

Scanbd met een USB Scanner op Raspbian

work in progress

scanner koppelen

koppel de scanner aan de server.

Check of de scanner aanwezig is: `lsusb`

```
root@raspberrypi:~# lsusb
Bus 001 Device 004: ID 03f0:1705 Hewlett-Packard ScanJet 5590
Bus 001 Device 003: ID 0424:ec00 Standard Microsystems Corp. SMSC9512/9514
Fast Ethernet Adapter
Bus 001 Device 002: ID 0424:9512 Standard Microsystems Corp. LAN9500
Ethernet 10/100 Adapter / SMSC9512/9514 Hub
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
root@raspberrypi:~#
```

In dit geval zien we daar de HP ScanJet 5590.

software installeren

de scan software sane met drivers

```
apt-get install sane-utils
apt-get install libsane-hpaio
```

edit de backend file: `vi /etc/sane.d/dll.conf`

en laat alleen net en hp en hp5590 staan.

```
neem de device ID uit het resultaat van lsusb echo "usb 0x03F0 0x1705"
>/etc/sane.d/hp5590.conf
sane-find-scanner
```

als het klopt zie je:

```
found USB scanner (vendor=0x03f0 [Hewlett-Packard], product=0x1705 [hp
scanjet scanner]) at libusb:001:004
```

Test of de scan software met de scanner praat:

```
scanimage -p -x 208 -y 297 -format tiff -mode Color -resolution 300 >
/tmp/testscan2.tif
```

Haal het bestand over en check of de afbeelding klopt.

So far so good.

graphische manipulaite software

```
apt-get install ImageMagick
apt-get install netpbm
```

Scandb

```
apt-get install scanbd
```

```
mkdir -p /etc/scanbd/sane.d
cp /etc/sane.d/* /etc/scanbd/sane.d/
cp /etc/sane.d/hp5590.conf /etc/scanbd/scanner.d/
```

Haal vervolgens in de file `/etc/sane.d/dll.conf` alle entries weg behalve net.

pas vervolgens de net-backend configuratie file aan zodat de sane daemon op localhost luistert.(see scanbd's README.txt for more complicated setups):

```
vi /etc/sane.d/net.conf
```

```
connect_timeout = 3
localhost # scanbm is listening on localhost
```

```
vi /etc/scanbd.conf
```

```
saned_env = { "SANE_CONFIG_DIR=/etc/scanbd/sane.d" } # list of environment
vars for saned
```

```
vi /lib/systemd/system/scanbd.service
```

en verander de sane directory variabele:

```
#Environment=SANE_CONFIG_DIR=/etc/scanbd
Environment=SANE_CONFIG_DIR=/etc/scanbd/sane.d
```

Vervolgens starten we de scan button daemon, en ook na reboots:

```
systemctl enable scanbd.service
systemctl start scanbd.service
systemctl start scanbm.socket
```

kijk nu in de

HMM, nothing happens.....

Knoppen acties definieren

gcc compiler

installeer de nodige development libs:

```
yum install libconfuse-devel gbus-devel sane-backends-devel
```

```
Installed:
  sane-backends-devel.x86_64 0:1.0.24-9.el7
Dependency Installed:
  libieee1284-devel.x86_64 0:0.2.11-15.el7          libjpeg-turbo-
devel.x86_64 0:1.2.90-5.el7
  libtiff-devel.x86_64 0:4.0.3-14.el7          libusb-devel.x86_64
0:1.0.15-4.el7
Complete!
```

Installeer de gcc compiler

```
yum install gcc
```

noteer wat wordt geïnstalleerd voor straks bij het opruimen:

```
Installed:
  gcc.x86_64 0:4.8.3-9.el7
Dependency Installed:
  cpp.x86_64 0:4.8.3-9.el7          glibc-devel.x86_64 0:2.17-78.el7    glibc-
headers.x86_64 0:2.17-78.el7
  kernel-headers.x86_64 0:3.10.0-229.14.1.el7  libmpc.x86_64 0:1.0.1-3.el7
  mpfr.x86_64 0:3.1.1-4.el7
Complete!
```

build de software

haal de sourcecode op en pak die uit:

```
cd /tmp
wget
http://downloads.sourceforge.net/project/scanbd/releases/scanbd-1.4.3.tgz tar
-xvzf scanbd-1.4.3.tgz
cd 1.4.3
```

vervolgens configureren, compileren en installeren:

```
./configure  
make  
make install
```

software afconfigureren

cleanup

Bronnen

https://wiki.archlinux.org/index.php/Scanner_Button_Daemon

https://wiki.debian.org/SaneOverNetwork#Server_Configuration

<https://help.ubuntu.com/community/sane>

heel belangrijk <https://sourceforge.net/p/scanbd/discussion/897647/thread/1ebb0193/>

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