CompTIA Linux+ and LPIC Practice Tests

Chapter 8
Essential System Services (Domain 108)

THE FOLLOWING COMPTIA LINUX+/LPIC-1 EXAM OBJECTIVES ARE COVERED IN THIS CHAPTER:

- ✓ **108.1 Maintain system time**
- Set the system date and time
- Set the hardware clock to the correct time in UTC
- Configure the correct timezone
- Basic NTP configuration
- Knowledge of using the pool.ntp.org service
- Awareness of the ntpq command
- The following is a partial list of the used files, terms and utilities:
- /usr/share/zoneinfo
- /etc/timezone
- /etc/localtime
- /etc/ntp.conf
- date
- hwclock
- ntpd
- ntpdate
- pool.ntp.org
- ✓ **108.2 System logging**
- Configuration of the syslog daemon
- Understanding of standard facilities, priorities and actions
- Configuration of logrotate
- Awareness of rsyslog and syslog-ng
- The following is a partial list of the used files, terms and utilities:
- syslog.conf
- syslogd
- klogd
- /var/log/
- logger
- logrotate
- /etc/logrotate.conf
- /etc/logrotate.d/
- Journalctl
- /etc/systemd/journald.conf

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- Create email aliases
- Configure email forwarding
- Knowledge of commonly available MTA programs (postfix, sendmail, qmail, exim) (no configuration)
- The following is a partial list of the used files, terms and utilities:
- ~/.forward
- sendmail emulation layer commands
- newaliases
- mail
- mailq
- postfix
- sendmail
- exim
- qmail
- ✔ **108.4 Manage printers and printing**
- Basic CUPS configuration (for local and remote printers)
- Manage user print queues
- Troubleshoot general printing problems
- Add and remove jobs from configured printer queues
- The following is a partial list of the used files, terms and utilities:
- CUPS configuration files, tools and utilities
- /etc/cups
- lpd legacy interface (lpr, lprm, lpq)

1. 1. Which of the following commands is used to examine the `systemd` journal or log file?

    1. `journallist`
    2. `ctlj`
    3. `journalctl`
    4. `jctl`

2. 2. Which system logging facility is used for messages from the kernel?

    1. syslog
    2. kernel
    3. kern
    4. system

3. 3. To what server address can you set an NTP client in order to receive time from a regionally local server?

    1. `127.0.0.1`
    2. `192.168.1.100`
    3. `ntp.example.com`
    4. `pool.ntp.org`

4. 4. What is the name of the `systemd` service that provides logging facilities?

    1. `systemd-journald`
    2. `systemd-loggingd`
    3. `systemd-syslog`
    4. `systemd-logger`

5. 5. Which command must you run after making a change to email aliases on a server running Postfix?

    1. `service postfix restart`
    2. `newaliases`
    3. `alias -n`

    4. `postfix -e`

6. 6. Within which directory hierarchy will you find configuration files related to printing with the CUPS printing system?

    1. `/etc/cupsd`

    2. `/etc/cups.d`

    3. `/etc/CUPS`

    4. `/etc/cups`

7. 7. Which access control directive in a CUPS configuration file configures the system to accept connections from the local network with addresses from 192.168.1.1 through 192.168.1.127?

    1. `Allow 192.168.1.0/25`

    2. `Allow 192.168.1.0/24`

    3. `Allow 127.0.0.0/8`

    4. `AllowHosts 192.168.1.0`

8. 8. Which of the following commands will set the date immediately and can be used from the command line in a script?

    1. `ntpd`

    2. `ntpdate pool.ntp.org`

    3. `settime`

    4. `time`

9. 9. When executing the `ntpq` command, you receive a message like "`read: Connection refused`." What would this typically indicate?

    1. The network is down.

    2. The NTP daemon is not running.

    3. The use of NTP is administratively prohibited.

    4. The current user does not have permission to execute `ntpq`.

10. 10. Which command is used to query and work with the hardware clock on the system?

    1. `hwc`

    2. `ntpdate`

    3. `systime`

    4. `hwclock`

11. 11. Within which directory will you find the mail queue on a qmail server?

    1. `/var/spool/qmail`

    2. `/var/qmail/queue`

    3. `/var/spool/mailq`

    4. `/var/spool/qmail/queue`

12. 12. Which syslog level is used to provide informational messages?

    1. kern

    2. emerg

    3. debug

    4. info

13. 13. Within `/etc/ntp.conf`, which of the following configuration lines sets the location of the drift file?

    1. `drift /var/lib/ntp/drift`

    2. `driftfile /var/lib/ntp/drift`

    3. `drift-file /var/lib/ntp/drift`

    4. `driftconfig /var/lib/ntp/drift`

14. **14.** Which configuration option in `/etc/logrotate.conf` will cause the log to be emailed to admin@example.com (http://admin@example.com) when the logrotation process runs for the selected log?

    1. `mail admin@example.com`

    2. `sendmail admin@example.com`

    3. `maillog admin@example.com`

    4. `logmail admin@example.com`

15. **15.** Which of the following commands is used to determine the amount of disk space used by `systemd` journal log files?

    1. `journalctl --disk`

    2. `journalctl -du`

    3. `journalctl --disk-usage`

    4. `journalctl -ls`

16. **16.** Which of the following commands displays the current mail queue on a Postfix server?

    1. `qmail`

    2. `mailqueue`

    3. `mail -q`

    4. `mailq`

17. **17.** When running the NTP daemon, which command can you execute to work with the NTP server in an interactive mode?

    1. `ntpd`

    2. `ntpdate`

    3. `ntpq`

    4. `ntp-interactive`

18. **18.** Assume that you want all email for the root user to be sent to admin@example.com (http://admin@example.com). Which of the following lines in `/etc/aliases` will accomplish this task?

    1. `admin@example.com -> root`

    2. `root -> admin@example.com`

    3. `root, admin@example.com`

    4. `root: admin@example.com`

19. **19.** When working with `klogd`, which option can be used to control the file to which messages are logged?

    1. `-d`

    2. `-f`

    3. `-v`

    4. `-l`

20. **20.** Within which directory will you find configuration files for various logs that are to be rotated with `logrotate`?

    1. `/etc/logrotate`

    2. `/etc/logs`

    3. `/etc/logrotate.d`

    4. `/var/spool/logrotate`

21. **21.** Which of the following commands places a file into the print queue?

    1. `lpr`

    2. `lpd`

3. `lpq`

4. `lpx`

22. 22. Which of the following options to the `sendmail` command will print information about the mail queue?

1. `-bi`

2. `-queue`

3. `-bp`

4. `-f`

23. 23. Which function of the `hwclock` command will set the hardware clock to the current system time?

1. `-w`

2. `-s`

3. `-a`

4. `-m`

24. 24. What is the default port for the CUPS administrative web interface?

1. `tcp/53`

2. `tcp/8080`

3. `udp/456`

4. `tcp/631`

25. 25. Which of the following commands causes sendmail to attempt to deliver the messages in its queue?

1. `sendmail -q`

2. `sendmail -b`

3. `sendmail -f`

4. `sendmail -v`

26. 26. You need to create an email address to accept email for abuse@example.com (http://abuse@example.com). However, you would like to have abuse reports sent to multiple email addresses within your organization. Which of the following will send email destined for the abuse account to admin@example.com (http://admin@example.com) and security@example.com (http://security@example.com)?

1. Create a `.forward` file in the home directory for the abuse user and forward email accordingly.

2. Within `/etc/aliases`, add this: `abuse: admin@example.com,security@example.com`.

3. Create a `.forward` file for root and forward email accordingly.

4. Within `/etc/aliases`, add this: `abuse: admin@example.com\tsecurity@example.com`.

27. 27. Which of the following commands sets the hardware clock to UTC based on the current system time?

1. `hwclock --systohc --utc`

2. `hwclock --systohc --localtime`

3. `hwclock --systohc`

4. `hwclock --systoutc`

28. 28. You need to delete all of the messages from the queue on a postfix server. Which of the following commands will perform this action?

1. `postqueue -remove`

2. `rm -rf`

3. `postfix -f`

4. `postsuper -d ALL`

29. 29. Which of the following URLs can be used to view a list of completed print jobs in CUPS?

   1. http://localhost:631/jobs?which_jobs=completed (http://localhost:631/jobs?which_jobs=completed)

   2. http://localhost:631?completed (http://localhost:631?completed)

   3. http://localhost:631/?completed (http://localhost:631/?completed)

   4. http://cups/jobs=completed (http://cups/jobs=completed)

30. 30. Which option to the journalctl command will continuously update the display as new log entries are created?

   1. -tail

   2. -t

   3. -f

   4. -l

31. 31. Assuming that the $ModLoad imudp configuration option has been set in the configuration for rsyslogd, which of the following additional options is necessary to configure the port on which the server will listen?

   1. $Port 514

   2. $UDPServerRun 514

   3. $Listen 514

   4. $UDPListen 514

32. 32. Which of the following commands causes the mail queue to be processed on a Postfix server?

   1. postqueue -f

   2. postqueue -D

   3. postfix -q

   4. postsuper -q

33. 33. When running ntpd, the server will not adjust or synchronize if the time is skewed from the NTP server by a significant amount of time. Which option to ntpd disables this and causes the synchronization process to continue even if there is large skew?

   1. ntpd -noskew

   2. ntpd -skewcheck=off

   3. ntpd -g 0

   4. ntpd -s 0

34. 34. Which option in journald.conf controls the maximum file size for individual journal logs?

   1. SystemMaxFileSize

   2. MaxFile

   3. LogFileSize

   4. LogSize

35. 35. Which command can be executed to view completed print jobs?

   1. lpstat -q

   2. lpq

   3. lpstat -W completed

   4. lpqueue -c

36. 36. When configuring a log file for rotation, you need to execute a command to run a script after log file rotation. Which option within the configuration can be used to facilitate this behavior?

   1. after-rotate

2. `run-script`

3. `rotatecomplete`

4. `postrotate`

37. **37.** You are deploying an Exim server and need to work with the firewall to ensure that the proper incoming ports are open. Which protocol and port should you allow inbound for normal SMTP traffic?

    1. `TCP/23`

    2. `TCP/25`

    3. `TCP/110`

    4. `TCP/143`

38. **38.** Which command should be executed after making a change to the sendmail access database `/etc/access`?

    1. `makemap`

    2. `makedb`

    3. `newaccess`

    4. `rebuilddb`

39. **39.** When working with `syslog-ng`, which of the following is the correct path and filename for the primary configuration file?

    1. `/etc/syslog-ng/syslog-ng.conf`

    2. `/etc/syslog/syslog-ng.conf`

    3. `/etc/syslog-ng/ng.conf`

    4. `/etc/syslog-ng/ngd.conf`

40. **40.** A developer has created an application and wants to take advantage of syslog for logging to a custom log file. Which facility should be used for an application such as this?

    1. syslog

    2. kern

    3. local#

    4. user

41. **41.** A user needs to work with printer-related items. Which of the following commands adds the user (called username in the options) to the appropriate group for this purpose?

    1. `usermod -aG printerusers username`

    2. `usermod -aG lpadmin username`

    3. `usermod -gA lpadm username`

    4. `usermod -a lpadm username`

42. **42.** Which option within a `logrotate` configuration file disables compression of the log file?

    1. `compressoff`

    2. `limitcompress`

    3. `nocompression`

    4. `nocompress`

43. **43.** Which option to the `date` command can be used to set the date and time?

    1. `date -f`

    2. `date -t`

    3. `date --change`

    4. `date -s`

44. **44.** Which command can be used to gather and display statistics about mail processed on a server running sendmail?

   1. `mailq`
   2. `mailstats`
   3. `statmail`
   4. `sendmailstats`

45. **45.** When running from a shell script, which command enables logging to syslog?

   1. `logd`
   2. `login`
   3. `logit`
   4. `logger`

46. **46.** Which of the following commands can be used to restart CUPS on a server running systemd?

   1. `systemctl restart cups.service`
   2. `systemctl restart cups`
   3. `systemctl reboot cups.target`
   4. `systemctl restart cups.target`

47. **47.** When viewing the syslog configuration, you notice a minus sign (–) preceding several log files. What is the significance of the – in the configuration?

   1. The use of – indicates that the log may be rotated any time.
   2. The use of – indicates that the system can utilize other logging facilities when appropriate.
   3. The use of – omits the disk sync process for every entry into the log.
   4. The use of – comments out the line.

48. **48.** Which option in a CUPS configuration file causes the daemon to listen on all interfaces on port 631?

   1. `Port 631`
   2. `Listen All:631`
   3. `Listen 127.0.0.1:631`
   4. `Port All:631`