

Installation von GNU Debian 8.x aka Jessie auf dem Cubietruck (ARMv7 AllWinner A20)

Quellen

1. <https://wiki.debian.org/InstallingDebianOn/Allwinner>
2. <http://ftp.uk.debian.org/debian/dists/jessie/main/installer-armhf/current/images/netboot/SD-card-images/>
3. <https://www.debinux.de/2014/12/debian-basics-mit-systemd/>
4. <https://e-tobi.net/blog/2015/09/13/vdr-pakete-fur-raspberrypi>
5. <http://www.milaw.biz/wiki/arch/cubietruck> - Pimp my CubieTruck 🤪

Debian 8.x Jessie Installation

Installation wie in [1] beschrieben durchführen.

```
wget http://ftp.uk.debian.org/debian/dists/jessie/main/installer-armhf/current/images/netboot/SD-card-images/firmware.Cubietruck.img.gz
wget http://ftp.uk.debian.org/debian/dists/jessie/main/installer-armhf/current/images/netboot/SD-card-images/partition.img.gz
zcat firmware.Cubietruck.img.gz partition.img.gz > /dev/sde
```

- Serielles Kabel (FTDI-Kabel) anschließen um die folgenden Schritte auf der Konsole beobachten zu können
- `sudo minicom -b 115200 -o -D /dev/ttyUSB0`
- Cubietruck mit der neu erstellten SD-Karte booten
- Installation nach [1] fortführen
- Reboot

Konfiguration des Grundsystems

```
#login als root via serieller Konsole
apt-get update
apt-get upgrade
apt-get install mc apt-transport-https
dpkg-reconfigure locales
[*] de_DE.UTF-8
[*] en_GB.UTF-8
```

Netzwerkkonfiguration

```
nano /etc/systemd/resolved.conf
[Resolve]
DNS=192.168.100.1
#
ln -sf /run/systemd/resolve/resolv.conf /etc/resolv.conf
#
# falls 'systemd-resolved' schon läuft:
systemctl restart systemd-resolved.service
#
# sonst:
systemctl enable systemd-resolved.service
systemctl start systemd-resolved.service
#
# nach [3]
nano /etc/systemd/network/eth0.network
#
[Match]
Name=eth0
[Network]
Address=192.168.100.3/24
Gateway=192.168.100.1
DNS=192.168.100.1
#
# LAN Schnittstelle abschalten:
ifdown eth0
#
cp /etc/network/{interfaces,interfaces_bak}
cat /dev/null > /etc/network/interfaces
update-rc.d networking remove
systemctl enable systemd-networkd.service
systemctl start systemd-networkd.service
#
# Login für den Benutzer 'root' via SSH ermöglichen:
nano /etc/ssh/sshd_config
...
PermitRootLogin without-password -> PermitRootLogin yes
...
#
```

Sundtek DVB-C Tuner

Installation

```
ssh -l root <VDR-IP>
cd /root
wget http://www.sundtek.de/media/sundtek_netinst.sh
chmod +x sundtek_netinst.sh
```

```
./sundtek_netinst.sh
/opt/bin/mediaclient --dtvtransfermode=bulk -d /dev/dvb/adapter0/frontend0
# Reconnect Tuner #1
/opt/bin/mediaclient --dtvtransfermode=bulk -d /dev/dvb/adapter1/frontend0
# Reconnect Tuner #2
#
# VDR erneut starten wenn DVB-Tuner Treiber geladen sind:
echo "device_attach=service vdr restart" >> /etc/sundtek.conf
```

VDR

Auf keinen Fall die automatisch generierte Kanalkonfiguration (channels.conf für vdr) aus dem Kabel Deutschland Forum verwenden - die Parameter für die HD Sender der Öffentlich-Rechtlichen sind fehlerhaft und bringen den VDR regelmäßig zum Absturz (data stream broken → emergency exit).

```
echo "deb http://e-tobi.net/vdr-experimental jessie base vdr-multipatch" >>
/etc/apt/sources.list
gpg --keyserver keyring.debian.org --recv-keys 041390BC
gpg --armor --export 041390BC | apt-key add -
apt-get update
apt-get install vdr vdr-plugin-streamdev-server vdr-plugin-vnsiserver
vdradmin-am vdr-plugin-epgsearch dvb-apps
#
# VDR und VDRadmin-am Dienst via sytemctl starten:
systemctl start vdr && systemctl start vdradmin-am
#
# VDR und VDRadmin-am Dienst via sytemctl stoppen:
systemctl stop vdr && systemctl stop vdradmin-am
#
```

Sendersuche

```
sudo su
apt-get install w_scan
w_scan -fc -c DE >> channels.conf
```

Konfiguration

```
nano /etc/default/vdradmin-am
... ENABLED="1"
#
nano /etc/vdr/setup.conf
# automatische Kanalsuche abschalten:
UpdateChannels = 0
#
nano /etc/vdradmin-am/vdradmind.conf
LANG =
```

```
LANGUAGE = Deutsch
#
nano /etc/vdr/conf.d/00-vdr.conf
#- - lirc
#- - vfat
#
nano /etc/default/vdr
#VDR_CHARSET_OVERRIDE=ISO-8859-9
#
```

vor und nach Aufnahmen ...

[/etc/vdr/recording-hooks/R90.custom](#)

```
case $1 in
  before)
    # do here whatever you would like to do right BEFORE
    # the recording $2 STARTS
    echo 1 > /sys/class/leds/blue\:ph21\:led1/brightness
    ;;

  started)
    # do here whatever you would like to do right AFTER
    # the recording $2 STARTED
    ;;

  after)
    # do here whatever you would like to do right AFTER
    # the recording $2 ENDED
    echo 0 > /sys/class/leds/blue\:ph21\:led1/brightness
    chmod -R g+w $2/..
    ;;

  edited)
    # do here whatever you would like to do right AFTER
    # the recording $2 has been EDITED
    # $3 is the original recording
    ;;

  deleted)
    # do here whatever you would like to do right AFTER
    # the recording $2 has been DELETED
    ;;

esac
```

Radiorecorder Web GUI

```
sudo su
apt-get install lighttpd streamripper at
systemctl status lighttpd
usermod -G vdr -a www-data
#chown -R www-data:www-data /var/www/html
#chmod -R 775 /var/www/html
# zuerst lighttpd installieren da sonst auf Grund von Abhängigkeiten evtl.
der apache2 Webserver installiert wird!
apt-get install php5-common php5-cgi php5
lighty-enable-mod fastcgi
lighty-enable-mod fastcgi-php
systemctl restart lighttpd
echo "<?php phpinfo(); ?>" >> /var/www/html/phpinfo.php
# Im Browser öffnen: http://<RASPBERRYPI-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/
echo "NDR 2;http://www.ndr.de/resources/metadaten/audio/m3u/ndr2.m3u" >
/var/www/html/radiorecorder/res/streams.txt
echo "NDR
Kultur;http://www.ndr.de/resources/metadaten/audio/m3u/ndrkultur.m3u" >>
/var/www/html/radiorecorder/res/streams.txt
echo "NDR Info;http://www.ndr.de/resources/metadaten/audio/m3u/ndrinfo.m3u"
>> /var/www/html/radiorecorder/res/streams.txt
echo "NDR Info
Spezial;http://www.ndr.de/resources/metadaten/audio/m3u/ndrinfo_spezial.m3u"
>> /var/www/html/radiorecorder/res/streams.txt
echo "N-Joy;http://www.ndr.de/resources/metadaten/audio/m3u/n-joy.m3u" >>
/var/www/html/radiorecorder/res/streams.txt
chown -R www-data:www-data /var/www/html/
chmod -R 775 /var/www/html/
mkdir /mnt/video0/radiorecorder
chown -R vdr:vdr /mnt/video0/radiorecorder/
chmod -R g+w /mnt/video0/radiorecorder/
#
systemctl restart lighttpd
# Im Browser öffnen: http://<RASPBERRYPI-IP/
```

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

settings.php

```
<?php

class Settings {

    public static $siteRoot = '/var/www/html/radiorecorder';
    public static $recordedFilesDestination =
'/mnt/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

```
aptitude install samba
echo "wins server = eth0:192.168.100.1" > /etc/samba/dhcp.conf
adduser christoph
smbpasswd -a christoph
aptitude install cifs-utils
```

Samba Konfiguration

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

#### 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

#===== 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/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

load printers = no
printing = bsd
printcap name = /dev/null
disable spoolss = yes
```

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

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