1.107.2
Manage printers and print queues
Weight 1

Linux Professional Institute Certification — 102

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2005 July

Outline

Topic 107 Printing [3]
Where we are up to

1.107.2 **Manage printers and print queues [1]**

1.107.3 Print files [1]

1.107.4 Install and configure local and remote printers [1]

Candidates should be able to manage print queues and user print jobs. This objective includes monitoring print server and user print queues and troubleshooting general printing problems.

Key files, terms, and utilities include:
1.107.2 Manage printers and print queues

lpc Printing control

lpq Display Print queue

lprm Job removal

lpr Job submission

/etc/printcap — Configuration file

Resources of interest

Printing-HOWTO
Printing-Usage-HOWTO

lpc — Printer Control

- ▶ lpc Is used to control a printer or print job
- ▶ Can be run interactively.
- ▶ Usage is:
  lpc [⟨*command*⟩ [⟨*argument*⟩]]

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`lpc` — Printer Control

Example 1 — Non Interactive:

```
$ lpc status ↩
 Printer              Printing Spooling Jobs  Server Subserver
lp@Node4              enabled  enabled    0    none   none
```

Example 2 — Interactive

```
$ lpc ↩
lpc> status
 Printer              Printing Spooling Jobs  Server Subserver
lp@Node4              enabled  enabled    0    none   none
lpc> quit
```

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LPC Commands

For a complete list of commands, use the command `lpc help`. Some of the more important commands to know are:

abort — Immediately terminate active spool & disable printing

disable — Stop spooling for this printer

enable — Start spooling for this printer

down — Disable spooling & printing

up — Enable spooling & printing

stop — Stop printing after current job is complete

start — Enable spooling & start printing

quit — Exit from interactive mode

help — Show all commands

With the CUPS printing system, `lpc status` is the only command implemented. Use `lpadmin` instead for controlling the queue.

`lpq` — Display Printer Queue

- Every print job is assigned a *job-id*
- You need the job-id to remove or reorder a job in the queue
- lpq shows the job-id along with information about the job.

Usage is:

```
$ lpq [-P printer] [Job-id]
```

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`lpq` — Example

Example — Show all jobs on default Queue

```
# lpq
Printer: lp@Node4 'lp0' (dest HPLjet@node10.aes)
 Queue: 2 printable jobs
 Server: pid 27354 active
 Unspooler: pid 27356 active
 Status: waiting for subserver to exit at 12:22:58.553
 Rank   Owner/ID        Class Job Files    ....
 1      root@Node4+353    A   353 /etc/hosts ....
 2      root@Node4+357    A   357 /etc/ntp.conf ....
Printer: HPLjet@Node10 'lp0' (printing disabled ...
```

lprm — Remove job(s) from Queue

- ▶ lprm is used to remove jobs from a queue
- ▶ jobs can be removed by:
    - ▶ by job-id (use lpq to find out)
    - ▶ by user

Usage is:

```
# lprm [-P printer] [Job-id ...] [user ...]
```

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`lprm` — Example

Example — Remove all jobs owned by root

```
# lprm root
Printer lp@Node4:
  checking perms 'root@Node4+353'
  dequeued 'root@Node4+353'
  checking perms 'root@Node4+357'
  dequeued 'root@Node4+357'
Printer HPLjet@Node10:
# lpq
```

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Show printer queue:
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