

Cubietruck als headless Video Disk Recorder (VDR)

Installation von Debian (GNU Debian 10.x aka. Buster) auf dem Cubietruck (ARMv7 AllWinner A20)

Quellen

1. <https://wiki.debian.org/InstallingDebianOn/Allwinner>
2. <https://www.debinux.de/2014/12/debian-basics-mit-systemd/>
3. <http://www.milaw.biz/wiki/arch/cubietruck> - Pimp my CubieTruck
4. <https://www.robert-sperling.de/mainline-kernel-fuer-cubietruck/>
5. <http://www.sundtek.com/>



Debian 10.x aka. Buster Installation

Installation wie unter [1] beschrieben durchführen.

```
wget https://deb.debian.org/debian/dists/stable/main/installer-armhf/current/images/netboot/SD-card-images/firmware.Cubietruck.img.gz
wget https://deb.debian.org/debian/dists/stable/main/installer-armhf/current/images/netboot/SD-card-images/partition.img.gz
zcat firmware.<board_name>.img.gz partition.img.gz > /dev/sdc
```

- Serielles Kabel (FTDI-Kabel) anschließen um die folgenden Schritte auf der Konsole durchführen zu können, Schnittstellenparameter: 115200 baud, 8N1
- `sudo minicom -b 115200 -o -D /dev/ttyUSB0`
- Cubietruck mit der neu erstellten SD-Karte booten
- SD-Karte in Cubietruck, Power ON
- System bootet komplett im RAM
- Installation via Konsole durchführen
- Reboot

Konfiguration des Grundsystems

SSH Login einrichten und Grundsystem konfigurieren ...

```
#login als <USER> via SSH
ssh -l <USER> <VDR-IP>
su root
echo "PermitRootLogin yes" >> /etc/ssh/sshd_config
```

reboot

Zum SSH-Login ohne Passwordeingabe eine SSH Schlüsseldatei auf den VDR kopieren:

```
ssh-copy-id -i ~/.ssh/vdr.wg.pub root@<VDR-IP>  
# dann immer mit:  
ssh vdr
```

Oder mit Passwort:

```
ssh -l root <VDR-IP>
```

```
touch install_system.sh && chmod +x install_system.sh && mcedit  
install_system.sh
```

install_system.sh

```
#!/bin/bash  
# System aktualisieren und ein paar wichtige Tools installieren  
apt-get -y update && apt-get -y dist-upgrade  
apt-get -y install mc aptitude net-tools psmisc  
echo "PATH=$PATH:/sbin:/usr/sbin/" >> .profile  
echo "PATH=$PATH:/sbin:/usr/sbin/" >> /home/christoph/.profile  
  
# Zeitzone auf Europa - Berlin einstellen:  
timedatectl set-timezone Europe/Berlin  
# Systemsprache auf "Deutsch" ändern damit VDRAdmin-AM auch 'schön'  
aussieht und Umlaute sowohl im EPG als auch in den Aufnahmen korrekt  
dargestellt werden:  
sed -i 's/# de_DE.UTF-8 UTF-8/de_DE.UTF-8 UTF-8/g' /etc/locale.gen  
locale-gen  
update-locale LANG=de_DE.UTF-8 LC_MESSAGES=de_DE.UTF-8  
LANGUAGE=de_DE.UTF-8  
sed -i 's/LC_ALL="C"/LC_ALL=de_DE.UTF-8/g' /etc/environment  
echo "LANG=de_DE.UTF-8" >> /etc/environment  
echo ""  
echo "Reboot empfohlen!"  
#reboot
```

```
# Check mit:  
date
```

Netzwerkconfiguration

```
touch install_network.sh && chmod +x install_network.sh && mcedit  
install_network.sh
```

[install_network.sh](#)

```
#!/bin/bash
# Statische Netzwerkkonfiguration --> Networkmanager abschalten - wird
# bei mir nicht benötigt
systemctl stop NetworkManager
systemctl disable NetworkManager

# Netzwerkkonfiguration schreiben:
cat << EOF >> /etc/network/interfaces

auto eth0
iface eth0 inet static
    address 192.168.100.3
    broadcast 192.168.100.255
    netmask 255.255.255.0
    gateway 192.168.100.1
    dns-nameservers 192.168.100.1
EOF

# Netzwerkdienste neu starten
systemctl restart networking
systemctl restart resolvconf
```

NTP Server ändern

```
# eigenen NTP Server eintragen:
grep -v '^pool' /etc/chrony/chrony.conf > /etc/chrony/chrony.tmp; echo
"server 192.168.100.1" >> /etc/chrony/chrony.tmp; mv /etc/chrony/chrony.tmp
/etc/chrony/chrony.conf
```

Festplatte einbinden

```
touch mount_hdd.sh && chmod +x mount_hdd.sh && mcedit mount_hdd.sh
```

[mount_hdd.sh](#)

```
#!/bin/bash
# Die eindeutige ID meiner Festplatte ermitteln und damit einen Eintrag
# zum mounten beim Systemstart in der ''fstab'' erstellen:
UUID=`blkid -o value -s UUID /dev/sda1`; echo "UUID=$UUID /mnt/sda1
ext4 defaults 1 1" >> /etc/fstab
#UUID=`blkid | grep -i sda1 | cut -d'"' -f2`; echo "UUID=$UUID
/mnt/sda1 ext4 defaults 1 1" >> /etc/fstab
#
# HOME-Verzeichnis umleiten damit ich mehr Platz zur Verfügung habe ;-)
```

```
mkdir -p /mnt/sda1
mount -a
mkdir -p /mnt/sda1/christoph
cd /home/
mv christoph christoph_orig
ln -s /mnt/sda1/christoph christoph
chown -R christoph:christoph /mnt/sda1/christoph
cd /home/christoph_orig
find . -depth -print | cpio -pdm --quiet ../christoph/
```

Installation Sundtek Treiber

```
touch install_sundtek.sh && chmod +x install_sundtek.sh && mcedit
install_sundtek.sh
```

[install_sundtek.sh](#)

```
#!/bin/bash
mkdir -p sundtek
cd sundtek
# Installations-Script vom Hersteller Sundtek herunter laden und
ausführen:
wget http://www.sundtek.de/media/sundtek_netinst.sh
chmod +x sundtek_netinst.sh
./sundtek_netinst.sh -easyvdr -nolirc
/opt/bin/mediaclient --dtvtransfermode=bulk -d
/dev/dvb/adapater0/frontend0
# Reconnect Tuner #1
/opt/bin/mediaclient --dtvtransfermode=bulk -d
/dev/dvb/adapater1/frontend0
# Reconnect Tuner #2
#
# VDR erneut starten wenn DVB-Tuner Treiber geladen sind:
echo "device_attach=service vdr restart" >> /etc/sundtek.conf
```

Installation Hauppauge WinTV-dualHD Firmware

Der DVB-C Dual-Tuner WinTV-dualHD war auch nach vielen Versuchen mit unterschiedlichen Distributionen auf einer ARMhf Architektur mit einem 5.xer Kernel nicht stabil lauffähig. Daher habe ich mich entschlossen den guten alten Cubietruck mit einem 4.19er Kernel (4.19.59-sunxi) zu betreiben welcher in der Folge problemlos mit dem Hauppauge DVB-C Stick zusammenarbeitet!

Zum Betrieb des DVB-C dual Tuners **WinTV-dualHD** wird noch die passende Firmware benötigt.

Diese muss im Verzeichnis `/lib/firmware/` abgelegt werden damit der Kernel sie beim Systemstart automatisch laden kann.

Quellen

- [Hauppage Support Webseite](#)
- <https://tvheadend.org/boards/5/topics/41993>
- <http://palosaari.fi/linux/v4l-dvb/firmware/Si2168/Si2168-B40/>

```
touch install_hauppage.sh && chmod +x install_hauppage.sh && mcedit  
install_hauppage.sh
```

[install_hauppage.sh](#)

```
#!/bin/bash  
sudo su  
cd /lib/firmware/  
# defekt: wget  
https://github.com/OpenELEC/dvb-firmware/raw/master/firmware/dvb-demod-  
si2168-b40-01.fw  
# defekt: wget  
https://github.com/OpenELEC/dvb-firmware/blob/master/firmware/dvb-demod-  
-si2168-b40-01.fw  
# defekt:wget  
http://palosaari.fi/linux/v4l-dvb/firmware/Si2168/Si2168-B40/4.0.25/dvb-  
-demod-si2168-b40-01.fw  
wget http://palosaari.fi/linux/v4l-dvb/firmware/Si2168/Si2168-  
B40/4.0.4/dvb-demod-si2168-b40-01.fw  
# oder  
wget https://www.hauppage.com/linux/dvb-demod-si2168-b40-01.fw  
shutdown -r now
```

```
wget http://palosaari.fi/linux/v4l-dvb/firmware/Si2168/Si2168-  
B40/4.0.25/dvb-demod-si2168-b40-01.fw
```

```
dmesg
```

```
...  
[ 35.605149] si2168 5-0064: downloading firmware from file 'dvb-demod-  
si2168-b40-01.fw'  
[ 36.824341] si2168 5-0064: firmware version: B 4.0.25  
[ 36.843449] si2157 8-0060: found a 'Silicon Labs Si2157-A30'  
[ 36.898574] si2157 8-0060: firmware version: 3.0.5  
[ 36.943588] si2168 5-0064: downloading firmware from file 'dvb-demod-  
si2168-b40-01.fw'  
[ 36.951864] si2168 7-0067: downloading firmware from file 'dvb-demod-  
si2168-b40-01.fw'  
[ 38.081222] si2168 5-0064: firmware version: B 4.0.25  
[ 38.090572] si2157 8-0060: found a 'Silicon Labs Si2157-A30'  
[ 38.092594] si2168 7-0067: firmware version: B 4.0.25  
[ 38.101348] si2157 9-0063: found a 'Silicon Labs Si2157-A30'
```

```
[ 38.115615] si2157 8-0060: firmware version: 3.0.5
[ 38.151070] si2157 9-0063: firmware version: 3.0.5
[ 38.172695] si2168 7-0067: downloading firmware from file 'dvb-demod-si2168-b40-01.fw'
[ 39.367599] si2168 7-0067: firmware version: B 4.0.25
[ 39.380975] si2157 9-0063: found a 'Silicon Labs Si2157-A30'
[ 39.406462] si2157 9-0063: firmware version: 3.0.5
```

VDR installieren

```
touch install_vdr.sh && chmod +x install_vdr.sh && mcedit install_vdr.sh
```

[install_vdr.sh](#)

```
#!/bin/bash
# VDR, StreamDev-Server, VNSI-Plugin, EPGSearch und VDRAdmin-AM
installieren:
apt-get -y install vdr vdr-plugin-streamdev-server vdr-plugin-
vnsiserver vdradmin-am vdr-plugin-epgsearch w-scan
# VDR stoppen damit weitere Änderungen an den Konfigurationsdateien
erfolgen können.
/etc/init.d/vdr stop && /etc/init.d/vdradmin-am stop
```

VDR Konfiguration

```
touch configure_vdr.sh && chmod +x configure_vdr.sh && mcedit
configure_vdr.sh
```

[configure_vdr.sh](#)

```
#!/bin/bash
# Verzeichnis für die Aufnahmen anlegen
mkdir -p /mnt/sda1/video0
chown -R vdr:vdr /mnt/sda1/video0/
chmod g+w /mnt/sda1/video0/

# VDR Konfigurationsdateien (nach-) bearbeiten:
sed -i 's/ENABLED="0"/ENABLED="1"/g' /etc/default/vdradmin-am
sed -i 's/UpdateChannels = 5/UpdateChannels = 0/g'
/var/lib/vdr/setup.conf
sed -i 's/--video=\\var\\lib\\video/--video=\\mnt\\sda1\\video0/g'
/etc/vdr/conf.d/00-vdr.conf
sed -i 's/--lirc/#--lirc/g' /etc/vdr/conf.d/00-vdr.conf
```

```
sed -i 's/--vfat/#--vfat/g' /etc/vdr/conf.d/00-vdr.conf

# Aktionen im Anschluss einer Aufnahme: Zugriffsrechte ändern:
cp /etc/vdr/recording-hooks/R90.custom /etc/vdr/recording-
hooks/R90.custom_orig
sed -i '/ENDED/a \ \ \ \ \ \ \ \ \ \ chmod -R g+w $2/..'
/etc/vdr/recording-hooks/R90.custom

# Konfiguration von VDRAdmin-AM anpassen:
sed -i 's/PASSWORD = linvdr/PASSWORD = vdr/g' /var/lib/vdradmin-
am/vdradmind.conf
sed -i 's/USERNAME = linvdr/USERNAME = vdr/g' /var/lib/vdradmin-
am/vdradmind.conf
if [[ -z `grep -w "LANG" /var/lib/vdradmin-am/vdradmind.conf` ]]; then
    echo "LANG = de_DE.utf8" >> /var/lib/vdradmin-am/vdradmind.conf
else
    sed -i 's/LANG = en_US.utf8/LANG = de_DE.utf8/g' /var/lib/vdradmin-
am/vdradmind.conf
    sed -i 's/LANG = /LANG = de_DE.utf8/g' /var/lib/vdradmin-
am/vdradmind.conf
fi
sed -i 's/SERVERHOST = ::/SERVERHOST = 0.0.0.0/g' /var/lib/vdradmin-
am/vdradmind.conf

if [[ -z `grep -w "LOCAL_NET" /var/lib/vdradmin-am/vdradmind.conf` ]];
then
    echo "LOCAL_NET = 192.168.0.0/16" >> /var/lib/vdradmin-
am/vdradmind.conf
else
    sed -i 's/LOCAL_NET = 0.0.0.0\32/LOCAL_NET = 192.168.0.0\16/g'
/var/lib/vdradmin-am/vdradmind.conf
fi
echo "VIDEODIR = /mnt/sda1/video0" >> /var/lib/vdradmin-
am/vdradmind.conf
echo "TM_MARGIN_BEGIN = 10" >> /var/lib/vdradmin-am/vdradmind.conf
sed -i 's/GUEST_ACCOUNT = 0/GUEST_ACCOUNT = 1/g' /var/lib/vdradmin-
am/vdradmind.conf
echo "PASSWORD_GUEST = gast" >> /var/lib/vdradmin-am/vdradmind.conf
echo "USERNAME_GUEST = gast" >> /var/lib/vdradmin-am/vdradmind.conf

# Lokale Netzwerke zulassen:
echo "192.168.0.0/16" >> /etc/vdr/svdrphosts.conf
sed -i 's/#192.168.100.0\24/192.168.0.0\16/g'
/etc/vdr/plugins/streamdevhosts.conf
sed -i 's/192.168.0.0\24/192.168.0.0\16/g'
/etc/vdr/plugins/vnsiserver/allowed_hosts.conf
#/etc/init.d/vdr start && /etc/init.d/vdradmin-am start
```

Sendersuchlauf manuell starten

```
#!/bin/bash
sudo su
#apt-get install w-scan
# w_scan -fc -c DE >> /root/channels.conf
w_scan -fc -c DE >> /root/`date +%Y%m%d`_channels.conf
```

angepasste Kanalliste verwenden

touch mk_channels_conf.sh && chmod +x mk_channels_conf.sh && mcedit
mk_channels_conf.sh Kanalliste kopieren nach /var/lib/vdr/channels.conf

[mk_channels_conf.sh](#)

```
#!/bin/bash
# Backup der Originl-Kanalliste anlegen:
cp /var/lib/vdr/channels.conf /var/lib/vdr/channels_`date +%Y%m%d`.conf

# meine persönliche Kanalliste erstellen:
cat << EOF > /var/lib/vdr/channels.conf
Das Erste
HD;ARD:330000:M256:C:6900:5101=27:0;5102=@106,5103=@106:5104;5105:0:111
00:1:1051:0
ZDF
HD;ZDFvision:450000:M256:C:6900:6110=27:0;6120=@106,6121=@106,6123=@106
:6130;6131:0:11110:1:1079:0
NDR FS NDS
HD;ARD:458000:M256:C:6900:5221=27:0;5222=@106,5223=@106:5224;5225:0:103
27:1:1073:0
SAT.1;Digital
Free:122000:M64:C:6900:2701=2:2702=ger@3;2703=@106:2704:0:53626:61441:1
0000:0
RTL;Digital
Free:122000:M64:C:6900:1401=2:1402=ger@3;1403=@106:1404;6261:0:53601:61
441:10000:0
ProSieben;Digital
Free:442000:M256:C:6900:2201=2:2202=ger@3;2203=@106:2204:0:53621:61441:
10008:0
VOX;Digital
Free:394000:M256:C:6900:1701=2:1702=ger@3:1704;1700:0:53604:61441:10003
:0
kabel eins;Digital
Free:442000:M256:C:6900:2301=2:2302=ger@3:2304:0:53622:61441:10008:0
kabel eins Doku;Digital
Free:610000:M64:C:6900:1511=2:1512=ger@3:1514:0:50122:61441:10021:0
```



```
3sat
HD;ZDFvision:562000:M256:C:6900:6691=27:0;6692=@106,6693=@106,6697=@106
:6694;6690:0:11150:61441:10017:0
arte
HD;ARD:418000:M256:C:6900:6661=27:0;6662=@106,6663=@106,6669=@106:6664;
6665,6666:0:11120:61441:10014:0
PHOENIX
HD;ARD:474000:M256:C:6900:581=27:0;582=@106,583=@106:584:0:10331:61441:
10009:0
zdf_neo
HD;ZDFvision:474000:M256:C:6900:541=27:0;542=@106,543=@106,547=@106:544
;540:0:11130:61441:10009:0
ZDFinfo
HD;ZDFvision:450000:M256:C:6900:6710=27:0;6720=@106,6721=@106,6723=@106
:6730;6731:0:11170:1:1079:0
tagesschau24 HD;Digital
Free:586000:M256:C:6900:1221=27:0;1222=@106,1223=@106:1224:0:50062:6144
1:10018:0
n-tv;Digital
Free:394000:M256:C:6900:1901=2:1902=ger@3,1903=qaa@4:1904:0:53606:61441
:10003:0
N24 Doku;Digital
Free:610000:M64:C:6900:1471=2:1472=ger@3:1474:0:51037:61441:10021:0
ONE HD;Digital
Free:570000:M256:C:6900:1721=27:0;1722=@106,1723=@106:1724;1720:0:10376
:61441:10023:0
ARD alpha HD;Digital
Free:586000:M256:C:6900:1211=27:0;1212=@106,1213=@106:1214;1210:0:50061
:61441:10018:0
KiKA
HD;ZDFvision:474000:M256:C:6900:431=27:0;432=@106,433=@106:434;430:0:11
160:61441:10009:0
TOGG0 plus;Digital
Free:402000:M256:C:6900:591=2:592=ger@3:0:0:53326:61441:10002:0
ProSieben MAXX;Digital
Free:562000:M256:C:6900:6431=2:6432=ger@3;6433=@106:6434:0:53009:61441:
10017:0
Welt der Wunder TV;Digital
Free:610000:M64:C:6900:1421=2:1422=ger@3:0:0:51043:61441:10021:0
BR Fernsehen Süd
HD;ARD:338000:M256:C:6900:5201=27:0;5202=@106,5203=@106:5204;5205:0:103
25:1:1101:0
SR Fernsehen HD;Digital
Free:586000:M256:C:6900:1271=27:0;1272=@106,1273=@106:1274;1270:0:50064
:61441:10018:0
rbb Berlin
HD;ARD:450000:M256:C:6900:5311=27:0;5312=@106,5313=@106:5314;5315:0:103
51:1:1079:0
NDR FS HH
HD;ARD:338000:M256:C:6900:5241=27:0;5242=@106,5243=@106:5244;5245:0:103
29:1:1101:0
```

```
MDR Sachsen
HD;ARD:338000:M256:C:6900:5321=27:0;5322=@106,5323=@106:5324;5325:0:103
52:1:1101:0
SWR RP
HD;ARD:330000:M256:C:6900:5131=27:0;5132=@106,5133=@106:5134;5135:0:103
04:1:1051:0
WDR HD
Köln;ARD:330000:M256:C:6900:5501=27:0;5502=@106,5503=@106:5504;5505:0:2
8325:1:1051:0
hr-fernsehen
HD;ARD:418000:M256:C:6900:6551=27:0;6552=@106,6553=@106:6554;6550:0:103
55:61441:10014:0
sixx;Digital
Free:442000:M256:C:6900:1181=2:1182=ger@3:1184:0:50700:61441:10008:0
TELE 5;Digital
Free:442000:M256:C:6900:411=2:412=ger@3:414:0:53002:61441:10008:0
SUPER RTL;Digital
Free:394000:M256:C:6900:1501=2:1502=ger@3:1504;1500:0:53602:61441:10003
:0
RTL II;Digital
Free:394000:M256:C:6900:1601=2:1602=ger@3:1604;1600:0:53603:61441:10003
:0
DMAX;Digital
Free:466000:M256:C:6900:2291=2:2292=ger@3:2294:0:53617:61441:10007:0
SAT.1 Gold;Digital
Free:538000:M256:C:6900:2431=2:2432=deu@3:2434:0:53324:61441:10022:0
EOF

chown vdr:vdr /var/lib/vdr/channels.conf
/etc/init.d/vdr start && /etc/init.d/vdradmin-am start
```

Timer (wieder herstellen)

```
touch /var/lib/vdr/timers.conf
```

EPGsearch (wieder herstellen)

```
touch /var/lib/vdr/plugins/epgsearch/epgsearch.conf
```

Radiorecorder mit Web-GUI

```
#!/bin/bash
```

```
sudo su
apt-get -y install lighttpd streamripper at
systemctl status lighttpd
usermod -G vdr -a www-data
# PHP7.x
apt-get -y install php-common php-cgi php
lighty-enable-mod fastcgi
service lighttpd force-reload
lighty-enable-mod fastcgi-php
service lighttpd force-reload
systemctl restart lighttpd
echo "<?php phpinfo(); ?>" >> /var/www/html/phpinfo.php
# Im Browser öffnen: http://VDR-IP/phpinfo.php
# www-data aus /etc/at.deny entfernen
sed -i -e '/www-data/d' /etc/at.deny
cd ~
wget
https://netcologne.dl.sourceforge.net/project/radiorecwebgui/0.3.x/radioreco
rder_0.3.1.tar.gz
tar xzf radiorecorder_0.3.1.tar.gz
mkdir -p /var/www/html/radiorecorder
cp -R radiorecorder_0.3.1/* /var/www/html/radiorecorder/
touch /var/www/html/radiorecorder/res/streams.txt
```

/var/www/html/radiorecorder/res/streams.txt

streams.txt

```
NDR2;http://ndr-ndr2-niedersachsen.cast.addradio.de/ndr/ndr2/niedersach
sen/mp3/128/stream.mp3
NDR
Kultur;http://ndr-ndrkultur-live.cast.addradio.de/ndr/ndrkultur/live/mp
3/128/stream.mp3
NDR
Info;http://ndr-ndrinfo-niedersachsen.cast.addradio.de/ndr/ndrinfo/nied
ersachsen/mp3/128/stream.mp3
NDR Info
Spezial;http://ndr-ndrinfospezial-live.cast.addradio.de/ndr/ndrinfospez
ial/live/mp3/128/stream.mp3
N-
Joy;http://ndr-njoy-live.cast.addradio.de/ndr/njoy/live/mp3/128/stream.
mp3
NDR
Blue;http://ndr-ndrblue-live.cast.addradio.de/ndr/ndrblue/live/mp3/128/
stream.mp3
NDR
Plus;http://ndr-ndrplus-live.cast.addradio.de/ndr/ndrplus/live/mp3/128/
stream.mp3
```

```
chown -R www-data:www-data /var/www/html/  
mkdir /mnt/sda1/video0/radiorecorder  
chown -R vdr:vdr /mnt/sda1/video0/radiorecorder/  
chmod -R g+w /mnt/sda1/video0/radiorecorder/  
systemctl restart lighttpd  
# Im Browser öffnen: http://<VDR-IP>/radiorecorder/
```

/var/www/html/radiorecorder/res/settings.php

[settings.php](#)

```
<?php  
  
class Settings {  
  
    public static $siteRoot = '/var/www/html/radiorecorder';  
    public static $recordedFilesDestination =  
    '/mnt/sda1/video0/radiorecorder';  
    public static $language = 'de'; // "de" for german or "en" for english  
    public static $locale = 'C'; // default is "C"; other possible  
    locales: "de_AT.UTF-8" to enable all corresponding characters for the  
    filename  
    public static $defaultStreamripperParams = ''; // adds streamripper  
    params to each call  
    public static $addDatePrefixToFilename = null; // prefix format  
    (e.g. 'Y-m-d') or null if no prefix to add  
    public static $postCommand = ''; // command to be executed after  
    the recording is finished  
    public static $logThreshold = 3; // Level of log messages, possible  
    values : LEVEL_DEBUG=4, LEVEL_INFO=3, LEVEL_WARN=2, LEVEL_ERROR=1  
  
}  
  
?>
```

SAMBA installieren und einrichten

```
apt-get -y install samba cifs-utils  
adduser christoph  
smbpasswd -a christoph  
usermod -G vdr -a christoph  
adduser gast  
smbpasswd -a gast
```

```
systemctl restart smbd
```

Samba Konfiguration

```
cp /etc/samba/smb.conf /etc/samba/smb.conf_orig
mcedit /etc/samba/smb.conf
```

smb.conf

```
#===== Global Settings =====

[global]
    workgroup = WG
    server string = %h server
    wins support = no

    wins server = 192.168.100.1
    dns proxy = no
    name resolve order = lmhosts host wins bcst
    unix extensions = no
    server signing = disabled

#### Networking ####
;   interfaces = 127.0.0.0/8 eth0
;   bind interfaces only = yes

#### Logging ####
    log file = /var/log/samba/log.%m

# Cap the size of the individual log files (in KiB).
    max log size = 1000
    syslog = 0
    panic action = /usr/share/samba/panic-action %d

##### Authentication #####
    security = user
    encrypt passwords = true
    passdb backend = tdbsam
    obey pam restrictions = yes
    unix password sync = yes
    passwd program = /usr/bin/passwd %u
    passwd chat = *Enter\snew\s*\spassword:* %n\n
    *Retype\snew\s*\spassword:* %n\n *password\supdated\ssuccessfully* .
    pam password change = yes
    map to guest = bad user

    client min protocol = SMB2
    client max protocol = SMB3
```

```
#===== Share Definitions =====  
[homes]  
comment = Home Directories  
browseable = yes  
writeable = yes  
read only = no  
create mask = 0700  
directory mask = 0700  
valid users = %S  
  
[Aufnahmen]  
comment = VDR Aufnahmen  
path = /mnt/sda1/video0  
browseable = yes  
writeable = yes  
read only = no  
#create mask = 0700  
#directory mask = 0700  
#valid users = %S  
create mask = 0664  
directory mask = 0775  
force group = users  
follow symlinks = yes  
wide links = yes  
  
load printers = no  
printing = bsd  
printcap name = /dev/null  
disable spoolss = yes
```

Alles zusammen in einem Script...

```
wget -O install_all.sh  
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=23" && chmod +x install_all.sh &&  
./install_all.sh
```

[install_all.sh](#)

```
#!/bin/bash  
echo "Lade Installations-Skripte herunter ..."  
wget -O install_system.sh  
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=4" && chmod +x  
install_system.sh
```

```
wget -O install_network.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=6" && chmod +x
install_network.sh
wget -O mount_hdd.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=8" && chmod +x mount_hdd.sh
wget -O install_sundtek.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=9" && chmod +x
install_sundtek.sh
wget -O install_hauppage.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=10" && chmod +x
wget -O install_vdr.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=11" && chmod +x
install_vdr.sh
wget -O configure_vdr.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=12" && chmod +x
configure_vdr.sh
wget -O mk_channels_conf.sh
"https://www.von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_armbian_buster?do=export_code&codeblock=14" && chmod +x
mk_channels_conf.sh
echo " ... fertig. Starte System- und VDR Installation..."
read -n1 -rsp $'Press any key to start system installation or Ctrl+C to exit...\n'
./install_system.sh
read -n1 -rsp $'Press any key to start network configuration or Ctrl+C to exit...\n'
./install_network.sh
read -n1 -rsp $'Press any key to mount hdd, configure \"video0\" directory and move \"home\" directory or Ctrl+C to exit...\n'
./mount_hdd.sh
read -n1 -rsp $'Press any key to install Sundtek DVB-C driver or Ctrl+C to exit...\n'
./install_sundtek.sh
read -n1 -rsp $'Press any key to install Hauppauge DVB-C Firmware or Ctrl+C to exit...\n'
./install_hauppage.sh
read -n1 -rsp $'Press any key to install VDR and VDRadmin-AM or Ctrl+C to exit...\n'
./install_vdr.sh
read -n1 -rsp $'Press any key to configure VDR and VDRadmin-AM or Ctrl+C to exit...\n'
./configure_vdr.sh
read -n1 -rsp $'Press any key to generate \"channels.conf\" file or Ctrl+C to exit...\n'
./mk_channels_conf.sh
```

```
echo "Done!"
read -n1 -rsp $'Press any key to reboot your system now (recommended!)
or Ctrl+C to exit...\n'
shutdown -r now
```

Misc

Seriennummer der USB Tuner herausfinden

```
find /sys/devices -name 'dvb*frontend*'
/sys/devices/platform/soc@1c00000/lc1c000.usb/usb3/3-1/3-1:1.0/dvb/dvb1.frontend0
/sys/devices/platform/soc@1c00000/lc1c000.usb/usb3/3-1/3-1:1.0/dvb/dvb0.frontend0
root@VDR:/# dmesg | grep 'usb 3-1' | grep -i serialnumber | tail -1
[ 7455.803666] usb 3-1: SerialNumber: xxxxxxxxxxxx
```

From:
<https://von-thuelen.de/> - Christophs DokuWiki

Permanent link:
https://von-thuelen.de/doku.php/wiki/projekte/cubietruck/cubietruck_debian_buster?rev=1626275726

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