

# Linux-Foundation

## Exam Questions LFCA

Linux Foundation Certified IT Associate



#### NEW QUESTION 1

What command is used to set or change permission attributes of files (such as read, write, execute)?

- A. chacl
- B. chmod
- C. chown
- D. setattr

**Answer: B**

#### NEW QUESTION 2

Which type of cloud computing combines on-premise infrastructure with a public cloud?

- A. Super cloud
- B. Combination cloud
- C. Hybrid cloud
- D. Mixed cloud

**Answer: C**

#### NEW QUESTION 3

When working on a Linux system with firewalld enabled, how can other systems be allowed to access the HTTPS port on the system in the default firewall zone so that the access is granted immediately and persists across reboots?

- A. firewallctl --add-port=https --reload
- B. iptables --add-service=https --permanent
- C. firewalld --add-service=https
- D. firewall-cmd --add-service=https --permanent --reload

**Answer: D**

#### NEW QUESTION 4

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

**Answer: C**

#### NEW QUESTION 5

In which file are system and user account passwords stored?

- A. /etc/passwd
- B. /etc/login.defs
- C. /etc/shadow
- D. /etc/secure

**Answer: C**

#### NEW QUESTION 6

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.

**Answer: D**

#### NEW QUESTION 7

Which measures can be taken to prevent unauthorized access to cloud instances and services?

- A. Use multi-factor authentication, implement firewall rules, and back up data off-site.
- B. Implement block-chain tokens, use encrypted protocols, and encrypt the data on storage systems.
- C. Replicate data to another datacenter, use multi-factor authentication, and encrypt data on storage systems.
- D. Implement firewall rules, authentication, authorization, and encrypted protocols.

**Answer: D**

#### NEW QUESTION 8

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

**Answer: B**

#### **NEW QUESTION 9**

Which of the following would be the most appropriate use-case for a Function as a Service (FaaS) implementation?

- A. An application that requires a local file system
- B. An application that continuously polls for work to process
- C. An event-driven application with dynamic scaling
- D. An application that requires a regionally- or globally-distributed file system

**Answer: C**

#### **NEW QUESTION 10**

What is an appropriate cost consideration when implementing serverless functions in the cloud?

- A. vCPU resources and disk cache
- B. Elapsed time of function execution and memory used
- C. Virtual machine configuration and memory allocation
- D. Runtime environment and container configuration

**Answer: B**

#### **NEW QUESTION 10**

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

- A. adduser
- B. ssh-keygen
- C. keygen
- D. ssh

**Answer: B**

#### **NEW QUESTION 12**

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

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

**Answer: A**

#### **NEW QUESTION 13**

Which of the following best describes the DevOps methodology of Continuous Delivery?

- A. The focus is on coding, building, integrating, and testing software.
- B. The focus is on automating releases of projects as soon as possible.
- C. The focus is on configuration management and continuous monitoring.
- D. The focus is on product releases but also includes coding, building, integrating and testing software

**Answer: B**

#### **NEW QUESTION 16**

A host seems to be running slowly. What command would help diagnose which processes are using system resources?

- A. df
- B. free
- C. uptime
- D. top

**Answer: D**

#### **NEW QUESTION 17**

Which of the following Git commands creates a new, empty Git repository?

- A. git clone
- B. git fork

- C. git pull
- D. git in it

**Answer:** D

**NEW QUESTION 19**

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

**Answer:** B

**NEW QUESTION 20**

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-pro
- B. and prod code.
- C. Implement peer review for all the changes deployed into any of the environments
- D. Develop and deploy each environment with its own set of software tools.
- E. Use different user/group IDs for deploying and running workload in each environment.

**Answer:** D

**NEW QUESTION 25**

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. cgroups

**Answer:** D

**NEW QUESTION 28**

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

**Answer:** A

**NEW QUESTION 31**

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

**Answer:** C

**NEW QUESTION 35**

What technology could be used to address software dependency conflicts between applications on the same host operating system?

- A. Type 1 hypervisors
- B. Type 2 hypervisors
- C. Containers
- D. cgroups

**Answer:** C

**NEW QUESTION 40**

Which of the following commands is used to display SELinux status?

- A. svstemctl
- B. sestatus
- C. firewall-cmd
- D. sudo

**Answer: B**

**NEW QUESTION 41**

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

**Answer: C**

**NEW QUESTION 43**

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