



from a users point of view ...



CUPS – Applications - acroread



🏂 intel.building_app.p	df (SECURED) - Adobe Reader			
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○ Pa <u>g</u> es 1-107	Fage Size . A4	\	к – – –	
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- GTK print backend
- recognizes printer features
- command line options
- forgets the settings
- Firefox / OpenOffice similar



CUPS – Applications - kprinter



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Printer	
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• can use kprinter as printer gui



CUPS – Applications - kprinter



Print - KPrinter	X Configuration of pubps2 - KPrinter
Print - KPrinter Printer Name: pubps2 State: Idle (accepting jobs) Type: pubps2 Location: Value	General Image Text HP-GL/2 Driver Settings Image Page size: Letter Image Image Image Page size: Letter Image Image Image Page size: Image Image Image Image Image Text HP-GL/2 Driver Settings Image
Comment: HP LaserJet 5/5M PostScript Output file: /afs/desy.de/user/s/schluenz/print.ps	Paper so <u>u</u> rce: Tray 2
Eiles Copies Advanced Options Additional Tags Name Type Path Image: Copies Content	 ● <u>P</u>ortrait ● <u>L</u>andscape ○ <u>R</u>everse landscape ○ R<u>e</u>verse portrait ● <u>N</u>one ○ Long side ○ S<u>h</u>ort side
Print system currently used: CUPS (Common UNIX Print System)	Banners Start: none End: none Pages per Sheet 2 4 4
Server: printsrv5.desy.de:631 Keep this dialog open after printing Options <	<u>Save</u> <u>OK</u> <u>Cancel</u>

• easily set printer and printer options ... works for most other applications as well





😻 (null) Print v4.2.7 - 15 Jul 2004	_ 🗆 🗙	🐱 Setup Printer 📃 🗆 🗙
Preview	Printer Settings Image / Output Settings Printer Name: pubcp1 Printer Model: PostScript Level 2 Setup Printer New Printer	Printer Model: Printer Prin
	Media Size: A4	Command: Ip -s -dpubcp1 -oraw PPD File: Browse
	Resolution: Standard Position Orientation: Auto Left: 0.67 Top: 0.25 Right: 11.03 Bottom: 8.01 Right Border: 0.67	• Gimp (and some others) are special • Options • Command line
Size Scaling: Scale by: Percent PPI Width: 10.36 Height: 7.76 Width: 10.36 Height: 7.76	Center: Vertically Both Horizontally Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size <td< td=""><td>or use kprinter</td></td<>	or use kprinter



📥 Print Jobs for pubps2 - KJobViewer		
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😢 🔊 🦉 🚔 Select Printer	All Printers	,
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- B Show Only Oser Jobs	mpleti – p <u>u</u> bcp3	
24 loot lest lage co	🚔 pu <u>b</u> cp4a0	
	📥 pub <u>c</u> p6	
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	🚔 pubps <u>4</u>	
	🚔 pubps <u>5</u>	
	🚔 pubps <u>6</u>	
	🚔 pubps <u>7</u>	
	🊳 <u>M</u> ail PDF File	
	🍌 Print <u>t</u> o File (PDF)	
	Rint to <u>File</u> (PostScript)	
Keep window permanent		Max.: Unlimited

- User can see jobs, hardly delete them
- won't work for huge number of printers



Select Server via ~/.cups/client.conf:

ServerName cups-hasylab

Most applications need a restart to recognize changes

Set printer options via lpoptions

```
lpoptions -p pubcp1 -o Duplex=false
lpoptions -d pubps2
```

or edit .lpoptions (SL4) / .cups/lpoptions (SL5)

Show printer info via

```
lpoptions -h cups-desy -p pubcp1 -l
lpstat -h cups-it -v
```

Printer optionsDefault printer

Printer optionsAvailable printer







횓 Administration - CUPS 1.3,10 - Mozilla Firefox	
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Add Printer Find New Printers Manage Printers Classes	Edit Configuration File View Access Log View Error Log View Page Log Basic Server Settings:
Add Class Manage Classes	 Show printers shared by other systems Share published printers connected to this system Allow printing from the Internet Allow remote administration Use Kerberos authentication (FAQ) Allow users to cancel any ich (not just their own)
Manage Jobs	 Allow users to cancel any job (not just their own) Save debugging information for troubleshooting Change Settings
Subscriptions Add RSS Subscription	
Done	

- Individual Server for each group (+ generic server)
 - who administrates ?





🔮 Printers - CUPS 1.3.10 - Mozilla Firefox		
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Search in Printers:	Search	Clear
Showing 9 of 9 printers.		
▼ Sort Descending ▼		
pubcp1		
Description: pubcp1 Location: 2a/Pool Printer Driver: Xerox Phaser 7760DN Printer State: idle, accepting jobs, published. Device URI: lpd://spool-lpr/pubcp1 Print Test Page Stop Printer Reject Jobs Move All Jobs Cancel All Jobs Unpublish Printer Modify Print	ter Set Printer Options	Delete Printer
pubcp3		
Image: Constraint of the second se		•

- Adding / Modifying printer rather easy
 - PPD's need to be local !?





🕹 Set Printer Options - CUPS 1.3.10 - Mozilla Firefox		_
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🛅 Most Visited ❤ 🐻 Scientific Linux 📁 Distros ❤		
Set Printer Options Home Administration Classes Documentation/Help Jobs Printers pubcp1: Options Installed		
Memory Configuration: 512 MB Total RAM		
Feature Set: DN →		
Optional Lower Trays: <a>Optional Finisher: Installed Not Installed Optional Finisher:		
Optional Booklet Module: OInstalled Set Printer Options pubcp1: General		
Media Size: A4		
Media Source: Tray 4 💌		
2-Sided Printing: Off Y		*
Done		

- Default setup for individual printer
 - Need sensible definitions \rightarrow no printout (or duplex on transparencies)





Restarting a cups server can take a while

 Cups visits each printer to verify its status

 Printing Applications will freeze until the server is back up

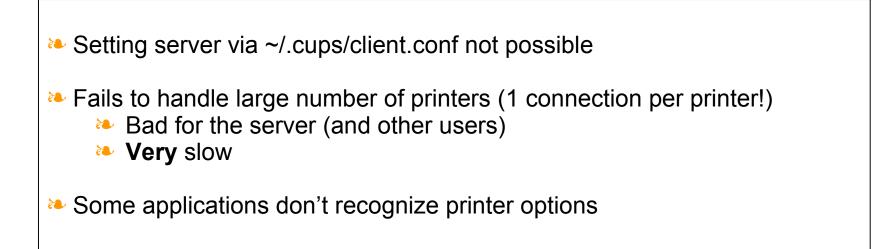
 Takes 10 minutes for the complete list

 Applications like firefox or acroread quest server for port and IP via DNS

 Port mapping via F5 fails in such cases













- Still need to set PPD's / printer options properly
- File type recognition / filter possibly need adjustment
- Setting up different server not final
- no information about performance
- expect the cups server to be operational by ?????
 announcement

Start with new SL 5.3 installations / upgrades

SL4 possibly never

