Using a Scanner in a Network

This Howto describes how one can use a scanner which is connected to another Slackware-computer over the network.

Necessary Software

All packages which are necessary are available in a stock Slackware-installation. This are **sane** and **xsane** for the scanner. Also the internet super-server daemon **inetd** is used (on the scannerserver) to listen to the network for scanner-job.

Permissions

I have an older Multifunction-device HP-PSC-1410 which is connected via USB to my server. In order to use the device for scanning (locally or over the network) one has to be member of the **scanner** as well as the **lp**-group. **Note that any user who is added with Slackware's adduser command, is member of this groups by default.**

Configuration of the server

One has to edit the `/etc/sane.d/saned.conf` file. Since the inetd is used to listen to the network the only part one has to configure is the "Access-List". It lists the IP-adresses of the computers which are allowed to access the scanner. It is possible to list single IP-Adresses or the adress of the whole subnet, here I use

```
192.168.98.0/24
```

In the `/etc/inetd.conf` file one needs a line

```
sane-port    stream    tcp    nowait    root.root    /usr/sbin/saned
saned
```

Be sure to have the following line in your /etc/services file

```
sane-port           6566/tcp
```

Afterwards you will have to restart the inetd-daemon

```
/etc/rc.d/rc.inetd restart
```

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2012/12/20
03:11
(UTC)
howtos:network_services:scanning_with_sane_in_a_network https://docs.slackware.com/howtos:network_services:scanning_with_sane_in_a_network

Testing the network-settings for the server

With the nmap command one can scan the ports and find out if the sane-port is open, sane uses port 6566

```
Samsung ~ # nmap -p 6566 192.168.178.10

Starting Nmap 5.21 ( http://nmap.org ) at 2010-11-29 19:54 CET
Nmap scan report for srv-zuhause.home.local (192.168.98.10)
Host is up (0.0031s latency).
PORT      STATE SERVICE
6566/tcp open  unknown
MAC Address: xx:xx:xx:xx:xx:xx (xx Computer)

Nmap done: 1 IP address (1 host up) scanned in 0.23 seconds
```

The command can be executed on the server as well as any client, the ip-adress is the one of the server!

Configuration of the client(s)

On the client one has to edit the `/etc/sane.d/net.conf` file and add a line with the IP-adress of the server.

```
#/etc/sane.d/net.conf
192.168.98.10
```

Theoretically it is possible to insert the DNS-name of the server (instead of it's IP-adress) in the net.conf file, but it didn't work here.

Also be sure that in the file `/etc/sane.d/dll.conf` is a line with the word "net"

```
#/etc/sane.d/dll.conf
# enable the next line if you want to allow access through the network:
net
...
```

Testing the client-configuration

With the command scanimage -L we can check if the scanner is recognized by the system

```
markus@Samsung ~ $ scanimage -L
device `net:192.168.98.10:hpaio:/usb/PSC_1400_series?serial=CN619D724804DZ'
```

```
is a Hewlett-Packard PSC_1400_series all-in-one.
```

Now if you open xsane on the client you should be able to use the scanner.

Sources

* Originally written by Markus Hutmacher

howtos, network, scanner, sane, inetd, multifunction, device, author markush

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Last update: **2012/12/20 03:11 (UTC)**