

# clerie's Gentoo install Guide

## Konzept

- Vollverschlüsselte Festplatte
- (U)EFI Boot direkt in den Kernel
- Hibernate

## Links

- [https://wiki.gentoo.org/wiki/Full\\_Disk\\_Encryption\\_From\\_Scratch\\_Simplified](https://wiki.gentoo.org/wiki/Full_Disk_Encryption_From_Scratch_Simplified)

## Partitionierung

/boot/efi		512MB	mkfs.fat -F 32
/boot		1G	mkfs.ext4
lvm	/	25GB	
	swap	RAM+2GB	
	/home	100%FREE	

## Krypto

```
cryptsetup luksFormat -c aes-xts-plain64 -hash sha256 -s 256 /dev/nvme0n1p3
```

## LVM

```
cryptsetup luksOpen /dev/nvme0n1p3 lvm
```

```
pvcreate /dev/mapper/lvm
```

```
vgcreate vg0 /dev/mapper/lvm
```

```
lvcreate -L50G -n root vg0
```

```
lvcreate -L18G -n swap vg0
```

```
lvcreate -l 100%FREE -n home vg0
```

```
mkfs.ext4 /dev/mapper/vg0-root
```

```
mkswap /dev/mapper/vg0-swap swapon /dev/mapper/vg0-swap
```

```
mkfs.ext4 /dev/mapper/vg0-home
```

## Partitionen einhängen

```
mkdir /mnt/gentoo
mount /dev/mapper/vg0-root /mnt/gentoo
mkdir /mnt/gentoo/home
mount /dev/mapper/vg0-home /mnt/gentoo/home
mkdir /mnt/gentoo/boot
mount /dev/nvme0n1p2 /mnt/gentoo/boot
mkdir /mnt/gentoo/boot/efi
mount /mnt/nvme0n1p1 /mnt/gentoo/boot/efi
cd /etc/gentoo
```

## Gentoo laden

```
wget https://linux.rz.ruhr-uni-bochum.de/download/gentoo-mirror/releases/amd64/a\_utobuilds/current-stage3-amd64/stage3-amd64-20200722T214503Z.tar.xz
```

<https://linux.rz.ruhr-uni-bochum.de/download/gentoo-mirror/>

```
tar xvf stage3-amd64-20200722T214503Z.tar.xz -xattrs -numeric-owner
```

## Repos konfigurieren

```
mkdir etc/portage/repos.conf
cp usr/share/portage/config/repos.conf etc/portage/repos.conf/gentoo.conf
```

## Kernel Konfig

- Wir wollen direkt vom Kernel booten
  - [https://wiki.gentoo.org/wiki/EFI\\_System\\_Partition](https://wiki.gentoo.org/wiki/EFI_System_Partition)
  - [https://wiki.gentoo.org/wiki/EFI\\_stub\\_kernel](https://wiki.gentoo.org/wiki/EFI_stub_kernel)

From:

<https://wiki.clerie.de/> - **clerie's Wiki**

Permanent link:

<https://wiki.clerie.de/notiz/gentoo-installieren?rev=1595495750>

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