

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

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

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 7

An IT associate is researching technology options to use at a company. The company's application requires a Linux server, features a small memory footprint, and runs mostly web services and a few back-end applications. Which of the following would allow for the most efficient use of system resources and fast startup speeds?

- A. Containers
- B. Hybrid Cloud
- C. Physical hardware
- D. Virtualization

Answer: A

NEW QUESTION 8

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 9

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 10

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 10

After installing the package `postfix`, what command would you run in order to ensure that Postfix is started on reboot?

- A. `/etc/init.d/enable postfix`
- B. `enable postfix on`
- C. `postfix -onboot yes`
- D. `systemctl enable postfix`

Answer: D

NEW QUESTION 12

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 17

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 20

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 23

What does IaaS stand for?

- A. IT as a Service
- B. Integration as a Service
- C. Infrastructure as a Service
- D. Information as a Service

Answer: C

NEW QUESTION 24

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 25

What software application architecture allows teams to iterate quickly and to develop software applications to scale rapidly?

- A. Serverless architecture
- B. Container architecture
- C. SOA architecture
- D. Micro-service architecture

Answer: D

NEW QUESTION 29

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 33

The Linux kernel uses a:

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

Answer: C

NEW QUESTION 34

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 36

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 41

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 43

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 44

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 /var/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 48

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

Answer: A

NEW QUESTION 49

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 54

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