

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

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 3

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 4

What open source tool is used to manage instances in the cloud using infrastructure as code?

- A. SystemsDeployer
- B. Vault
- C. Terraform
- D. Docker

Answer: C

NEW QUESTION 5

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 6

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

Answer: A

NEW QUESTION 7

What command do you use to view the structure of system directory hierarchies?

- A. tree
- B. fee | ls /etc
- C. ls -t
- D. ls tree

Answer: A

NEW QUESTION 8

An IT associate is responsible for protecting and maintaining the integrity of a set of configuration files. What command could be used to prevent users from

modifying these files?

- A. setcap
- B. auditd
- C. chmod
- D. chown

Answer: C

NEW QUESTION 9

An IT associate is working with a video streaming provider. What is a common approach to reduce bandwidth cost while supporting the same or an increasing number of video streams and customers?

- A. Stop serving the video streams when a certain price limit is reached.
- B. Reduce the bitrate to reduce the size of the video streams.
- C. Serve the video streams only to a limited number of users at a time.
- D. Use a content delivery network to distribute the streams.

Answer: D

NEW QUESTION 10

An IT team needs to synchronize large amounts of data between two nodes on the company's local network. This data changes daily and it is not feasible to copy the entire directory tree each time. Which is the best option to securely copy files in the most timely and efficient manner?

- A. rsync
- B. scp
- C. fsync
- D. netcp

Answer: A

NEW QUESTION 10

An IT associate is creating a business case to adopt a DevOps approach in an organization. Which of the following is a benefit of DevOps to include in the business case?

- A. The DevOps tool framework reduces the mean time to recovery and number of outages, which results in increased sales.
- B. Developers take on the work of the operations team.
- C. The operations team, therefore, needs fewer people, reducing the number of people the organization needs to pay.
- D. The frequency and stability of software deployments will be increased, which can lead to faster time to market.
- E. The new DevOps team takes over the work the development team does not have time to complete.
- F. The developers then have time to create new features.

Answer: C

NEW QUESTION 11

Which of the following commands is used to detach a mounted filesystem or storage device?

- A. umount
- B. mount
- C. mkfs
- D. fsck

Answer: A

NEW QUESTION 15

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.

Answer: A

NEW QUESTION 18

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 21

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 22

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

- A. git clone
- B. git fork
- C. git pull
- D. git init

Answer: D

NEW QUESTION 23

What does LVM stand for?

- A. Logical Virtualization Manager
- B. Linux Volume Manager
- C. Logical Volume Manager
- D. Linux Virtualization Manager

Answer: C

NEW QUESTION 26

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/syslog
- D. /var/log/auth.log

Answer: B

NEW QUESTION 28

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 32

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. cgroups
- B. UnionFS
- C. Namespaces
- D. cgroups

Answer: D

NEW QUESTION 37

An IT associate has a web application running on multiple servers, configured to scale based on CPU usage. The current configuration has a minimum size of 1 and a maximum size of 5 servers, designed to launch and spread the instances across 3 Availability Zones (AZ). During a low utilization period, an entire AZ went down, and the application experienced downtime. What can the IT associate do to increase the availability of the application?

- A. Increase the minimum to 2
- B. Change to scale based on number of requests
- C. Decrease the AZs to 2
- D. Increase the maximum to 6

Answer: A

NEW QUESTION 40

Which of the following best describes open source compliance?

- A. A process by which software components are compiled in a development environment, pushed to staging, and then finally moved to production
- B. A process in which various users of open source software observe copyright notices and satisfy license obligations for their open source software components
- C. A process by which users of open source software evaluate each line of their code against an open source dictionary to determine which components have been plagiarized
- D. A process by which open source software is first initiated by a requirements analysis, followed by design and then implementation, with a final testing step

Answer: B

NEW QUESTION 42

What command is used to view new content as it is written to a log file?

- A. cat
- B. grep -f
- C. cut -f1-5
- D. tail -f

Answer: D

NEW QUESTION 47

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.

Answer: A

NEW QUESTION 50

Which of the following is a commonly used open source software used to connect to SSL/TLS VPN services?

- A. OpenVPN
- B. GNUVPN
- C. NordVPN
- D. VPNConnect

Answer: A

NEW QUESTION 54

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

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

Answer: B

NEW QUESTION 58

Which of the following best describes the technical term ??Elasticity???

- A. The degree to which a system can adapt to dynamic computing demands
- B. The degree to which a business accommodates larger loads just by adding resources
- C. The degree to which a system consistently performs according to its specifications
- D. The ability to meet the business's needs through a variety of cloud offerings

Answer: A

NEW QUESTION 60

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