CompTIA

Exam Questions CV0-003

CompTIA Cloud+ Certification Exam

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NEW QUESTION 1
An organization's web server farm, which is hosted in the cloud with DNS load balancing, is experiencing a spike in network traffic. This has caused an outage of the organization's web server infrastructure.
Which of the following should be implemented to prevent this in the future as a mitigation method?

A. Enable DLP
B. Configure microsegmentation
C. Enable DNSSEC
D. Deploy a vADC appliance

Answer: D

NEW QUESTION 2
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

NEW QUESTION 3
A company recently experienced a power outage that lasted 30 minutes. During this time, a whole rack of servers was inaccessible, even though the servers did not lose power.
Which of the following should be investigated FIRST?

A. Server power
B. Rack power
C. Switch power
D. SAN power

Answer: C

NEW QUESTION 4
Users of an enterprise application, which is configured to use SSO, are experiencing slow connection times. Which of the following should be done to troubleshoot the issue?

A. • Perform a memory dump of the OS.• Analyze the memory dump.• Upgrade the host CPU to a higher clock speed CPU.
B. • Perform a packet capture during authentication.• Validate the load-balancing configuration.• Analyze the network throughput of the load balancer.
C. • Analyze the storage system IOPS.• Increase the storage system capacity.• Replace the storage system disks to SSD.
D. • Evaluate the OS ACLs.• Upgrade the router firmware.• Increase the memory of the router.

Answer: C

NEW QUESTION 5
A cloud administrator has deployed a new VM. The VM cannot access the Internet or the VMs on any other subnet. The administrator runs a network command and sees the following output:

```
IPv4 Address. . . . . . . .  172.16.31.38
Subnet Mask. . . . . . . . . 255.255.255.224
Default Gateway. . . . .    172.16.31.254
```

The new VM can access another VM at 172.16.31.39. The administrator has verified the IP address is correct. Which of the following is the MOST likely cause of the connectivity issue?

A. A missing static route
B. A duplicate IP on the network
C. Firewall issues
D. The wrong gateway

Answer: B

NEW QUESTION 6
A Chief Information Security Officer (CISO) is evaluating the company's security management program. The CISO needs to locate all the assets with identified deviations and mitigation measures. Which of the following would help the CISO with these requirements?

A. An SLA document
B. ADR plan
C. SOC procedures
D. A risk register

Answer: C

NEW QUESTION 7
An organization is developing a new solution for hosting an external website. The systems administrator needs the ability to manage the OS. Which of the following methods would be MOST suitable to achieve this objective?

A. Deploy web servers into an IaaS provider.
B. Implement a cloud-based VDI solution.
C. Provision web servers in a container environment.
D. Use PaaS components in the cloud to implement the product.

Answer: C

NEW QUESTION 8
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: D

NEW QUESTION 9
A systems administrator would like to reduce the network delay between two servers.
Which of the following will reduce the network delay without taxing other system resources?

A. Decrease the MTU size on both servers
B. Adjust the CPU resources on both servers
C. Enable compression between the servers
D. Configure a VPN tunnel between the servers

Answer: A

NEW QUESTION 10
Lateral-moving malware has infected the server infrastructure.
Which of the following network changes would MOST effectively prevent lateral movement in the future?

A. Implement DNSSEC in all DNS servers
B. Segment the physical network using a VLAN
C. Implement microsegmentation on the network
D. Implement 802.1X in the network infrastructure

Answer: B

NEW QUESTION 10
A database analyst reports it takes two hours to perform a scheduled job after onboarding 10,000 new users to the system. The analyst made no changes to the scheduled job before or after onboarding the users. The database is hosted in an IaaS instance on a cloud provider. Which of the following should the cloud administrator evaluate to troubleshoot the performance of the job?

A. The IaaS compute configurations, the capacity trend analysis reports, and the storage IOPS
B. The hypervisor logs, the memory utilization of the hypervisor host, and the network throughput of the hypervisor
C. The scheduled job logs for successes and failures, the time taken to execute the job, and the job schedule
D. Migrating from IaaS to on premises, the network traffic between on-premises users and the IaaS instance, and the CPU utilization of the hypervisor host

Answer: C

NEW QUESTION 15
A technician just received the lessons learned from some recent data that was lost due to an on-premises file-server crash. The action point is to change the backup strategy to minimize manual intervention. Which of the following is the BEST approach for the technician to implement?

A. Backup as a service
B. RAID 1
C. Long-term storage
D. New backup devices

Answer: C

NEW QUESTION 18
A vendor is installing a new retail store management application for a customer. The application license ensures software costs are low when the application is not being used, but costs go up when use is higher.
Which of the following licensing models is MOST likely being used?

A. Socket-based
B. Core-based
C. Subscription
D. Volume-based

Answer: D

NEW QUESTION 19
An engineer is responsible for configuring a new firewall solution that will be deployed in a new public cloud environment. All traffic must pass through the firewall. The SLA for the firewall is 99.999%. Which of the following should be deployed?

A. Two load balancers behind a single firewall
B. Firewalls in a blue-green configuration
C. Two firewalls in a HA configuration
D. A web application firewall

Answer: C

NEW QUESTION 21
A systems administrator has finished installing monthly updates to servers in a cloud environment. The administrator notices certain portions of the playbooks are no longer functioning. Executing the playbook commands manually on a server does not work as well. There are no other reports of issues.
Which of the following is the MOST likely cause of this issue?

A. Change management failure
B. Service overload
C. Patching failure
D. Job validation issues
E. Deprecated features

Answer: D

NEW QUESTION 23
Which of the following will mitigate the risk of users who have access to an instance modifying the system configurations?

A. Implement whole-disk encryption
B. Deploy the latest OS patches
C. Deploy an anti-malware solution
D. Implement mandatory access control

Answer: D

NEW QUESTION 24
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

NEW QUESTION 26
An update is being deployed to a web application, and a systems administrator notices the cloud SQL database has stopped running. The VM is responding to pings, and there were not any configuration changes scheduled for the VM. Which of the following should the administrator check NEXT?

A. Logs on the VM
B. Firewall on the VM
C. Memory on the VM
D. vGPU performance on the VM

Answer: A

NEW QUESTION 28
A technician is working with an American company that is using cloud services to provide video-based training for its customers. Recently, due to a surge in demand, customers in Europe are experiencing latency.
Which of the following services should the technician deploy to eliminate the latency issue?

A. Auto-scaling
B. Cloud bursting
C. A content delivery network
D. A new cloud provider

Answer: A

NEW QUESTION 32
An organization has multiple VLANs configured to segregate the network traffic. Following is the breakdown of the network segmentation:

> Production traffic (10.10.0.0/24)

> Network backup (10.20.0.0/25)

> Virtual IP network (10.20.0.128/25)

The following configuration exists on the server:

Server name	Interface	IP address	Gateway
COMPSRV01	Production	10.10.0.12/24	10.10.0.1
COMPSRV01	Network backup	10.20.0.12/25	10.10.0.1

The backup administrator observes that the weekly backup is failing for this server. Which of the following commands should the administrator run to identify the issue?

A. ROUTE PRINT
B. NETSTAT -A
C. IPCONFIG /ALL
D. NET SM

Answer: A

NEW QUESTION 37
A systems administrator is creating a VM and wants to ensure disk space is not allocated to the VM until it is needed. Which of the following techniques should the administrator use to ensure?

A. Deduplication
B. Thin provisioning
C. Software-defined storage
D. iSCSI storage

Answer: B

NEW QUESTION 41
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

NEW QUESTION 45
Which of the following will provide a systems administrator with the MOST information about potential attacks on a cloud IaaS instance?

A. Network flows
B. FIM
C. Software firewall
D. HIDS

Answer: A

NEW QUESTION 46
A private IaaS administrator is receiving reports that all newly provisioned Linux VMs are running an earlier version of the OS than they should be. The administrator reviews the automation scripts to troubleshoot the issue and determines the scripts ran successfully. Which of the following is the MOST likely cause of the issue?

A. API version incompatibility
B. Misconfigured script account
C. Wrong template selection
D. Incorrect provisioning script indentation

Answer: C

NEW QUESTION 51
A cloud administrator would like to deploy a cloud solution to its provider using automation techniques. Which of the following must be used? (Choose two.)

A. Auto-scaling
B. Tagging
C. Playbook
D. Templates
E. Containers
F. Serverless

Answer: BD

NEW QUESTION 52
An IaaS application has a two-hour RTO and a four-hour RPO. The application takes one hour to back up its data or restore from a local backup file. A systems

administrator is tasked with configuring the backup policy.
Which of the following should the administrator configure to achieve the application requirements with the LEAST cost?

A. Back up to long-term storage every night
B. Back up to object storage every three hours
C. Back up to long-term storage every four hours
D. Back up to object storage every hour

Answer: D

NEW QUESTION 56
A resource pool in a cloud tenant has 90 GB of memory and 120 cores. The cloud administrator needs to maintain a 30% buffer for resources for optimal performance of the hypervisor. Which of the following would allow for the maximum number of two-core machines with equal memory?

A. 30 VMs, 3GB of memory
B. 40 VMs, 1,5GB of memory
C. 45 VMs, 2 GB of memory
D. 60 VMs, 1 GB of memory

Answer: D

NEW QUESTION 60
An IaaS provider has numerous devices and services that are commissioned and decommissioned automatically on an ongoing basis. The cloud administrator needs to implement a solution that will help reduce administrative overhead.
Which of the following will accomplish this task?

A. IPAM
B. NAC
C. NTP
D. DNS

Answer: A

NEW QUESTION 63
A company has developed a cloud-ready application. Before deployment, an administrator needs to select a deployment technology that provides a high level of portability and is lightweight in terms of footprint and resource requirements.
Which of the following solutions will be BEST to help the administrator achieve the requirements?

A. Containers
B. Infrastructure as code
C. Desktop virtualization
D. Virtual machines

Answer: A

NEW QUESTION 68
The security team for a large corporation is investigating a data breach. The team members are all trying to do the same tasks but are interfering with each other's work.
Which of the following did the team MOST likely forget to implement?

A. Incident type categories
B. A calling tree
C. Change management
D. Roles and responsibilities

Answer: D

NEW QUESTION 70
A systems administrator needs to configure a set of policies to protect the data to comply with mandatory regulations.
Which of the following should the administrator implement to ensure DLP efficiently prevents the exposure of sensitive data in a cloud environment?

A. Integrity
B. Versioning
C. Classification
D. Segmentation

Answer: A

NEW QUESTION 73
The human resources department was charged for a cloud service that belongs to another department. All other cloud costs seem to be correct.
Which of the following is the MOST likely cause for this error?

A. Misconfigured templates
B. Misconfigured chargeback
C. Incorrect security groups
D. Misconfigured tags

Answer: A

NEW QUESTION 76
A global web-hosting company is concerned about the availability of its platform during an upcoming event. Web traffic is forecasted to increase substantially during the next week. The site contains mainly static content.
Which of the following solutions will assist with the increased workload?

A. DoH
B. WAF
C. IPS
D. CDN

Answer: D

NEW QUESTION 79
An organization is running a database application on a SATA disk, and a customer is experiencing slow performance most of the time.
Which of the following should be implemented to improve application performance?

A. Increase disk capacity
B. Increase the memory and network bandwidth
C. Upgrade the application
D. Upgrade the environment and use SSD drives

Answer: D

NEW QUESTION 84
A cloud administrator is reviewing a new application implementation document. The administrator needs to make sure all the known bugs and fixes are applied, and unwanted ports and services are disabled.
Which of the following techniques would BEST help the administrator assess these business requirements?

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

Answer: C

NEW QUESTION 85
Which of the following service models would be used for a database in the cloud?

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

Answer: D

NEW QUESTION 88
Which of the following strategies will mitigate the risk of a zero-day vulnerability MOST efficiently?

A. Using only open-source technologies
B. Keeping all resources up to date
C. Creating a standby environment with a different cloud provider
D. Having a detailed incident response plan

Answer: D

NEW QUESTION 91
An organization suffered a critical failure of its primary datacenter and made the decision to switch to the DR site. After one week of using the DR site, the primary datacenter is now ready to resume operations.
Which of the following is the MOST efficient way to bring the block storage in the primary datacenter up to date with the DR site?

A. Set up replication.
B. Copy the data across both sites.
C. Restore incremental backups.
D. Restore full backups.

Answer: A

NEW QUESTION 93
After a hardware upgrade on a private cloud system, the systems administrator notices a considerable drop in network performance. Which of the following is MOST likely the cause?

A. The driver
B. The memory

C. The cluster placement
D. The CPU

Answer: C

NEW QUESTION 97
A systems administrator is configuring RAID for a new server. This server will host files for users and replicate to an identical server. While redundancy is necessary, the most important need is to maximize storage.
Which of the following RAID types should the administrator choose?

A. 5
B. 6
C. 10
D. 50

Answer: C

NEW QUESTION 99
A SAN that holds VM files is running out of storage space.
Which of the following will BEST increase the amount of effective storage on the SAN?

A. Enable encryption
B. Increase IOPS
C. Convert the SAN from RAID 50 to RAID 60
D. Configure deduplication

Answer: D

NEW QUESTION 103
An organization is hosting a cloud-based web server infrastructure that provides web-hosting solutions. Sudden continuous bursts of traffic have caused the web servers to saturate CPU and network utilizations.
Which of the following should be implemented to prevent such disruptive traffic from reaching the web servers?

A. Solutions to perform NAC and DLP
B. DDoS protection
C. QoS on the network
D. A solution to achieve microsegmentation

Answer: B

NEW QUESTION 104
A cloud administrator is planning to migrate a globally accessed application to the cloud.
Which of the following should the cloud administrator implement to BEST reduce latency for all users?

A. Regions
B. Auto-scaling
C. Clustering
D. Cloud bursting

Answer: A

NEW QUESTION 109
A systems administrator has migrated an internal application to a public cloud. The new web server is running under a TLS connection and has the same TLS certificate as the internal application that is deployed. However, the IT department reports that only internal users who are using new versions of the OSs are able to load the application home page.
Which of the following is the MOST likely cause of the issue?

A. The local firewall from older OSs is not allowing outbound connections
B. The local firewall from older OSs is not allowing inbound connections
C. The cloud web server is using a self-signed certificate that is not supported by older browsers
D. The cloud web server is using strong ciphers that are not supported by older browsers

Answer: C

NEW QUESTION 113
A cloud administrator is designing a multiregion network within an IaaS provider. The business requirements for configuring the network are as follows:
➤ Use private networking in and between the multisites for data replication.
➤ Use low latency to avoid performance issues.
Which of the following solutions should the network administrator use within the IaaS provider to connect multiregions?

A. Peering
B. Gateways
C. VPN
D. Hub and spoke

Answer: C

NEW QUESTION 114

An organization has two businesses that are developing different software products. They are using a single cloud provider with multiple IaaS instances. The organization identifies that the tracking of costs for each business are inaccurate.
Which of the following is the BEST method for resolving this issue?

A. Perform segregation of the VLAN and capture egress and ingress values of each network interface
B. Tag each server with a dedicated cost and sum them based on the businesses
C. Split the total monthly invoice equally between the businesses
D. Create a dedicated subscription for the businesses to manage the costs

Answer: B

NEW QUESTION 116

A systems administrator wants the VMs on the hypervisor to share CPU resources on the same core when feasible.
Which of the following will BEST achieve this goal?

A. Configure CPU passthrough
B. Oversubscribe CPU resources
C. Switch from a Type 1 to a Type 2 hypervisor
D. Increase instructions per cycle
E. Enable simultaneous multithreading

Answer: B

NEW QUESTION 119

A systems administrator swapped a failed hard drive on a server with a RAID 5 array. During the RAID resynchronization, a second hard drive failed.
Which of the following actions will make the server fully operational?

A. Restart the RAID resynchronization process
B. Perform a P2V migration of the server
C. Swap the failed hard drive with a fresh one
D. Restore the server from backup

Answer: A

NEW QUESTION 123

A systems administrator is informed that a database server containing PHI and PII is unencrypted. The environment does not support VM encryption, nor does it have a key management system. The server needs to be able to be rebooted for patching without manual intervention.
Which of the following will BEST resolve this issue?

A. Ensure all database queries are encrypted
B. Create an IPSec tunnel between the database server and its clients
C. Enable protocol encryption between the storage and the hypervisor
D. Enable volume encryption on the storage
E. Enable OS encryption

Answer: C

NEW QUESTION 128

An administrator is performing an in-place upgrade on a quest VM operating system.
Which of the following can be performed as a quick method to roll back to an earlier state, if necessary?

A. A configuration file backup
B. A full backup of the database
C. A differential backup
D. A VM-level snapshot

Answer: D

NEW QUESTION 133

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 will 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

NEW QUESTION 134

After analyzing a web server's logs, a systems administrator sees that users are connecting to the company's application through HTTP instead of HTTPS. The administrator then configures a redirect from HTTP to HTTPS on the web server, and the application responds with a connection time-out message.
Which of the following should the administrator verify NEXT?

A. The TLS certificate
B. The firewall rules
C. The concurrent connection limit
D. The folder permissions

Answer: A

NEW QUESTION 136
A systems administrator is configuring a storage array.
Which of the following should the administrator configure to set up mirroring on this array?

A. RAID 0
B. RAID 1
C. RAID 5
D. RAID 6

Answer: B

NEW QUESTION 139
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