilus network manager sushi totem gnome-tweaks

systemctl enable gdm

systemctl enable NetworkManager.service

Bluetooth

pacman -S bluez bluez-utils

systemctl enable blutooth.service

Rebooten

reboot

Siehe auch

- https://wiki.archlinux.de/title/Anleitung_für_Einsteiger

- https://wiki.archlinux.de/title/Moderne_Installation_mit_UEFI_und_Verschl%C3%BCsselung