

Installing CUPS Printing & IOS (Air Print) Printing on Arch Linux

I used the wiki for CUPS & AVAHI and of course WA3DSP wiki by phone & email. It's quite possible there are extra steps and packages installed but this is what I did plowing thru the Internet trying to get things working. I'm sure there could be other ways to accomplish the same result. Also be aware that since I'm doing this all on my system that is inside my network I did not really worry about security.

<https://wiki.archlinux.org/index.php/CUPS>

Doug also provided this link which is not for Arch Linux but gave me some perspective:

<https://www.howtogeek.com/169679/how-to-add-a-printer-to-your-raspberry-pi-or-other-linux-computer/>

Note from Doug:

The one thing to remember is the cups system is configured through the web so in that sense it is similar to supermon. Once you set it up and get the server running you connect to it via 127.0.0.1 at the port on your browser. The two links above give some info on what you need to do. The first one is for Arch Linux the second is for Raspbian. The second link is for reference. The instructions are somewhat different for Arch Linux. It does show the web page you will see from your server though.

Install the cups & samba - (pacman -Sy [packagename])

If you are going to install IOS printing also install the following packages:
(pacman -Sy [packagename])

avahi, python2, python2-cups, gtk3, python-dbus, python-gobject, nss-mdns

Configure CUPS:

edit the config file `/etc/cups/cupsd.conf`

Find location and add 'allow from' as below using your LAN's base -

```
# Restrict access to the server...
<Location />
  Order allow,deny
  Allow from 192.168.0.* (in my case 192.168.1.*)
</Location>
```

AND

```
# Only listen for connections from the local machine.
#Listen localhost:631
Listen 0.0.0.0:631
Listen /run/cups/cups.sock
```

I found this note after the fact and note sure if I used this info:

```
cupsctl --remote-admin --remote-any --share-printers
```

It will update the `/etc/cups/cupsd.conf` file and restart cups for you, saving a backup of the previous configuration in the same folder.

Start the service:

```
"systemctl enable org.cups.cupsd.service"
"systemctl start org.cups.cupsd.service"
```

At this point you should be able to run the Web Config for Cups:

In my case the pi running cups was 192.168.1.44 SO <http://192.168.1.44:631>

Using the web tool install and test print your printer(s). Once they are working you can move on the Air Print.

Generate "service" files.

This will generate service files for all the printers you have setup in Cups:

Copy to your system the following script and run it as below:

The link below will open into a script that can be copied and then pasted into an open editor like nano or vi. Save the file as "airprint-generate.py". Then run the script as shown below.

<https://raw.githubusercontent.com/tjfontaine/airprint-generate/master/airprint-generate.py> can be used to generate Avahi service files. It depends on [python2](#) and [python2-pycups](#). The script can be run using:

```
python2 airprint-generate.py -d /etc/avahi/services
```

Start the Avahi service:

```
#systemctl start avahi-daemon.service
```

Additional Optional Install of Complete HP Printer Driver Suite

```
Pacman -Sy hplip
```

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