Installation Printers in Debian

Brother driver installation

Download the “Driver Installation tool” from:
https://support.brother.com/g/b/downloadend.aspx?c=nl&lang=nl&prod=mfc9330cdw_us_eu_as&os=128&dlid=dlf006893_000&flang=4&type3=625

The current Brother driver is a 32-bit version and will give error during installation (Package ia32-libs is not available). This package is depreciated and needs to be replaced by alternative.

```
apt-get install lib32z1
apt-get install cups
```

Unwanted Printer discovery

The printer selection dialog of GTK applications is populated by *directly* by Avahi receiving DNS-S, mDNS broadcasts of the remote print server and IPP printers. Whether cups is running or not, this is what happens. In fact, neither CUPS nor cups-browsed is required for the GTK print dialog to function as designed. It does not install print queues. The displayed printers (which are not queues) often do not even print. This is a bug in GTK. A user can do nothing about it.

The following options are available to suppress this unwanted behavior:

1. Disable mDNS protocol on printer

The easiest way to fix the problem is to disable the mDNS protocol in each of the network printers! This will stop printers announcing themselves.

2. Disable Avahi completely

Avahi enables plug-n-play network devices to connect automatically. Since we do not appreciate this we could disable avahi completely:

```
sudo systemctl stop avahi-daemon.service
sudo systemctl disable --now avahi-daemon.service
sudo systemctl mask avahi-daemon.service

sudo systemctl stop avahi-daemon.socket
sudo systemctl disable --now avahi-daemon.socket
sudo systemctl mask --now avahi-daemon.socket
```

In order to re-enable it again:

```
sudo systemctl unmask avahi-daemon.service
sudo systemctl enable --now avahi-daemon.service
sudo systemctl start avahi-daemon.service

sudo systemctl unmask --now avahi-daemon.socket
sudo systemctl enable --now avahi-daemon.socket
sudo systemctl start avahi-daemon.socket
```

4. Limit Avahi deamon

As alternative to completely kill avahi, we can block it from processing mDNS broadcasts.

```
nano /etc/avahi/avahi-daemon.conf
```

In the [server] section, adapt the following:

```
enable-dbus=no

or

use-ipv4=no
use-ipv6=no
```

Then restart the avahi-daemon service.

3. Stops CUPS browsing

In addition to stopping avahi, we can also stop CUPS from browsing for printers:

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