

1.107.2

Manage printers and print queues

Weight 1

Linux Professional Institute Certification — 102

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Outline

Context

Objective

Resources

Printer control with `lpc`
lpc examples

lpc commands

Show printer queue: `lpq`

`lpq` example

Removing printer jobs: `lprm`

`lprm` example

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Topic 107 Printing [3]

Where we are up to

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Description of Objective

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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:

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`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

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lpc — Printer Control

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

lpc — Printer Control

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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

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- ▶ 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]
```

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

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- ▶ 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 ...]
```

lprm — Example

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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
```

Topics Covered

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