

## **Mod 01 Introduction to Linux**

### **Multiple Choice**

1. The United States Air Force was able to install Linux on a popular gaming console and then connect over 1,700 of these systems together to work as one big supercomputer. Which of the following types of technologies did they implement?

- a. herding
- b. cloud computing
- c. group computing
- d. clustering

*ANSWER:*

**d**

2. Which of the following terms describes a type of useful and legitimate software that is distributed by a developer at no charge and with no source code?

- a. shareware
- b. freeware
- c. malware
- d. tryware

*ANSWER:*

**b**

3. What term refers to a person that manages the Linux components that allow developers to push new versions of their software to the cloud?

- a. orchestrator
- b. build automator
- c. integration specialist
- d. DevOp

*ANSWER:*

**d**

4. Which of the following types of cloud delivery models would a containerized web app be considered?

- a. SaaS
- b. PaaS
- c. IaaS
- d. MaaS

*ANSWER:*

**b**

5. Which of the following services does an MTA provide?

- a. web
- b. mail
- c. DNS

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- d. certificate

ANSWER:

b

6. What term is used to refer to a specific variety of UNIX?

- a. distribution
- b. version
- c. flavor
- d. platform

ANSWER:

c

7. Which of the following types of servers can be used to cache requested Internet resources so that they can be more quickly delivered to users requesting the same resource while at the same time reducing the burden on the external network connection to the Internet for an organization?

- a. file server
- b. DNS server
- c. proxy server
- d. DHCP server

ANSWER:

c

8. Which of the following types of encryption uses a pair of keys known as public and private?

- a. symmetric
- b. asymmetric
- c. SHA1 hashing
- d. message digest

ANSWER:

b

9. When viewing the version number for a modern Linux kernel, what number indicates that it is a development kernel?

- a. major number
- b. revision number
- c. minor number
- d. release candidate number

ANSWER:

d

10. Which of the following is the greatest expense for companies using Linux?

- a. additional software
- b. operating system cost
- c. hiring people to maintain the Linux system

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- d. software upgrades

ANSWER:

c

11. In Linux, the core component of the GUI is known as:

- a. GNOME
- b. KDE
- c. X Windows
- d. Red Hat

ANSWER:

c

12. An archive of files that usually contains source code or scripts that can be used to install software is referred to as a:

- a. router
- b. package manager
- c. DBMS
- d. tarball

ANSWER:

d

13. From what common Linux distribution is the Fedora Linux distribution derived?

- a. Mandrake
- b. SuSE
- c. Debian
- d. Red Hat

ANSWER:

d

14. What service provides a method for the efficient transfer of files over the Internet?

- a. FTP
- b. HTML
- c. SMTP
- d. Telnet

ANSWER:

a

15. The iptables and nftables software on Linux is an example of what kind of software?

- a. routing
- b. anti-virus
- c. firewall
- d. proxy

ANSWER:

c

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16. What piece of software tells the operating system how to use a specific hardware device?

- a. graphical user interface
- b. system service
- c. device driver
- d. user interface

ANSWER:

c

17. What type of software license does Linux adhere to?

- a. permissive
- b. freeware
- c. closed source
- d. copyleft

ANSWER:

d

18. What are services running on a Linux server called?

- a. daemons
- b. service apps
- c. containers
- d. threads

ANSWER:

a

19. What Linux distribution is commonly used by cybersecurity professionals because it is packaged with several security-related tools?

- a. Kali
- b. Arch
- c. Ubuntu
- d. Gentoo

ANSWER:

a

20. What culture led to the development of free and open source software, from which Linux is derived?

- a. hacker
- b. UNIX
- c. free software
- d. cracker

ANSWER:

a

21. What common software component do all Linux distributions share at minimum?

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- a. compiler
- b. kernel
- c. package manager
- d. X Windows

ANSWER:

b

22. Amir is unfamiliar with Linux and would like to obtain physical help installing Linux on his laptop computer. What resource would best suit Amir's needs?

- a. online forum
- b. LUG
- c. Linux information website
- d. social media website

ANSWER:

b

23. Which of the following job roles are most likely to use Linux on their workstation computer?

- a. software developers
- b. accountants
- c. graphic artists
- d. Windows server administrators

ANSWER:

a

24. Web app developers must regularly push new versions of their containerized web apps to the cloud. What is this process called?

- a. CI
- b. build automation
- c. orchestration
- d. CD

ANSWER:

d

**Multiple Response**

25. Which of the following are features of open source software (OSS)? (Choose all that apply.)

- a. Software is developed through widespread collaboration.
- b. Software bugs are fixed quickly.
- c. Software features evolve based on users' needs.
- d. The cost of the software is based on the number of software packages installed.

ANSWER:

a, b, c

26. Which of the following types of hardware are supported by the Linux operating system? (Choose all that

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apply.)

- a. IoT devices
- b. supercomputers
- c. Internet servers
- d. personal workstations

*ANSWER:*

a, b, c, d

27. What two Linux distributions utilize the Debian package manager by default?

- a. Red Hat
- b. openSUSE
- c. Linux Mint
- d. Ubuntu

*ANSWER:*

c, d

28. Which of the following software terms are equivalent? (Choose all that apply.)

- a. MIT
- b. FOSS
- c. OSS
- d. FLOSS

*ANSWER:*

b, c, d