

***Linux Essentials for Cybersecurity (Rothwell/Kinsey)***

**Chapter 2 Working on the Command Line**

1) Linux offers \_\_\_\_\_ of command-line utilities, each of which is designed to perform a specific task.

- A) dozens
- B) hundreds
- C) thousands
- D) millions

Answer: C

2) In Linux, every storage location, including remote drives and removable media, is accessible under the top-level directory, which is named \_\_\_\_\_.

- A) root (/)
- B) C:
- C) home
- D) bin

Answer: A

3) Which of the following Filesystem Hierarchy Standard (FHS) locations contains configuration files for a Linux system?

- A) /lib
- B) /home
- C) /mnt
- D) /etc

Answer: D

4) Which of the following provides additional information for a shell command, such as a filename or user account name, to determine which specific action to take?

- A) Argument
- B) Variable
- C) Option
- D) None of the above

Answer: A

5) To execute a sequence of shell commands, separate each command with a \_\_\_\_\_ and press the Enter key after the last command has been entered.

- A) colon
- B) semicolon
- C) comma
- D) period

Answer: B

6) Which of the following shell commands is used to move the shell's current directory to another directory?

- A) pwd
- B) cd
- C) ls
- D) file

Answer: B

7) Which of the following, also known as a wildcard, refers to any character provided on the command line that represents a portion of a filename?

- A) Option
- B) Variable
- C) File glob
- D) Argument

Answer: C

8) Which of the following shell commands is used to display large chunks of text data, pausing after displaying the first page of information?

- A) less
- B) more
- C) file
- D) head

Answer: A

9) Which of the following shell commands is used to create a new directory?

- A) ls
- B) cd
- C) pwd
- D) mkdir

Answer: D

10) Which option for the cp shell command copies an entire directory structure?

- A) -v
- B) -r
- C) -i
- D) -n

Answer: B

11) Which of the following commands is used to delete a directory and all the files within the directory?

- A) rm -i
- B) rmdir
- C) rm -r
- D) rm -v

Answer: C

12) Which of the following shell commands is useful for updating the timestamps of critical files for inclusion in automated system backups?

- A) touch
- B) file
- C) mv
- D) cp

Answer: A

13) Which of the following shell commands is used to display information, such as the value of variables?

- A) tail
- B) set
- C) unset
- D) echo

Answer: D

14) Which of the following shell variables defines the primary prompt, often using special character sequences?

- A) PS1
- B) ID
- C) HOME
- D) PATH

Answer: A

15) To pass variables and their values in to other commands, convert an existing local variable to an environment variable with the \_\_\_\_\_ command.

- A) crontab
- B) env
- C) export
- D) echo

Answer: C

16) When a user starts a new shell after initially logging in to the system, it is referred to as a \_\_\_\_\_.

- A) bash profile
- B) non-login shell
- C) bash login
- D) login shell

Answer: B

17) Which of the following refers to a shell feature that allows a collection of commands to be executed by issuing a single command?

- A) unalias
- B) alias
- C) copy
- D) initialization

Answer: B

18) Which variable for the history command is used to set a numeric value that represents the maximum number of commands to keep in the history list?

- A) HISTCONTROL
- B) HISTIGNORE
- C) HISTFILE
- D) HISTSIZE

Answer: D

19) Which of the following is *not* true regarding regular expressions (REs)?

- A) Utilities that use REs normally support basic REs by default and have some option or feature to enable extended REs.
- B) There are two types of REs: basic and extended.
- C) Extended REs are the “original,” and basic REs are the newer additions.
- D) Although documentation may refer to basic REs as obsolete, they are still used by most modern utilities.

Answer: C

20) Which of the following compression commands is used to merge multiple files into a single file?

- A) gzip
- B) tar
- C) bzip2
- D) xz

Answer: B