SANE scanning in the network

Introduction

A machine has a scanner attached to it and this resource should be shared in the network. How to configure and install sane

Installation

server and client

The basic package that provides the scan daemon is saned, this needs to be installed on the server and the client

```
aptitude install sane
```

LTSP specfic

If the packages need to be installed on the ltsp client first run the ltsp-chroot command

```
ltsp-chroot -m
apt-get install sane
```

No need to run the ltsp-update-image just yet, as the package needs to be configured

Configuration

server

On the server we need to enable the start of the daemon

/etc/default/saned

```
RUN=yes
```

Configure the network to where it should expose the scanner, adapt to actual configuration

/etc/sane.d/saned.conf

```
192.168.10.0/24
```

and add the saned user to the group lp, or whatever group write permissions are set

```
adduser saned lp
```

restart the saned service

```
service saned stop
service saned start
```

Note for Jessie: the saned service is masked. So:

rm /lib/systemd/system/saned.service

systemctl daemon-reload

systemctl unmask saned.service

systemctl daemon-reload

systemctl restart saned.service

client

Configure the host it should connect to scanners, adapt to actual configuration

/etc/sane.d/net.conf

```
192.168.10.1
```

If the scanner is a HP and connected on the LAN (configured with cups/hplip): install the package `libsane-hpio`.

LTSP specific

Edit the file in the ltsp filesystem

/opt/ltsp/i386/etc/sane.d/net.conf

```
192.168.10.1
```

and now update the image

```
ltsp-update-image
```

Trouble Shooting

no access to device

error message "*Access* to *resource* has been denied"

1. check if the scanner is recognized by the system

   ```
   # as root
   lsusb
   --snip--
   Bus 002 Device 005: ID 03f0:3b17 Hewlett-Packard LaserJet M1005 MFP
   --snip--
   ```

   in this case, look at the permissions of bus 002 and device 005

   ```
   ls -l /dev/bus/usb/002/005
   crw-rw-r--+ 1 root lp 189, 132 Jan 21 12:00 /dev/bus/usb/002/005
   ```

   And see that the process that needs to access the scanner is in the correct group. To change the group, edit the udev rules in /etc/udev/rules.d/