Cups/Tea4Cups

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What’s CUPS used for?

-CUPS stands for Common UNIX printing System

-CUPS is a printing system that allows computer work as a print server.

-CUPS is a host that allows print jobs to be processed through the backend

-CUPS main components consist of a filter system that converts the print data using a print spooler and scheduler

What’s Tea4cups?

-Tea4Cups is a backend of CUPS that can be modified to capture print jobs and saved them to a allocated directory

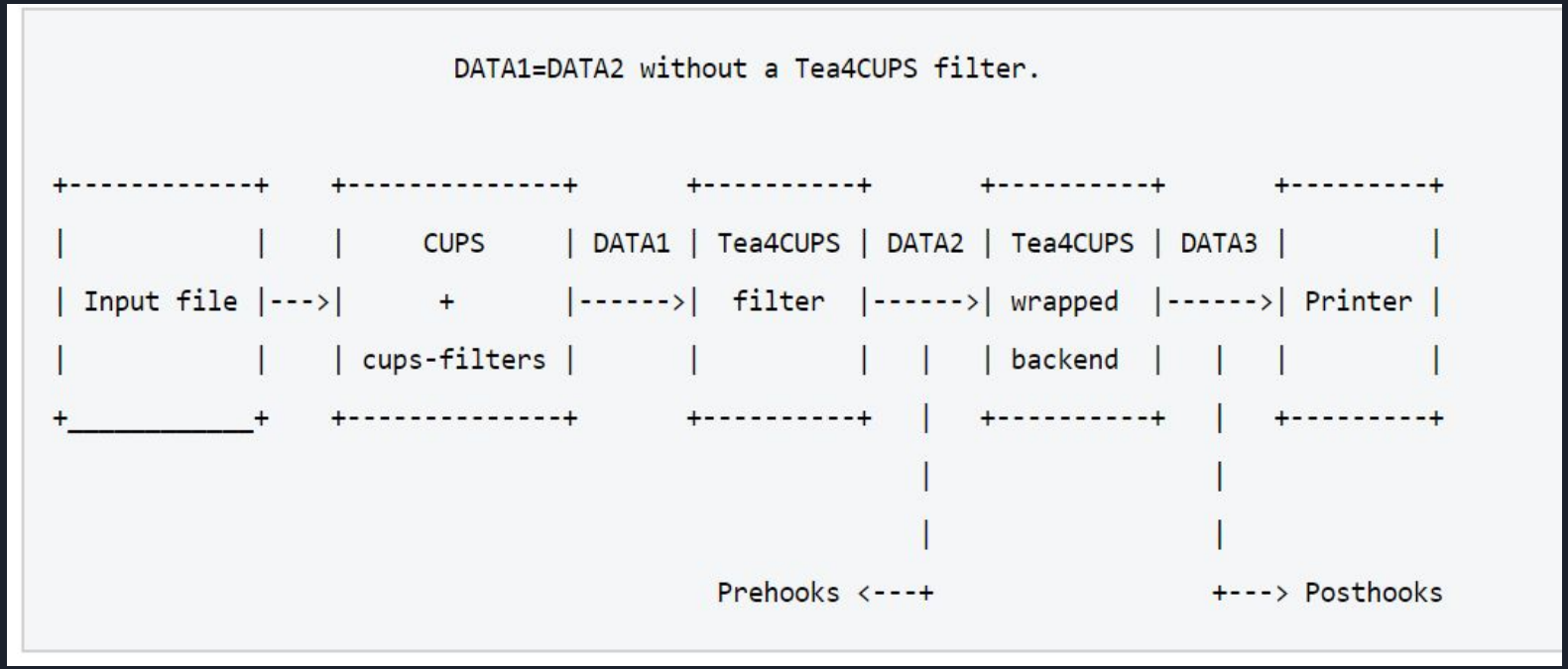
-Tea4Cups can be used to save print jobs as PDF files

-Tea4Cups can be used to monitor print jobs uses. For example how many papers has a user printed that day.

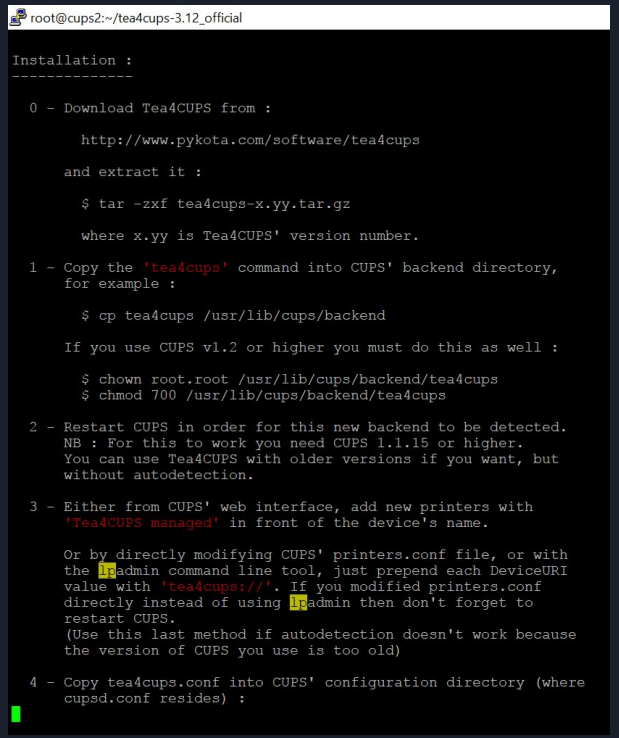
-There are three ways Tea4Cups backend can be modified which are

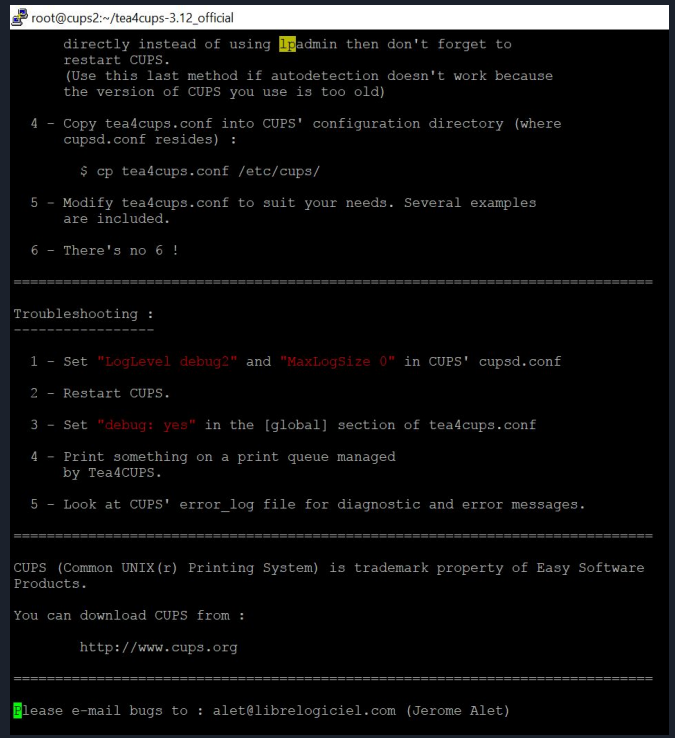
- **Filters**
- **PreHooks**
- **Posthooks**

This is how Tea4Cups backend works



README file of how to install and configure TEA4CUPS and merge it with the backend of CUPS



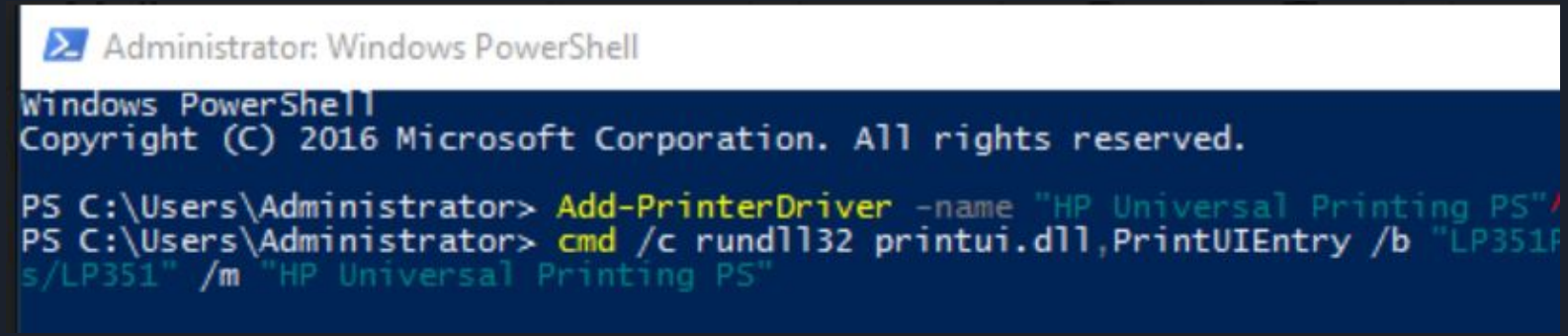


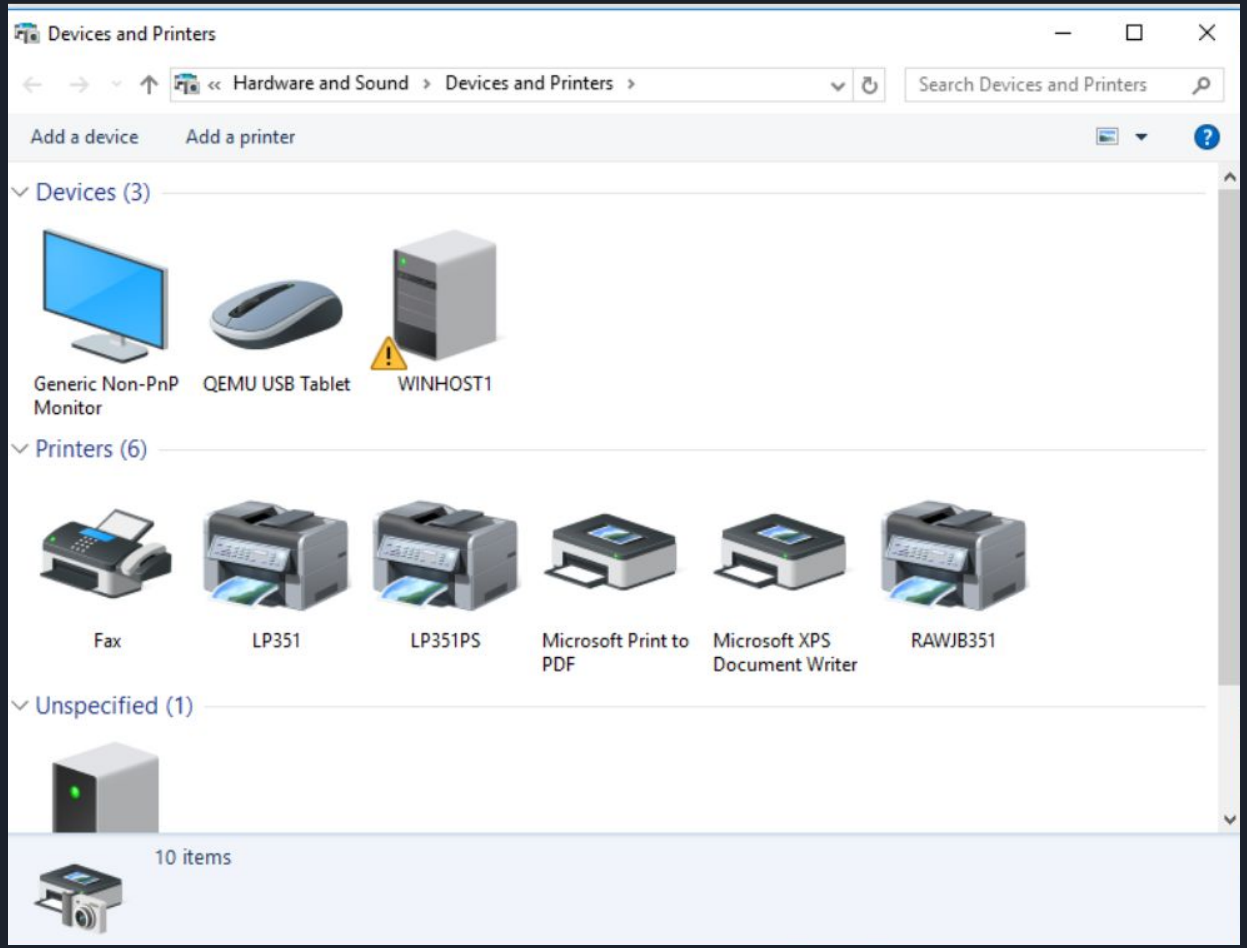
tea4cups.conf

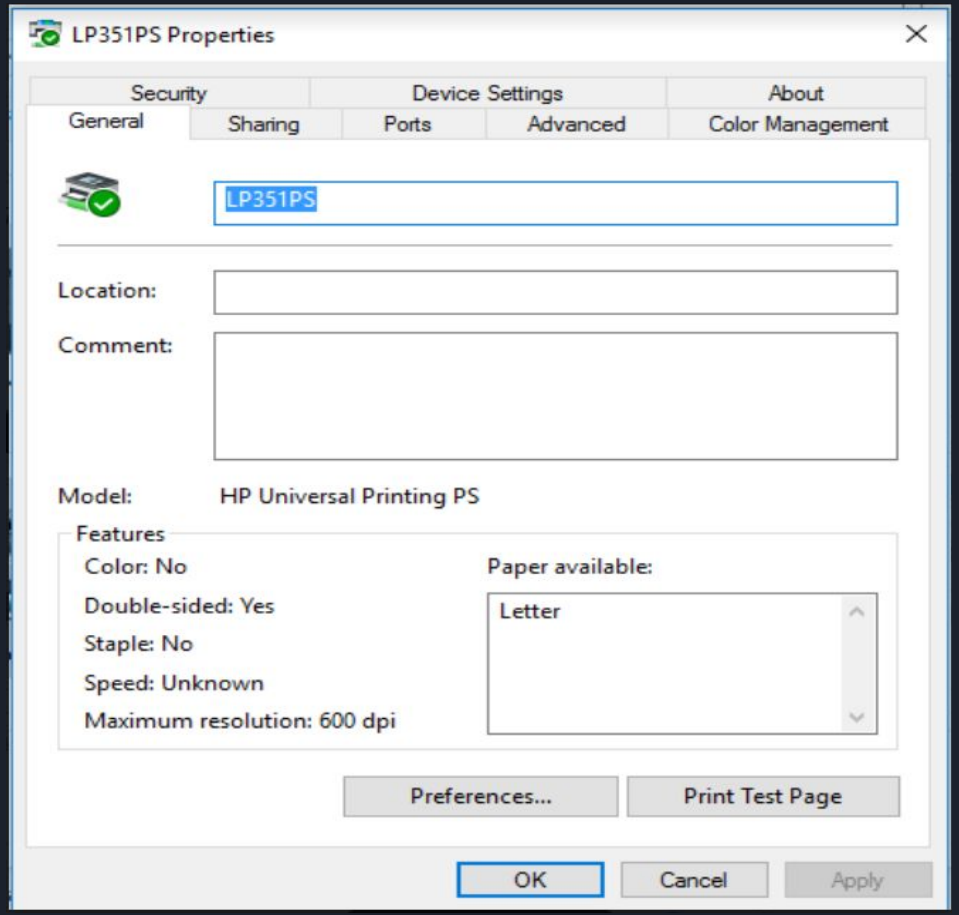
```
[LP351]
#posthook_test : lp -dCups-PDF $TEADATAFILE



# Another example : a PDF generator which creates PDF documents
# in the user's home directory under the names JOB-iiii.pdf
# where iiii is the job id :
#
# Beware : using ~$TEAUSERNAME here doesn't work because the ~ is not expanded.
# NB : for this to work you might have to print with 'lp -o raw'
#
#prehook_rawpdf : /bin/cat $TEADATAFILE | su $TEAUSERNAME -c "ps2pdf - `/usr/bin/getent passwd $TEAUSERNAME | /usr/bin/cut -f 6,6 -
#prehook_rawpdf : /bin/cat $TEADATAFILE | /usr/bin/ps2pdf - /var/spool/cups-pdf/root/$TEAUSERNAME-$TEATITLE-$TEAPRINTERNAME-$TEACOP
prehook_rawpdf : /bin/cat $TEADATAFILE | /usr/bin/ps2pdf - /var/spool/cups-pdf/root/$TEAUSERNAME/$TEAPRINTERNAME/$TEAJOBID.pdf
#
```

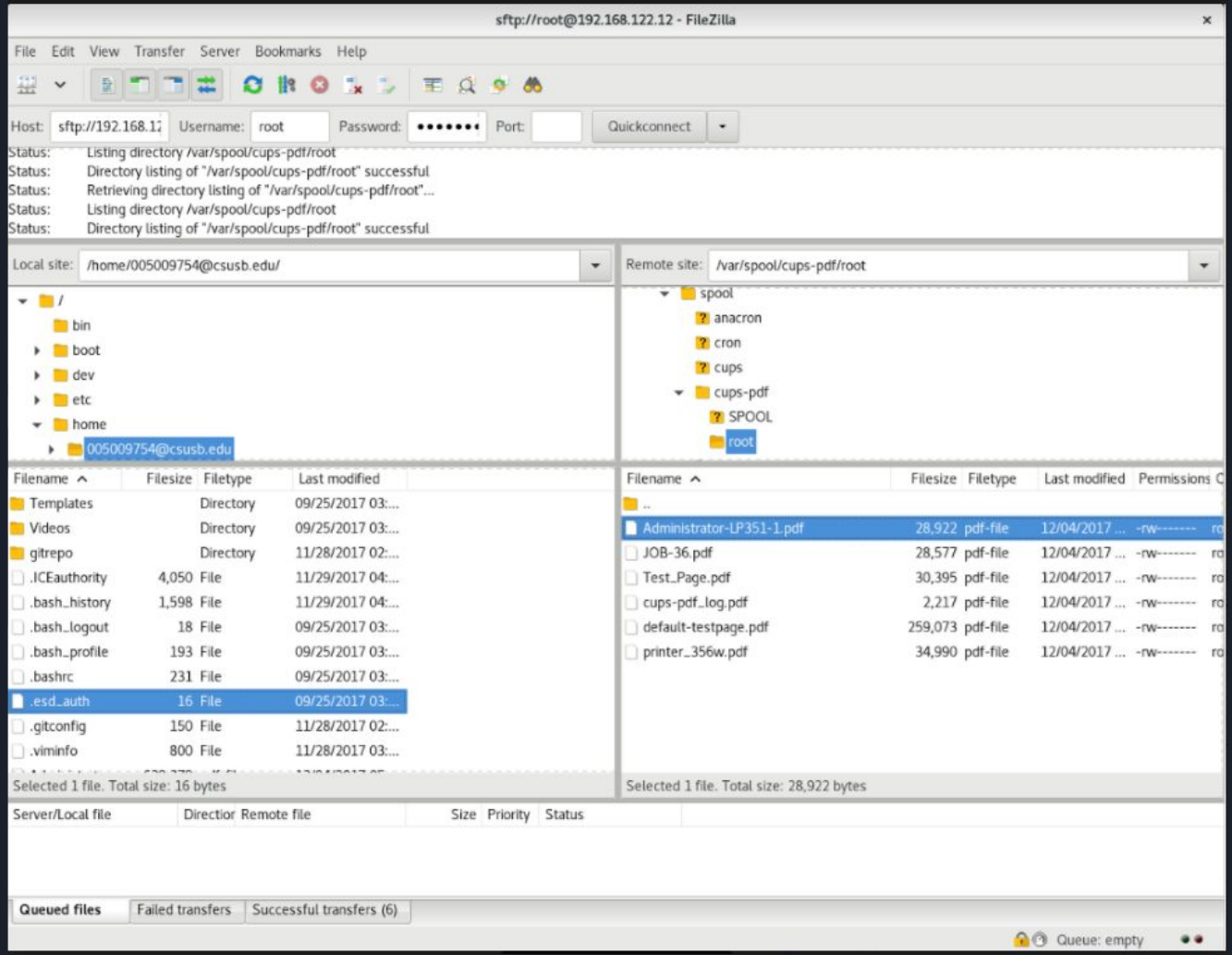
Windows installation

- First to begin printing with windows operating system a designated Postscript driver should be installed and the specific printer must added to CUPS ip addressed.




Devices and Printers
« Hardware and Sound › Devices and Printers ›
Search Devices and Printers
Add a device
Add a printer
Devices (3)
Generic Non-PnP Monitor
QEMU USB Tablet
WINHOST1
Printers (6)
Fax
LP351
LP351PS
Microsoft Print to PDF
Microsoft XPS Document Writer
RAWJB351
Unspecified (1)
10 items


LP351PS Properties
Security
Device Settings
About
General
Sharing
Ports
Advanced
Color Management
LP351PS
Location:
Comment:
Model:
HP Universal Printing PS
Features
Color: No
Double-sided: Yes
Staple: No
Speed: Unknown
Maximum resolution: 600 dpi
Paper available:
Letter
Preferences...
Print Test Page
OK
Cancel
Apply


sftp://root@192.168.122.12 - FileZilla
File Edit View Transfer Server Bookmarks Help
Host: sftp://192.168.1 Username: root Password: Port: Quickconnect
Status: Listing directory /var/spool/cups-pdf/root
Status: Directory listing of "/var/spool/cups-pdf/root" successful
Status: Retrieving directory listing of "/var/spool/cups-pdf/root"...
Status: Listing directory /var/spool/cups-pdf/root
Status: Directory listing of "/var/spool/cups-pdf/root" successful
Local site: /home/005009754@csusb.edu/
/
bin
boot
dev
etc
home
005009754@csusb.edu
Filename Filesize Filetype Last modified
Templates Directory 09/25/2017 03:...
Videos Directory 09/25/2017 03:...
gitrepo Directory 11/28/2017 02:...
.ICEauthority 4,050 File 11/29/2017 04:...
.bash_history 1,598 File 11/29/2017 04:...
.bash_logout 18 File 09/25/2017 03:...
.bash_profile 193 File 09/25/2017 03:...
.bashrc 231 File 09/25/2017 03:...
.esd_auth 16 File 09/25/2017 03:...
.gitconfig 150 File 11/28/2017 02:...
.viminfo 800 File 11/28/2017 03:...
Selected 1 file. Total size: 16 bytes
Remote site: /var/spool/cups-pdf/root
spool
anacron
cron
cups
cups-pdf
SPOOL
root
Filename Filesize Filetype Last modified Permissions
..
Administrator-LP351-1.pdf 28,922 pdf-file 12/04/2017 ... -rw-------
JOB-36.pdf 28,577 pdf-file 12/04/2017 ... -rw-------
Test_Page.pdf 30,395 pdf-file 12/04/2017 ... -rw-------
cups-pdf_log.pdf 2,217 pdf-file 12/04/2017 ... -rw-------
default-testpage.pdf 259,073 pdf-file 12/04/2017 ... -rw-------
printer_356w.pdf 34,990 pdf-file 12/04/2017 ... -rw-------
Selected 1 file. Total size: 28,922 bytes
Server/Local file Direction Remote file Size Priority Status
Queued files Failed transfers Successful transfers (6)
Queue: empty

References

-“Tea4CUPS.” *Tea4CUPS - Debian Wiki*, wiki.debian.org/Tea4CUPS#Text_to_PDF_with_a_Selected_Font.

-“CUPS.” *Wikipedia*, Wikimedia Foundation, 5 Dec. 2017, en.wikipedia.org/wiki/CUPS.

-“PyKota's Home.” *Tea4CUPS' HomePage — PyKota's Home*, www.pykota.com/software/tea4cups.