



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 option will cause ls to display hidden files and folders?

- A. ls -v
- B. ls -l
- C. ls -a
- D. ls -t

Answer: C

NEW QUESTION 3

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 4

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 5

A company's IT associate has been asked to switch to single-user mode on a running Linux server in order to perform some troubleshooting. Of the options below, which is the best way of doing this?

- A. su single
- B. init singleuser
- C. lsu 1
- D. linit 1

Answer: D

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

When using rsync to mirror a local directory to a remote server, what is the significance of the --delete option?

- A. Files absent from the remote directory will be restored from the local directory.
- B. Files present in the local directory, but not present in the remote directory, will be deleted.
- C. Files absent from the local directory will be restored from the remote directory.
- D. Files present in the remote directory, but not present in the local directory, will be deleted.

Answer: D

NEW QUESTION 8

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 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

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 12

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 17

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 19

The Linux kernel uses a:

- A. dual architecture
- B. microkernel architecture
- C. monolithic architecture
- D. hybrid microkernel architecture

Answer: C

NEW QUESTION 24

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. lop

Answer: D

NEW QUESTION 28

Which of the following is a solution to providing Internet access to a private network using only a single public IPv4 address?

- A. Routing gateway
- B. NAT gateway
- C. Local area network
- D. Virtual private network

Answer: B

NEW QUESTION 33

What file is created to assemble a Docker image, which contains all the commands a user has to run to make the image from start to finish?

- A. DockerBuild
- B. Dockerfile
- C. BuildFile
- D. ImageFile

Answer: B

NEW QUESTION 34

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 37

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

Answer: A

NEW QUESTION 41

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)

Answer: C

NEW QUESTION 44

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 46

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 48

Which of these providers host repositories of container images?

- A. Docker Hub
- B. GitHub
- C. Container Index
- D. GitLab

Answer: A

NEW QUESTION 51

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 56

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 59

Which is a common best practice to automatically reduce disk usage associated with the storage of log files?

- A. Use the logrotate utility to periodically rotate the log files.
- B. Create a cron job that deletes all log files in the folder every day.
- C. Delete the Vvar/log" directory so the log files are prevented from being created.
- D. Manually empty the log files every day of the week.

Answer: A

NEW QUESTION 64

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

Answer: C

NEW QUESTION 65

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 66

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 69

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