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Question: 1

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

Answer: B

Question: 2

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

Question: 3

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

Question: 4

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

Question: 5

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

Question: 6

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.

Answer: D

Question: 7

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

Question: 8

What does LVM stand for?

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

Answer: C

Question: 9

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

Question: 10

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

Question: 11

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

Question: 12

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

Question: 13

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

Question: 14

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

Question: 15

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

Question: 16

Which of these providers host repositories of container images?

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

Answer: A

Question: 17

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

Question: 18

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

Question: 19

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

Question: 20

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

Question: 21

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

Question: 22

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

Question: 23

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

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. top

Answer: D

Question: 25

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

Question: 26

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. The operations team, therefore, needs fewer people, reducing the number of people the organization needs to pay.
- C. The frequency and stability of software deployments will be increased, which can lead to faster time to market.
- D. The new DevOps team takes over the work the development team does not have time to complete. The developers then have time to create new features.

Answer: C

Question: 27

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

Question: 28

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

Question: 29

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

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

Answer: B

Question: 30

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

Question: 31

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

Question: 32

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

Question: 33

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

Question: 34

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

Question: 35

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

Question: 36

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

Question: 37

By default, the Linux operating system uses what access control to manage files/users?

- A. Discretionary Access Control
- B. Mandatory Access Control
- C. Least Privilege
- D. Full Control

Answer: A

Question: 38

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

Question: 39

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

Question: 40

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

Question: 41

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

Question: 42

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

Question: 43

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

Question: 44

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

Question: 45

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

Question: 46

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

Question: 47

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

Question: 48

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

Question: 49

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

Question: 50

On systemd-based Linux systems, what are runlevels called?

- A. Services
- B. Targets
- C. Units
- D. Modes

Answer: B

Question: 51

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

Question: 52

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

Question: 53

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

Answer: A

Question: 54

The Linux kernel uses a:

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

Answer: C

Question: 55

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

Answer: A

Question: 56

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

Question: 57

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

Question: 58

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

Question: 59

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

Question: 60

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