

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

```
genfstab -Up /mnt > /mnt/etc/fstab
```

chrooten

```
arch-chroot /mnt
```

Hostname

```
echo krypton > /etc/hostname
```

Locale

```
nano /etc/locale.gen
```

```
echo LANG=en_GB.UTF-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 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“
```

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

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

Abschließen

passwd

exit

umount -R /mnt

reboot

Einrichten

Temporärer 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 gnome-tweaks

systemctl enable gdm

systemctl enable NetworkManager.service

Bluetooth

```
pacman -S bluez bluez-utils
```

```
systemctl enable bluetooth.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

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