

Name

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Class

Date

: _____ : _____ e: _____

Chapter 02: Linux Installation and Usage

True / False

1. A swap partition contains a filesystem.

- a. True
- b. False

ANSWER: False
POINTS: 1
REFERENCES: 52
QUESTION TYPE: True / False
HAS VARIABLES: False
DATE CREATED: 1/28/2015 10:30 AM
DATE MODIFIED: 1/28/2015 10:30 AM

2. When a user interacts with his computer, he interacts directly with the kernel of the computer's operating system.

- a. True
- b. False

ANSWER: False
POINTS: 1
REFERENCES: 58
QUESTION TYPE: True / False
HAS VARIABLES: False
DATE CREATED: 1/28/2015 10:30 AM
DATE MODIFIED: 2/7/2015 12:51 PM

3. At minimum, Linux typically requires only two partitions to be created: a partition that is mounted to the root directory, and a partition for virtual memory.

- a. True
- b. False

ANSWER: True
POINTS: 1
REFERENCES: 54
QUESTION TYPE: True / False
HAS VARIABLES: False
DATE CREATED: 2/7/2015 12:00 AM
DATE MODIFIED: 2/7/2015 12:03 AM

4. In the past, SATA hard disks were referred to as Integrated Drive Electronics (IDE).

- a. True
- b. False

ANSWER: False
POINTS: 1
QUESTION TYPE: True / False

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<i>HAS VARIABLES:</i>	False
<i>DATE CREATED:</i>	2/8/2015 2:47 PM
<i>DATE MODIFIED:</i>	2/8/2015 2:47 PM

5. By default, Fedora 20 allows the root user to log into the GNOME desktop.

- a. True
- b. False

<i>ANSWER:</i>	False
<i>POINTS:</i>	1
<i>REFERENCES:</i>	60
<i>QUESTION TYPE:</i>	True / False
<i>HAS VARIABLES:</i>	False
<i>DATE CREATED:</i>	2/9/2015 9:53 PM
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Multiple Choice

6. What installation media source is the most common source for Linux packages?

- a. DVD
- b. NFS
- c. hard disk
- d. CD-ROM

<i>ANSWER:</i>	a
<i>POINTS:</i>	1
<i>REFERENCES:</i>	45
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>DATE CREATED:</i>	1/28/2015 10:30 AM
<i>DATE MODIFIED:</i>	2/7/2015 12:55 PM

7. What is the minimum number of user accounts that must be created at install time?

- | | |
|----------|---------|
| a. one | b. two |
| c. three | d. four |

<i>ANSWER:</i>	b
<i>POINTS:</i>	1
<i>REFERENCES:</i>	57
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>DATE CREATED:</i>	1/28/2015 10:30 AM
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8. A hard drive or SSD can be divided into partitions. What is the maximum number of primary partitions that can be used on these devices?

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- | | | | |
|----|----|----|----|
| a. | 4 | b. | 8 |
| c. | 16 | d. | 32 |

ANSWER: a
 POINTS: 1
 REFERENCES: 52
 QUESTION TYPE: Multiple Choice
 HAS VARIABLES: False
 DATE CREATED: 1/28/2015 10:31 AM
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9. What is the recommended size for the /home directory?

- | | | | |
|----|--------|----|---------|
| a. | 100 MB | b. | 200 MB |
| c. | 500 MB | d. | 1000 MB |

ANSWER: b
 POINTS: 1
 REFERENCES: 55
 QUESTION TYPE: Multiple Choice
 HAS VARIABLES: False
 DATE CREATED: 1/28/2015 10:31 AM
 DATE MODIFIED: 2/7/2015 1:07 PM

10. Under the root directory in Linux, which directory contains system commands and utilities?

- | | | | |
|----|-------|----|------|
| a. | /opt | b. | /var |
| c. | /boot | d. | /usr |

ANSWER: d
 POINTS: 1
 REFERENCES: 55
 QUESTION TYPE: Multiple Choice
 HAS VARIABLES: False
 DATE CREATED: 1/28/2015 10:31 AM
 DATE MODIFIED: 2/7/2015 1:10 PM

11. After logging into a terminal, a user will receive an interface known as which option below?

- | | | | |
|----|-------------|----|----------------|
| a. | processor | b. | user interface |
| c. | swap memory | d. | shell |

ANSWER: d
 POINTS: 1
 REFERENCES: 58
 QUESTION TYPE: Multiple Choice
 HAS VARIABLES: False
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12. When using command-line terminal, specific letters that start with a dash ("-") and appear after command names are considered to be:

- a. Arguments
- b. Options
- c. Keywords
- d. Metacharacters

ANSWER:

b

POINTS:

1

REFERENCES:

61

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

False

DATE CREATED:

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13. Which Linux command can be utilized to display your current login name?

- a. who
- b. whoami
- c. id
- d. w

ANSWER:

b

POINTS:

1

REFERENCES:

62

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

False

DATE CREATED:

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2/7/2015 1:16 PM

14. After a shell is no longer needed, what command can be given to exit the shell?

- a. exit
- b. stop
- c. reset
- d. quit

ANSWER:

a

POINTS:

1

REFERENCES:

62

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

False

DATE CREATED:

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DATE MODIFIED:

2/7/2015 1:17 PM

15. A calendar for the current month can be shown on the command line by issuing which command?

- a. date
- b. cal
- c. w
- d. id

ANSWER:

b

POINTS:

1

REFERENCES:

62

QUESTION TYPE:

Multiple Choice

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HAS VARIABLES: False
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16. What metacharacter indicates background command execution?

- a. @
- b. ^
- c. &
- d. !

ANSWER: c
POINTS: 1
REFERENCES: 63
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 1/28/2015 10:31 AM
DATE MODIFIED: 2/7/2015 1:20 PM

17. What metacharacter can be used to issue two commands to be run in consecutive order, without piping or redirecting output?

- a. \
- b. &
- c. ;
- d. |

ANSWER: c
POINTS: 1
REFERENCES: 79
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 1/28/2015 10:31 AM
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18. The apropos list command produces the same results as which command below?

- a. man -j list
- b. man -k list
- c. man -l list
- d. man -m list

ANSWER: b
POINTS: 1
REFERENCES: 67
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 1/28/2015 10:31 AM
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19. In Fedora 20, what terminal is used for graphical login?

- a. tty0
- b. tty1
- c. tty2

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d. tty4

ANSWER: b
POINTS: 1
REFERENCES: 59
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 2/9/2015 9:54 PM
DATE MODIFIED: 2/9/2015 9:55 PM

20. What directory under / contains the log files and spools for a Linux system?

- a. /boot
- b. /usr
- c. /opt
- d. /var

ANSWER: d
POINTS: 1
REFERENCES: 55
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 2/9/2015 9:57 PM
DATE MODIFIED: 2/9/2015 9:58 PM

21. Select the utility below that when run will start and perform a thorough check of RAM for hardware errors:

- a. memcheck68
- b. memtest86
- c. fixram
- d. fsck

ANSWER: b
POINTS: 1
REFERENCES: 49
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 2/9/2015 9:58 PM
DATE MODIFIED: 2/9/2015 9:59 PM

22. Some Linux distributions have the ability to boot an image from install media and run entirely from RAM. What is the name for this kind of image?

- a. open media image
- b. live media image
- c. runtime media image
- d. forensic media image

ANSWER: b

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POINTS:	1
REFERENCES:	45
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
DATE CREATED:	2/9/2015 10:01 PM
DATE MODIFIED:	2/9/2015 10:02 PM

23. Prior to performing an installation of Linux, the hardware components of the target system should be checked against what known compatible list below?

- Software / Hardware List (SHL)
- Known Working Devices (KWD)
- Hardware Compatibility List (HCL)
- Compatible Hardware List (CHL)

ANSWER:	c
POINTS:	1
REFERENCES:	44
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
DATE CREATED:	2/9/2015 10:03 PM
DATE MODIFIED:	2/9/2015 10:07 PM

24. What term describes the physical hardware and the underlying operating system upon which a virtual machine runs?

- virtual gateway
- virtual leader
- virtual host
- virtual center

ANSWER:	c
POINTS:	1
REFERENCES:	46
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
DATE CREATED:	2/9/2015 10:07 PM
DATE MODIFIED:	2/9/2015 10:08 PM

25. The Linux kernel exists as a file named:

- vmlinuz
- vmlinux
- kernel.0
- kern.linux

ANSWER:	a
POINTS:	1
REFERENCES:	57

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<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>DATE CREATED:</i>	2/9/2015 10:10 PM
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Completion

26. A(n) _____ specifies the parameters that tailor a command to the particular needs of the user.

<i>ANSWER:</i>	argument
<i>POINTS:</i>	1
<i>REFERENCES:</i>	61
<i>QUESTION TYPE:</i>	Completion
<i>HAS VARIABLES:</i>	False
<i>STUDENT ENTRY MODE:</i>	Basic
<i>DATE CREATED:</i>	1/28/2015 10:31 AM
<i>DATE MODIFIED:</i>	2/7/2015 1:29 PM

27. To print the current date and time, type the command _____.

<i>ANSWER:</i>	date
<i>POINTS:</i>	1
<i>REFERENCES:</i>	61
<i>QUESTION TYPE:</i>	Completion
<i>HAS VARIABLES:</i>	False
<i>STUDENT ENTRY MODE:</i>	Basic
<i>DATE CREATED:</i>	1/28/2015 10:31 AM
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28. In Linux, the command _____ displays currently logged-in users.

<i>ANSWER:</i>	who
<i>POINTS:</i>	1
<i>REFERENCES:</i>	62
<i>QUESTION TYPE:</i>	Completion
<i>HAS VARIABLES:</i>	False
<i>STUDENT ENTRY MODE:</i>	Basic
<i>DATE CREATED:</i>	1/28/2015 10:31 AM
<i>DATE MODIFIED:</i>	2/7/2015 1:31 PM

29. The process of _____ requires that each user must log in with a valid user name and password before gaining access to a user interface.

<i>ANSWER:</i>	authentication
<i>POINTS:</i>	1
<i>REFERENCES:</i>	56
<i>QUESTION TYPE:</i>	Completion

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<i>HAS VARIABLES:</i>	False
<i>STUDENT ENTRY MODE:</i>	Basic
<i>DATE CREATED:</i>	2/7/2015 1:32 PM
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30. Older systems often use _____ hard disks that physically connect to the computer in one of four different configurations.

<i>ANSWER:</i>	Parallel Advanced Technology Attachment (PATA)
<i>POINTS:</i>	1
<i>REFERENCES:</i>	51
<i>QUESTION TYPE:</i>	Completion
<i>HAS VARIABLES:</i>	False
<i>STUDENT ENTRY MODE:</i>	Basic
<i>DATE CREATED:</i>	2/7/2015 1:39 PM
<i>DATE MODIFIED:</i>	2/7/2015 1:40 PM

Subjective Short Answer

31. Describe virtual memory, and explain how it is used.

<i>ANSWER:</i>	Virtual memory consists of an area on the hard disk that, when the physical memory (RAM) is being used excessively, can be used to store information that would normally reside in the physical memory. When programs are executed that require a great deal of resources on the computer, information is continuously swapped from the physical memory to the virtual memory on the hard disk, and vice versa.
<i>POINTS:</i>	1
<i>REFERENCES:</i>	54
<i>QUESTION TYPE:</i>	Subjective Short Answer
<i>HAS VARIABLES:</i>	False
<i>STUDENT ENTRY MODE:</i>	Basic
<i>DATE CREATED:</i>	1/28/2015 10:31 AM
<i>DATE MODIFIED:</i>	2/7/2015 1:43 PM

32. Explain what a journaling file system is, and detail the benefits of using such a filesystem.

<i>ANSWER:</i>	A journaling filesystem keeps track of the information written to the hard disk in a journal. If you copy a file on the hard disk from one directory to another, that file must pass into physical memory and then be written to the new location on the hard disk. If the power to the computer is turned off during this process, information might not be transmitted as expected and data might be lost or corrupted. With a journaling filesystem, each step required to copy the file to the new location is first written to a journal; this means the system can retrace the steps the system took prior to a power outage and complete the file copy.
<i>POINTS:</i>	1
<i>REFERENCES:</i>	54-55
<i>QUESTION TYPE:</i>	Subjective Short Answer

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HAS VARIABLES: False

STUDENT ENTRY Basic

MODE:

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33. Describe what a terminal is, and detail why it is necessary.

ANSWER: A terminal is the channel that allows a certain user to log in to a Linux kernel, and there can be many terminals in Linux that allow you to log in to the computer locally or across a network. After a user logs in to a terminal, she receives a user interface called a shell, which then accepts input from the user and passes this input to the kernel for processing. Since Linux is a multiuser and multitasking operating system, thousands of terminals can be used. Each terminal can represent a separate logged-in user that has its own shell.

POINTS: 1

REFERENCES: 58

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

STUDENT ENTRY Basic

MODE:

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34. Explain what a metacharacter is, and detail the significance of the \$ metacharacter.

ANSWER: A metacharacter is a keyboard characters that has a special meaning. One of the most commonly used metacharacters is the \$ character, which tells the shell that the following text refers to a variable. A variable is simply a piece of information that is stored in memory; variable names are typically uppercase words and most variables are set by the Linux system automatically when you log in.

POINTS: 1

REFERENCES: 63

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

STUDENT ENTRY Basic

MODE:

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35. Explain what the man pages and info pages are, and describe the differences between the two.

ANSWER: The most common form of documentation for Linux commands is manual pages (commonly referred to as man pages). Simply type the man command followed by a command name, and extensive information about that Linux command is displayed page-by-page on the terminal screen. This information includes a description of the command and its syntax as well as available options, related files, and commands.

Another utility, originally intended to replace the man command in Linux, is the GNU info pages. You can access this utility by typing the info command followed by the name of the command in

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question. The info command returns an easy-to-read description of each command and also contains links to other information pages (called hyperlinks). Today however, both the info pages and the manual pages are used to find documentation because manual pages have been utilized in Linux since its conception and for over two decades in the UNIX operating system.

POINTS: 1

REFERENCES: 64
67

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

STUDENT ENTRY Basic

MODE:

DATE CREATED: 1/28/2015 10:31 AM

DATE MODIFIED: 2/7/2015 2:45 PM

Matching

Match each correct item with the statement below.

- | | |
|-----------------------------|-------------------------|
| a. BASH shell | b. ext4 |
| c. filesystem | d. GUID Partition Table |
| e. ISO image | f. journaling |
| g. Master Boot Record (MBR) | h. shell |
| i. terminal | j. virtual memory |

REFERENCES: 71-73

QUESTION TYPE: Matching

HAS VARIABLES: False

DATE CREATED: 2/6/2015 11:40 PM

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36. An improved version of the ext3 filesystem, with an extended feature set and better performance

ANSWER: b

POINTS: 1

37. Also known as the Bourne Again Shell, this is the default command-line interface in Linux

ANSWER: a

POINTS: 1

38. The area of a large hard disk (> 2TB) outside a partition that stores partition information and boot loaders

ANSWER: d

POINTS: 1

39. The channel that allows a certain user to log in and communicate with the kernel via a user interface

ANSWER: i

POINTS: 1

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40. The area of a typical hard disk (< 2TB) outside a partition that stores partition information and boot loaders

ANSWER: g

POINTS: 1

41. The way in which a hard disk or SSD partition is formatted to allow data to reside on the physical media.

ANSWER: c

POINTS: 1

42. A filesystem function that keeps track of the information that needs to be written to the hard disk or SSD in a journal.

ANSWER: f

POINTS: 1

43. An area on a hard disk or SSD (swap partition) that can be used to store information that normally resides in physical memory (RAM), if the physical memory is being used excessively.

ANSWER: j

POINTS: 1

44. A user interface that accepts input from the user and passes the input to the kernel for processing.

ANSWER: h

POINTS: 1

45. A file that contains the content of a DVD.

ANSWER: e

POINTS: 1

Multiple Response

46. Which filesystems below perform journaling?

- a. VFAT
- b. REISER
- c. ext2
- d. ext4

ANSWER: b, d

POINTS: 1

REFERENCES: 54

QUESTION TYPE: Multiple Response

HAS VARIABLES: False

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47. What two disk systems allow for the use of more than four hard drives or SSDs in a single system?

- a. SATA
- b. SCSI
- c. PATA

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d. SAN

ANSWER: a, b
 POINTS: 1
 REFERENCES: 52
 QUESTION TYPE: Multiple Response
 HAS VARIABLES: False
 DATE CREATED: 2/7/2015 1:37 PM
 DATE MODIFIED: 2/7/2015 1:38 PM

48. What two commands below will halt a Linux system immediately?

- a. shutdown -H now
- b. shutdown -r now
- c. halt
- d. poweroff

ANSWER: a, c
 POINTS: 1
 REFERENCES: 70
 QUESTION TYPE: Multiple Response
 HAS VARIABLES: False
 DATE CREATED: 2/8/2015 1:03 PM
 DATE MODIFIED: 2/8/2015 1:06 PM

49. Which two filesystems below do not perform journaling?

- a. ext2
- b. VFAT
- c. ext3
- d. REISER

ANSWER: a, b
 POINTS: 1
 REFERENCES: 54
 QUESTION TYPE: Multiple Response
 HAS VARIABLES: False
 DATE CREATED: 2/9/2015 9:46 PM
 DATE MODIFIED: 2/9/2015 9:47 PM

50. In order to switch between terminals in Linux, a user can press what two keys in combination with the F1-F6 keys?

- a. Shift
- b. Ctrl
- c. Alt
- d. Tab

ANSWER: b, c
 POINTS: 1

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<i>REFERENCES:</i>	59
<i>QUESTION TYPE:</i>	Multiple Response
<i>HAS VARIABLES:</i>	False
<i>DATE CREATED:</i>	2/9/2015 9:48 PM
<i>DATE MODIFIED:</i>	2/9/2015 9:52 PM