Guide to Linux+, Fifth Edition Chapter 2 Solutions

Review Questions

- 1. What is the default shell in Linux called?
 - a. SH
 - b. BSH
 - c. CSH
 - d. BASH

Answer: d

- 2. What equivalent to the man command generally provides an easier-to-read description of the queried command and contains links to other related information?
 - a. who
 - b. man help
 - c. man -descriptive
 - d. info

Answer: d

- 3. What command can you use to safely shut down the Linux system immediately?
 - a. shutdown -c
 - b. shutdown -r
 - c. down
 - d. halt

Answer: d

- 4. What command is equivalent to the man -k keyword command?
 - a. find keyword
 - b. man keyword
 - c. apropos keyword
 - d. appaloosa keyword

Answer: c

- 5. Which of the following is *not* a piece of information that the Fedora installation program prompts you for?
 - a. time zone
 - b. installation destination
 - c. firewall settings
 - d. installation language

Answer: c

- 6. Linux commands entered via the command line are not case sensitive. True or False? Answer: False
- 7. Which command blanks the terminal screen, erasing previously displayed output?
 - a. erase
 - b. clean
 - c. blank
 - d. clear

Answer: d

- 8. When sitting at a computer running Linux, what key combination do you press to open the graphical terminal?
 - a. Ctrl+Alt+G
 - b. Ctrl+Alt+F4

- c. Ctrl+Alt+F1
- d. Ctrl+7

Answer: c

9. To install Linux within a virtual machine, you can specify the path to an ISO image that contains the Linux installation media within virtualization software without having to first write the ISO image to a DVD or USB flash drive. True or False?

Answer: True

- 10. After you log in to a terminal, you receive a user interface called a _____.
 - a. GUID
 - b. shell
 - c. text box
 - d. command screen

Answer: b

- 11. Users enter commands directly to the kernel of the Linux operating system. True or False? Answer: False
- 12. How can you protect a metacharacter (such as the \$ character) from shell interpretation?
 - a. Precede it with a /.
 - b. Follow it with a \setminus .
 - c. Precede it with a \$.
 - d. It cannot be done as metacharacters are essential.
 - e. Precede it with a \setminus .

Answer: e

- 13. You know a Linux command will perform a desired function for you, but you cannot remember the full name of the command. You do remember it will flush a variable from your system. Which command typed at a command prompt displays a list of commands that would likely contain the command you desire?
 - a. man -k flush
 - b. man -k find all
 - c. man flush
 - d. man -key flush

Answer: a

- 14. Which command displays the users who are currently logged in to the Linux system?
 - a. finger
 - b. who
 - c. id
 - d. date

Answer: b

- 15. Which prompt does the root user receive when logged in to the system?
 - a. \$
 - b. @
 - c. #
 - d. !

Answer: c

16. Which prompt do regular users receive when logged in to the system?

- a. \$
- b. @
- c. #
- d. !

Answer: a

- 17. Which of the following refers to the third primary partition on the second SAS hard disk within Linux?
 - a. hdb2
 - b. sda3
 - c. hdb3

d. sdb3

Answer: d

- 18. Which two partitions do you typically create at minimum during a Fedora Linux installation? (Choose two answers.)
 - a. /
 - b. /boot
 - c. swap
 - d. /home

Answer: a, c

19. If you boot your computer from Linux live media, you will be able to use a fully-functional Linux system prior to installing Linux on permanent storage. True or False?

Answer: True

- 20. Which of the following is *not* an example of virtualization software that can be used to install Linux within another operating system?
 - a. Oracle VirtualBox
 - b. Microsoft Hyper-V
 - c. Spiceworks
 - d. VMWare

Answer: c

Hands-on Projects

Project 2-1

Not available.

Project 2-2

Step 1: The \$ prompt as it is the standard prompt for regular user accounts.

Step 2: Not available.

Step 3: The shell is case sensitive; Date is not a valid command name. The error message came from the bash shell.

Step 4: The # prompt as it is the standard prompt for the root user.

Step 5: The root user is logged in to tty5 and user1 is logged in to tty3.

Step 6: No login was required on tty3. The commands are still visible because the session is kept active even if the user is not interacting with it.

Step 7: The exit command ends the shell and returns you to a login prompt.

Step 8: Not available.

Project 2-3

Step 1: GNOME on Wayland is the default GUI environment in Fedora 28.

Step 2: The \$ prompt as it is the standard prompt for regular user accounts.

Step 3: Not available.

Step 4: Yes, the gdm is still available to accept additional graphical logins.

Step 5: Not available.

Step 6: Not available.

Step 7: Not available.

Step 8: The KDE desktop uses navigation similar to the Windows operating system (Start menu-based), whereas the GNOME desktop uses navigation that is more similar to the macOS operating system (top-down menus and a macOS-like dock at the left).

Step 9: Not available.

Step 10: Yes.

Step 11: Not available.

Project 2-4

Step 1: Not available.
Step 2: Not available.
Step 3: Not available.
Step 4: Not available.
Step 5: Not available.
Step 6: Not available.
Step 7: Not available.
Step 9: No, tmux does not create pseudo terminal sessions.
Step 10: Not available.
Step 11: Not available.
Step 12: Not available.
Step 13: Not available.

Project 2-5

Step 1: Not available.
Step 2: The ; character acts as a command terminator allowing you to enter more than one command on the command line before execution.
Step 3: Not available.
Step 4: The single quote character needs protection.
Step 5: Don't do this.
Step 6: Don't do this.
Step 7: /bin/bash was displayed first; nothing was displayed second.
Step 8: You have .50, because \$4 is a nonexistent variable. The \$ character needs to be protected. You can protect \$ using single quotation marks or a backslash character.
Step 9: You have \$4.50. Yes.
Step 10: You have \$4.50. Yes.
Step 12: The backquotes perform command substitution.
Step 13: Not available.

Project 2-6

Step 1: Not available.
Step 2: There are 3 different manual pages for crontab (2 commands and 1 file format).
Step 3: Not available.
Step 4: Not available.
Step 5: Not available.
Step 6: Not available.
Step 7: Not available.
Step 8: Not available.
Step 9: Not available.
Step 9: Not available.

Project 2-7

Step 1: Not available. Step 2: The halt, shutdown -H now and shutdown -P now commands.

Discovery Exercises

Discovery Exercise 1

Answers will vary. The command used is **man** –**k** copy or **apropos copy**. Commands that only the root user can execute are indicated with (8) and there are several of them. The remainder of this Discovery Exercise will vary.

Discovery Exercise 2

The correct commands are:

echo "This command does not work properly" (echo must be spelled with a lowercase e) date (the date command does not take a -z option)

apropos man (the apropos and man -k commands are identical in function but are separate commands) man date (date is not a shell function - cannot use help)

shutdown -h now or shutdown -r now (the -c option to shutdown cancels a shutdown; however, the -h and -r options can be used to reboot or halt)

echo 'I would like lots of \$\$\$' (the \$ character is a shell metacharacter that needs to be protected)

man 1 date (date is in section 1 of the manual pages)