

# Tools

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- ▶ `dd`
  - ▶ Kopiert rohe *bitstreams*
- ▶ `fdisk`
  - ▶ Ezeugt Partitionen
- ▶ Client `ssh`/Server `sshd`
  - ▶ sichere Verbindung zwischen Rechnern
- ▶ `minicom`
  - ▶ direkte unsichere serielle Verbindung
- ▶ `rsync`
  - ▶ Update/Backup
- ▶ Client `tftp`/Server `tftpd`
  - ▶ elementare schneller Transfer von Files

rsync

<https://rsync.samba.org/>

- ▶ effizienter Transfer von vielen Files
- ▶ typisch

```
rsync -av rootfs/ path-to-sd-card/
```

# tftp

## trivial file transfer protocol

- ▶ Client-Server

- ▶ Client

- ▶ als *shell*
- ▶ als einzelnes Kommando

```
#-----  
#tftp-put.sh  
#(c) H.Buchmann FHNW 2015  
#${1}:ip ${2}:file  
#-----  
tftp -m binary ${1} -c put ${2}
```

- ▶ Server

```
#-----  
#tftp.sh  
#(c) H.Buchmann FHNW 2015  
#-----  
# we are in work  
sudo in.tftpd -l -s $(pwd)
```