Exam Code: LFCA

Exam Name: Linux Foundation Certified IT Associate

Exam A

QUESTION 1
Which of the following standard log files would provide the most detailed information on why a recently upgraded custom kernel failed to boot?

A. /var/log/boot.log
B. /var/log/kern.log
C. /var/log/svslog
D. /var/log/auth.log

Correct Answer: B
Section:

QUESTION 2
Which of the following best describes serverless computing?

A. A model of software that packages up code and all its dependencies so the application runs quickly and reliably from one computing environment to another
B. A model where a provider manages the back-end infrastructure management tasks, such as provisioning, scaling, scheduling, and patching
C. An abstraction layer over computer hardware that allows the hardware elements of a single computer-processors, memory, storage, and more-to be divided into multiple segments
D. A solution comprised of sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet

Correct Answer: B
Section:

QUESTION 3
When using vi or vim to edit a file, how do you exit without saving?

A. :q!
B. ZZ
C. :wq!
D. :exit

Correct Answer: A
Section:

QUESTION 4
Which of the following commands can be used to lock a user's account so that they cannot log into a Linux server without removing any files, folders, or data?

A. lock
B. usermod
C. userdel
D. chmod

Correct Answer: B
Section:

QUESTION 5
Which of the following technologies is supported by the majority of cloud providers in order to support the orchestration of containerized applications?

A. Kubernetes

B. Vagrant

C. Ansible

D. Terraform

Correct Answer: A
Section:

QUESTION 6
A server on the network is unreachable. What is the best method to verify connectivity between your computer and the remote server?

A. lookup

B. find

C. ping

D. netstat

Correct Answer: C
Section:

QUESTION 7
A company's IT associate lists the contents of a directory and sees this line:
-rwsr-x--x 2 bob sales 2047 Oct 10 09:44 sales-report
What happens when Alice from the accounting team tries to execute this file?

A. The script executes using Bob's account.

B. The script executes, but Alice cannot see the results.

C. The script executes and Bob is notified.

D. The script fails to execute; Alice is not on the sales team.

Correct Answer: A
Section:

QUESTION 8
A software development team uses a single physical server for testing the latest code in multiple environments: development, pre-production, and production.
What is the recommended approach to maintain the basic security of these environments?

A. Assign different developers on the team to work on test, pre-prod. and prod code.

B. Implement peer review for all the changes deployed into any of the environments

C. Develop and deploy each environment with its own set of software tools.

D. Use different user/group IDs for deploying and running workload in each environment.

Correct Answer: D
Section:

QUESTION 9
Which utility is used to create public and private key pairs for SSH authentication?

A. adduser

B. ssh-keyqen

C. keyqen

D. ssh

Correct Answer: B
Section:

QUESTION 10
What does LVM stand for?

A. Logical Virtualization Manager

B. Linux Volume Manager

C. Logical Volume Manager

D. Linux Virtualization Manager

Correct Answer: C
Section:

QUESTION 11
An IT team is currently implementing a custom software platform to address some key needs of the company. Which of the following is considered a functional requirement?

A. Identifying the purpose of the proposed system

B. Identifying the users of the proposed system

C. Identifying the development methodology

D. Identifying the technology stack of the proposed system

Correct Answer: A
Section:

QUESTION 12
Encryption that uses both a private key and public key is known as what?

A. Key Pair Encryption (symmetric cryptography)

B. HMAC Cryptography (hash based message authentication]

C. Public Key Cryptography (asymmetric cryptography)

D. DPE (dual-phased hybrid encryption]

Correct Answer: C
Section:

QUESTION 13
An IT associate would find the log files for syslog in which of the following directories?

A. /var/log
B. /usr/local/logs
C. /home/logs
D. /etc/logs

Correct Answer: A
Section:

QUESTION 14
Which of the following deployment environments is accessed by customers/end-users in a live or real-time fashion?

A. Production
B. Runtime
C. Staging
D. Website

Correct Answer: A
Section:

QUESTION 15
Which port is normally required to be open for secure remote interactive shell access to Linux systems?

A. 443/tcp
B. 23/tcp
C. 22/tcp
D. 25/tcp

Correct Answer: C
Section:

QUESTION 16
What is the underlying technology that allows containers to be restricted to defined limits for system resource usage such as CPU, memory, and network bandwidth?

A. climits
B. UnionFS
C. Namespaces
D. cqroups

Correct Answer: D

Section:

QUESTION 17
Which of the following is a non-functional requirement?

A. The system must allow the administrator to disable user accounts.

B. The system must provide the user the option to enable multi-factor authentication.

C. The system must allow the user to upload a profile image.

D. The system must adhere to all security requirements and regulations.

Correct Answer: D
Section:

QUESTION 18
Which of the following is considered a best practice for hardening SSHD?

A. Using portknocking to protect ssh access for root

B. Completely disabling ssh access

C. Disabling ssh access for root

D. Renaming root to a random name

Correct Answer: C
Section:

QUESTION 19
A team just developed a new feature on the company's main web application. An IT associate wants to test this new feature by making it available for only 10% of the users. If everything works without any problems for a week, the associate will then make it available for all users. Which release type should be used to achieve this goal?

A. Canary release

B. Experimental release

C. Alpha release

D. Beta release

Correct Answer: A
Section:

QUESTION 20
The Linux kernel uses a:

A. dual architecture B microkernel architecture

B. monolithic architecture

C. hybrid microkernel architecture

Correct Answer: C
Section:

QUESTION 21
Which of the following authentication method types would include using a password in combination with a hardware token?

A. Multi-Factor Authentication
B. Multi-Staged Security
C. Hardware Encryption Authentication
D. Multi-Step Analysis

Correct Answer: A
Section:

QUESTION 22
What is the Linux kernel?

A. It is the core interface between a computer's hardware and its processes.
B. It is another name for the operating system.
C. It contains all the applications and software installed on the computer.
D. It is the firmware for the computer's processor.

Correct Answer: A
Section:

QUESTION 23
A supervisor instructs an IT associate to encrypt all data on a particular partition on a Linux database host. What open source technology would be used to encrypt the data?

A. MD5
B. LUKS
C. BitLocker
D. ext4

Correct Answer: C
Section: