

Raspberry Pi - Support #610

Network Shared Printer With a Raspberry Pi on Arch

04/30/2015 04:15 PM - Daniel Curtis

Status:	Closed	Start date:	04/30/2015
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:	Print Server	Estimated time:	2.00 hours
Target version:	Arch Linux	Spent time:	5.00 hours

Description

This is a guide for setting up a network shared printer on Arch linux using a Raspberry Pi 2. If installing on an original Raspberry Pi, replace armv7h with armv6h accordingly. The printers used in this guide are A Samsung CLP-310 and a Dymo TwinTurbo

Prepare the Environment

- Make sure the system is up to date:

```
pacman -Syu
```

- Install [yaourt](#)
- Install cups, samba, and some dependencies:

```
pacman -S cups ghostscript gsfonts samba splix
```

- (Optional) Add a few optional packages:

```
pacman -S foomatic-db foomatic-db-engine foomatic-db-nonfree gutenprint
```

- Start and enable cups at boot:

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

- (Optional) Connect to the web interface with an ssh tunnel:

```
ssh -L 6310:localhost:631 printer.example.com
```

- And connect to <http://localhost:6310> in a web browser.

- Install Dymo CUPS Driver:

```
yaourt dymo-cups-driver
```

NOTE: Edit the PKGBUILD file and add armv7h to the arch parameter:

```
arch=('i686' 'x86_64' 'armv6h' 'armv7h')
```

- Printers can be added in the **Administration** section. If prompted for a username/password, the local root account will work. Since I am using a Samsung CLP-310 printer, I will use the Samsung CLP-310, 2.0.0 driver provided by the splix package installed earlier; and the DYMO LabelWriter 450 Twin Turbo driver provided by the Dymo CUPS driver package.

Adding Printers to a Windows Workstation

At this point the printer can be shared to another computer.

1. This is done by going to **Control Panel -> Devices and Printers -> Add Printer** and choosing **Add Network Printer**.
2. Then **Select a Shared printer by Name** and entering http://192.168.0.100:631/printers/Samsung_CLP-310-Series and then using any Samsung PS (PostScript) driver listed.
 - **NOTE:** I used the Samsung CLP-350 PS driver on Windows 7 and it worked perfect.

Setup Windows Shared Printing

- Create a new samba config file:

```
cp /etc/samba/smb.conf.sample /etc/samba/smb.conf
```

- Edit the samba config:

```
nano /etc/samba/smb.conf
```

- And add/modify the following parameter:

```
[global]
    workgroup = EXAMPLE

[printers]
    comment = All Printers
    path = /var/spool/samba
    browseable = no
    # Set public = yes to allow user 'guest account' to print
    guest ok = yes
    writable = no
    printable = yes

[CLP-310]
    comment=Samsung CLP-310 Printer
    printer=clp-310
    path=/var/spool/samba
    printing=cups
    printable=yes
    printer admin=@admin root
    user client driver=yes
    # to allow user 'guest account' to print.
    guest ok=yes
    writable=no
```

- Start and enable samba at boot:

```
systemctl enable samba.service
systemctl start samba.service
```

Resources

- <https://wiki.archlinux.org/index.php/CUPS>
- https://wiki.archlinux.org/index.php/CUPS_printer-specific_problems
- https://wiki.archlinux.org/index.php/CUPS_printer_sharing
- <http://superuser.com/questions/300986/ipp-printing-from-windows-7-ultimate>

History

#1 - 04/30/2015 05:15 PM - Daniel Curtis

- Description updated
- Category set to Print Server
- Status changed from New to In Progress

#2 - 05/01/2015 06:01 PM - Daniel Curtis

- Subject changed from Network Shared Printer With a Raspberry Pi 2 on Arch to Network Shared Printer With a Raspberry Pi on Arch
- Description updated
- % Done changed from 0 to 30

#3 - 05/04/2015 11:34 AM - Daniel Curtis

- Description updated

#4 - 05/04/2015 12:49 PM - Daniel Curtis

- Description updated

#5 - 05/04/2015 01:15 PM - Daniel Curtis

- Description updated
- % Done changed from 30 to 100

#6 - 05/04/2015 01:15 PM - Daniel Curtis

- Status changed from In Progress to Resolved

#7 - 05/10/2015 09:20 AM - Daniel Curtis

- Status changed from Resolved to Closed

#8 - 05/25/2015 11:58 AM - Daniel Curtis

- Description updated

#9 - 07/15/2016 07:42 PM - Daniel Curtis

- Description updated