

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/>
6. https://www.hauppage.de/site/support/support_faq.php?n=FAQ.Linux

Debian 10.x aka. Buster Installation

Installation wie unter [1] beschrieben durchführen.

Installation -> siehe [Armbian Getting started](#)

```
# folgende Zeilen sind veraltet, siehe Hinweis unter "Installation Hauppauge
WinTV-dualHD Firmware":
#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

wget
https://armbian.systemonachip.net/archive/cubietruck/archive/Armbian_5.91_Cubietruck_Debian_buster_next_4.19.59.7z
7z e Armbian_5.91_Cubietruck_Debian_buster_next_4.19.59.7z
sudo dd bs=1M if=Armbian_5.91_Cubietruck_Debian_buster_next_4.19.59.img
of=/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

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

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

[install_hauppauge.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/vdradmin.conf
fi
echo "VIDEODIR = /mnt/sda1/video0" >> /var/lib/vdradmin-
am/vdradmin.conf
echo "TM_MARGIN_BEGIN = 10" >> /var/lib/vdradmin-am/vdradmin.conf
sed -i 's/GUEST_ACCOUNT = 0/GUEST_ACCOUNT = 1/g' /var/lib/vdradmin-
am/vdradmin.conf
echo "PASSWORD_GUEST = gast" >> /var/lib/vdradmin-am/vdradmin.conf
echo "USERNAME_GUEST = gast" >> /var/lib/vdradmin-am/vdradmin.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

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

[install_radiorecorder.sh](#)

```
#!/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/radiorecorder_0.3.1.tar.gz  
tar xfz 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

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

[streams.txt](#)

```
NDR2;http://ndr-ndr2-niedersachsen.cast.addradio.de/ndr/ndr2/niedersachsen/mp3/128/stream.mp3
NDR
Kultur;http://ndr-ndrkultur-live.cast.addradio.de/ndr/ndrkultur/live/mp3/128/stream.mp3
NDR
Info;http://ndr-ndrinfo-niedersachsen.cast.addradio.de/ndr/ndrinfo/niedersachsen/mp3/128/stream.mp3
NDR Info
Spezial;http://ndr-ndrinfospezial-live.cast.addradio.de/ndr/ndrinfospezial/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
Deutschlandfunk;https://st01.sslstream.dlf.de/dlf/01/128/mp3/stream.mp3
Deutschlandfunk
Kultur;https://st02.sslstream.dlf.de/dlf/02/128/mp3/stream.mp3
Deutschlandfunk
Nova;https://st03.sslstream.dlf.de/dlf/03/128/mp3/stream.mp3
```

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

[config_webserver.sh](#)

```
#!/bin/bash
sudo su
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

mcedit /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

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

install_samba.sh

```
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
```

DVB-C Adapter debuggen

```
sudo modinfo em28xx_dvb
```

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.fron  
tend0  
/sys/devices/platform/soc@1c00000/lc1c000.usb/usb3/3-1/3-1:1.0/dvb/dvb0.fron  
tend0  
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=1626291214

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