



Vendor: CompTIA

Exam Code: CV0-003

Exam Name: CompTIA Cloud+ Certification Exam

Version: DEMO

QUESTION 1

Which of the following service models would be used for a database in the cloud?

- A. PaaS
- B. IaaS
- C. CaaS
- D. SaaS

Answer: A

Explanation:

PaaS is the most suitable service model would be used for a database in the cloud.

IaaS is of course can be used to bring up instances and then install database application on top of those instances. However, this approach does not utilize full advantages and benefits of cloud computing. The administrators have to manage and maintain all necessary infrastructure that can be offload by PaaS solution.

Example: Azure SQL Database is a fully managed platform as a service (PaaS) database engine that handles most of the database management functions such as upgrading, patching, backups, and monitoring without user involvement. SQL Server on Azure Virtual Machines (VMs) is an IaaS offer and allows you to run SQL Server inside a virtual machine in the cloud.

QUESTION 2

A cloud administrator is building a new VM for machine-learning training. The developer requesting the VM has stated that the machine will need a full GPU dedicated to it.

Which of the following configuration options would BEST meet this requirement?

- A. Virtual GPU
- B. External GPU
- C. Passthrough GPU
- D. Shared GPU

Answer: C

Explanation:

GPU pass-through is used when one or more GPUs are dedicated to a single VM. Pass-through allows the VM to address the GPU directly without having to go through the hypervisor stack. This significantly improves performance for the application. Pass-through is used for very GPU-intensive workloads such as deep learning, artificial intelligence, and data analytics.

QUESTION 3

In an existing IaaS instance, it is required to deploy a single application that has different versions.

Which of the following should be recommended to meet this requirement?

- A. Deploy using containers
- B. Install a Type 2 hypervisor
- C. Enable SR-IOV on the host
- D. Create snapshots

Answer: A

QUESTION 4

A media company has made the decision to migrate a physical, internal file server to the cloud and use a web-based interface to access and manage the files. The users must be able to use their current corporate logins.

Which of the following is the MOST efficient way to achieve this goal?

- A. Deploy a VM in a cloud, attach storage, and copy the files across
- B. Use a SaaS service with a directory service federation
- C. Deploy a fileshare in a public cloud and copy the files across
- D. Copy the files to the object storage location in a public cloud

Answer: C

QUESTION 5

A systems administrator for an e-commerce company will be migrating the company's main website to a cloud provider. The principal requirement is that the website must be highly available.

Which of the following will BEST address this requirement?

- A. Vertical scaling
- B. A server cluster
- C. Redundant switches
- D. A next-generation firewall

Answer: A

QUESTION 6

An organization is required to set a custom registry key on the guest operating system.

Which of the following should the organization implement to facilitate this requirement?

- A. A configuration management solution
- B. A log and event monitoring solution
- C. A file integrity check solution
- D. An operating system ACL

Answer: A

QUESTION 7

A systems administrator is deploying a GPU-accelerated VDI solution. Upon requests from several users, the administrator installs an older version of the OS on their virtual workstations. The majority of the VMs run the latest LTS version of the OS.

Which of the following types of drivers will MOST likely ensure compatibility with all virtual workstations?

- A. Alternative community drivers

- B. Legacy drivers
- C. The latest drivers from the vendor's website
- D. The drivers from the OS repository

Answer: C

QUESTION 8

A cloud engineer is responsible for managing two cloud environments from different MSPs. The security department would like to inspect all traffic from the two cloud environments.

Which of the following network topology solutions should the cloud engineer implement to reduce long- term maintenance?

- A. Chain
- B. Star
- C. Mesh
- D. Hub and spoke

Answer: D

QUESTION 9

Which of the following is relevant to capacity planning in a SaaS environment?

- A. Licensing
- B. A hypervisor
- C. Clustering
- D. Scalability

Answer: D

QUESTION 10

A cloud administrator is setting up a DR site on a different zone of the same CSP. The application servers are replicated using the VM replication, and the database replication is set up using log shipping. Upon testing the DR site, the application servers are unable to access the database servers. The administrator has verified the systems are running and are accessible from the CSP portal.

Which of the following should the administrator do to fix this issue?

- A. Change the database application IP
- B. Create a database cluster between the primary site and the DR site
- C. Update the connection string
- D. Edit the DNS record at the DR site for the application servers

Answer: C

QUESTION 11

A company has deployed a new cloud solution and is required to meet security compliance.

Which of the following will MOST likely be executed in the cloud solution to meet security requirements?

- A. Performance testing
- B. Regression testing
- C. Vulnerability testing
- D. Usability testing

Answer: C

QUESTION 12

A cloud administrator is switching hosting companies and using the same script that was previously used to deploy VMs in the new cloud. The script is returning errors that the command was not found.

Which of the following is the MOST likely cause of the script failure?

- A. Account mismatches
- B. IP address changes
- C. API version incompatibility
- D. Server name changes

Answer: C

QUESTION 13

A systems administrator needs to configure monitoring for a private cloud environment. The administrator has decided to use SNMP for this task.

Which of the following ports should the administrator open on the monitoring server's firewall?

- A. 53
- B. 123
- C. 139
- D. 161

Answer: D

Explanation:

<https://thwack.solarwinds.com/t5/NPM-Discussions/SNMP-open-ports-on-the-firewall/m-p/168826>

QUESTION 14

A production engineer is configuring a new application, which is running in containers, that requires access to a database. Which of the following methods will allow the application to authenticate to the database in the MOST secure way?

- A. Store the credentials in a variable on every worker node
- B. Store the credentials on a shared volume using whole-disk encryption
- C. Store the credentials in a configuration file using SHA-256 inside the container image
- D. Store the credentials using the orchestrator secret manager

Answer: D

QUESTION 15

An organization has a public-facing API that is hosted on a cloud provider. The API performs slowly at times. Which of the following technologies should the cloud administrator apply to provide speed acceleration and a secure connection?

- A. WAF
- B. EDR
- C. IDS
- D. HIPS
- E. SSL

Answer: E

QUESTION 16

A cloud administrator configured a local cloud-resource pool to offer 64GB of memory, 64 cores, and 640GB of storage. Thirty-two machines with identical resource allocations are started, but one machine is unable to handle requests. Which of the following is the MOST likely cause?

- A. Insufficient guest bandwidth
- B. Overwhelmed vCPU
- C. A storage error on the guest
- D. Incorrect VLAN assignment
- E. Inadequate memory allocation

Answer: D

QUESTION 17

A cloud engineer is performing updates to an application and needs to gracefully stop any new transactions from processing before the updates can be applied. Which of the following steps should the engineer take?

- A. Enable maintenance mode from the application dashboard
- B. Wait until after business hours to conduct the change when the system is not in use
- C. Run a kill command on the system to stop the application services
- D. Use a load balancer to redirect traffic to other systems serving the application

Answer: A

QUESTION 18

A company wants to move to a multicloud environment and utilize the technology that provides the most portability. Which of the following technology solutions would BEST meet the company's needs?

- A. Bootstrap
- B. Virtual machines
- C. Clusters
- D. Containers

Answer: D

QUESTION 19

After initial stress testing showed that a platform performed well with the specification of a single 32 vCPU node, which of the following will provide the desired service with the LOWEST cost and downtime?

- A. One 32 vCPU node with CDN caching
- B. Two 8 vCPU nodes with load balancing
- C. Three to six 8 vCPU nodes autoscaling group
- D. Four 8 vCPU nodes with DNS round robin

Answer: B

QUESTION 20

A systems administrator deployed a new application release to the green stack of a blue-green infrastructure model and made the green stack primary. Immediately afterward, users began reporting application issues. The systems administrator must take action to bring the service online as quickly as possible. Which of the following is the FASTEST way to restore the service?

- A. Reboot all the servers in the green stack
- B. Failback to the blue stack
- C. Restore from backups
- D. Troubleshoot and resolve the application issues

Answer: B

QUESTION 21

A DevOps administrator is building a new application slack in a private cloud. This application will store sensitive information and be accessible from the internet. Which of the following would be MOST useful in maintaining confidentiality?

- A. NAC
- B. IDS
- C. DLP
- D. EDR

Answer: C

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