

CUPS

Cups webinterface

<http://localhost:631/>

By default it uses normal system users and their passwords (root for admin). By default CUPS @**SYSTEM** group is mapped to system **lpadmin** group, so user should be added into **lpadmin** group.

To create internal CUPS users:

```
lppaswd -g lpadmin -a username
```

and file **/etc/cups/passwd.md5** will be created/updated

For more permissions look into **/etc/cups/cupsd.conf**

cups-pdf

</etc/cups/cups-pdf.conf>

```
LogType 7
```

Error: "failed to set file mode" Issue not related to apparmor (not enabled).

Solution:

```
Error is generated by cups-pdf but is relative to ghostscript rights.
Ghostscript seems to need full rights in its temp work dir.
Setting "GSTmp /tmp" instead of "GSTmp /var/tmp" in /etc/cups/cups-pdf.conf
solves the problem for me.
```

Brother DCP-7055W

```
lpadmin -p DCP7055W -v lpd://192.168.179.1/binary_p1 -E -P
/usr/share/cups/model/brother-DCP-7055W-cups-en.ppd
```

Samsung ML-1640

```
apt-get install splix
```

In printer settings, add new network printer. Choose Samsung and ML-1640 model. Device URI:

```
socket://192.168.1.3:9100
```

HP LaserJet Pro MFP M127fw

```
sudo apt-get install hplip-gui
```

New GUI application HPLIP Toolbox will be installed.

- Run app and add network printer using network discovery.
- Let download plugin from Hp server

Network scanner

```
sudo apt-get install sane-utils  
sudo apt-get install snmp-mibs-downloader
```

[/etc/default/saned](#)

```
RUN=yes
```

[/etc/sane.d/saned.conf](#)

```
192.168.0.0/22
```

```
service saned restart
```

```
Failed to restart saned.service: Unit saned.service is masked.
```

Which is correct when systemd is used. Saned service is activated by `saned.socket` on TCP:6566

```
systemctl enable saned.socket
```

Enable proper backend in `/etc/sane.d/dll.conf`

```
scanimage -L
```

```
scanimage > test.ppm
```

Problem is that remote saned clients has to know hpaio driver to use it. So it is not possible to use it on Android.

Options specific to device

```
`hpaio:/net/HP_LaserJet_Pro_MFP_M127fw?ip=192.168.1.107':
```

Scan mode:

- mode Lineart|Gray|Color [Lineart]
Selects the scan mode (e.g., lineart, monochrome, or color).
- resolution 75|100|150|200|300|600|1200dpi [75]
Sets the resolution of the scanned image.
- source Flatbed|ADF [Flatbed]
Selects the scan source (such as a document-feeder).

Advanced:

- brightness -1000..1000 [0]
Controls the brightness of the acquired image.
- contrast -1000..1000 [0]
Controls the contrast of the acquired image.
- compression None|JPEG [JPEG]
Selects the scanner compression method for faster scans, possibly at the expense of image quality.
- jpeg-quality 0..100 [inactive]
Sets the scanner JPEG compression factor. Larger numbers mean better compression, and smaller numbers mean better image quality.

Geometry:

- l 0..215.9mm [0]
Top-left x position of scan area.
- t 0..296.926mm [0]
Top-left y position of scan area.
- x 0..215.9mm [215.9]
Width of scan-area.
- y 0..296.926mm [296.926]
Height of scan-area.

Issue: unable to load library libm.so

Not possible to scan. Every software which is using sane timeouts with:

```
/hp-scan: common/utils.c 188: unable to load library libm.so:
/usr/lib/x86_64-linux-gnu/libm.so: invalid ELF header
xsane: io/hpmud/jd.c 678: timeout read_channel sec=45
hp:/net/HP_LaserJet_Pro_MFP_M127fw?ip=192.168.1.107
xsane: http.c 189: timeout reading data sec_timeout=45
error: SANE: Error during device I/O (code=9)
```

Sane web frontends

<http://www.sane-project.org/sane-frontends.html>

- <https://github.com/sbs20/scanserv>
 - NodeJS based <https://github.com/sbs20/scanservjs>
- <https://sourceforge.net/projects/phpsane/>
 - requires

```
apt-get install php-zip
```

- <https://sourceforge.net/projects/sanewi/>

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