Manage printers and print queues

Weight 1

Linux Professional Institute Certification — 102

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Topic 107 Printing [3]
Where we are up to

1.107.2 Manage printers and print queues [1]
1.107.3 Print files [1]
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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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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

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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Example — Remove all jobs owned by root

```bash
# 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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