

Latest [Apr 30, 2024 CompTIA CV0-003 Exam Practice Test To Gain Brilliante Result [Q119-Q143]



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Q119. A company has purchased two new servers to host several virtualized database servers. Each server has two 3GHz quad-core processors each, 64GB RAM each, 200GB DAS, and two

10GbE NICs each. Which of the following is the MOST likely bottleneck for these systems?

- * Processors
- * SAN
- * RAM
- * NIC

Q120. A company has a cloud infrastructure service, and the cloud architect needs to set up a DR site.

Which of the following should be configured in between the cloud environment and the DR site?

- * Failback
- * Playbook

- * Zoning
- * Replication

Explanation

Replication is a process of copying or synchronizing data from one location to another to ensure consistency and availability. Replication can help set up a disaster recovery (DR) site for a cloud environment, as it can enable data backup and recovery in case of a failure or outage in the primary site. Replication can also improve performance and reliability, as it can reduce latency and load by distributing data across multiple sites. Replication should be configured between the cloud environment and the DR site to ensure data protection and continuity. References: CompTIA Cloud+ Certification Exam Objectives, page 10, section 1.5

Q121. 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?

- * Increase disk capacity
- * Increase the memory and network bandwidth
- * Upgrade the application
- * Upgrade the environment and use SSD drives

Explanation

Upgrading the environment and using solid state drives (SSDs) can improve application performance for a database application that is running on a serial advanced technology attachment (SATA) disk and experiencing slow performance most of the time. Upgrading the environment can involve updating or replacing the hardware, software, or network components that support the application to enhance their functionality, capacity, or compatibility. Using SSDs can provide faster and more reliable data access and storage than SATA disks, as they use flash memory instead of spinning disks to store data. SSDs can also reduce latency, power consumption, and heat generation. References: CompTIA Cloud+ Certification Exam Objectives, page

9, section 1.4

Q122. A cloud security analyst needs to ensure the web servers in the public subnet allow only secure communications and must remediate any possible issue. The stateful configuration for the public web servers is as follows:

ID	Direction	Protocol	Port	Source	Action
1	inbound	TCP	80	any	allow
2	inbound	TCP	443	any	allow
3	inbound	TCP	3306	any	allow
4	inbound	TCP	3389	any	allow
5	outbound	UDP	53	any	allow
*	both	any	any	any	deny

Which of the following actions should the analyst take to accomplish the objective?

- * Remove rules 1, 2, and 5.
- * Remove rules 1, 3, and 4.
- * Remove rules 2, 3, and 4.
- * Remove rules 3, 4, and 5.

Explanation

To ensure the web servers in the public subnet allow only secure communications and remediate any possible issue, the analyst should remove rules 1, 2, and 5 from the stateful configuration. These rules are allowing insecure or unnecessary traffic to or from the web servers, which may pose security risks or performance issues. The rules are:

Rule 1: This rule allows inbound traffic on port 80 (HTTP) from any source to any destination. HTTP is an unencrypted and insecure protocol that can expose web traffic to interception, modification, or spoofing. The analyst should remove this rule and use HTTPS (port 443) instead, which encrypts and secures web traffic.

Rule 2: This rule allows outbound traffic on port 25 (SMTP) from any source to any destination. SMTP is a protocol that is used to send email messages. The web servers in the public subnet do not need to send email messages, as this is not their function. The analyst should remove this rule and block outbound SMTP traffic, which may prevent spamming or phishing attacks from compromised web servers.

Rule 5: This rule allows inbound traffic on port 22 (SSH) from any source to any destination. SSH is a protocol that allows remote access and management of systems or devices using a command-line interface. The web servers in the public subnet do not need to allow SSH access from any source, as this may expose them to unauthorized or malicious access. The analyst should remove this rule and restrict SSH access to specific sources, such as the administrator's workstation or a bastion host.

Q123. A systems administrator is trying to connect to a remote KVM host. The command line appears as follows:

```
serveradmin@localhost:~$ virsh remotehost
Error: daemon not running on remote host.
```

After logging in to the remote server, the administrator verifies the daemon is running. Which of the following should the administrator try NEXT?

- * Opening port 22 on the firewall
- * Running the command with elevated privileges
- * Checking if the SSH password is correct
- * Ensuring the private key was properly imported

Explanation

The answer is B. Running the command with elevated privileges. According to the web search results, the error message `“End of file while reading data: sh: 1: nc: not found: Input/output error”` indicates that the remote host does not have the nc (netcat) command installed or available in the PATH. The nc command is used by libvirt to establish a connection between the client and the server. To fix this error, the administrator should install nc on the remote host or ensure that it is in the PATH. However, to do this, the administrator needs to have elevated privileges, such as sudo or root, on the remote host. Therefore, the administrator should try running the command with elevated privileges, such as `sudo virsh remotehost` or `su -c ‘virsh remotehost’`.

This will allow the administrator to install nc or modify the PATH on the remote host and then connect to it using libvirt.

Q124. A marketing team is using a SaaS-based service to send emails to large groups of potential customers. The internally managed CRM system is configured to generate a list of target customers automatically on a weekly basis, and then use that list to send emails to each customer as part of a marketing campaign. Last week, the first email campaign sent emails successfully to 3,000 potential customers. This week, the email campaign attempted to send out 50,000 emails, but only 10,000 were sent.

Which of the following is the MOST likely reason for not sending all the emails?

- * API request limit
- * Incorrect billing account
- * Misconfigured auto-scaling
- * Bandwidth limitation

An API request limit is a restriction on the number of requests that can be made to a web service or application programming interface (API) within a certain time period. API request limits are often used by SaaS-based services to control the usage and traffic of their customers and prevent overloading or abuse of their resources. An API request limit can cause a failure to send all the emails if the marketing team exceeds the number of requests allowed by the SaaS-based service in a week. The service may reject or block any requests that go beyond the limit, resulting in fewer emails being sent than expected. Reference: CompTIA Cloud+ Certification Exam Objectives, page 13, section 2.5

Q125. An administrator has been informed that some requests are taking a longer time to respond than other requests of the same type. The cloud consumer is using multiple network service providers and is performing link load balancing for bandwidth aggregation. Which of the following commands will help the administrator understand the possible latency issues?

- * ping
- * ipconfig
- * traceroute
- * netstat

Q126. 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?

- * Auto-scaling
- * Cloud bursting
- * A content delivery network
- * A new cloud provider

Explanation

<https://www.cloudflare.com/learning/cdn/what-is-a-cdn/>

“A content delivery network (CDN) refers to a geographically distributed group of servers which work together to provide fast delivery of Internet content.”

Q127. In an IaaS platform, which of the following actions would a systems administrator take FIRST to identify the scope of an incident?

- * Conduct a memory acquisition.
- * Snapshot all volumes attached to an instance.
- * Retrieve data from a backup.
- * Perform a traffic capture.

The first step to identify the scope of an incident in an IaaS platform is to perform a traffic capture on the affected instances or network interfaces. This will help to determine the source, destination, and nature of the malicious or anomalous traffic, as well as the impact on the network performance and availability. A traffic capture can also provide evidence for further analysis and

remediation. Reference: CompTIA Cloud+ Certification Exam Objectives, Domain 4.0 Troubleshooting, Objective 4.2 Given a scenario, troubleshoot security issues related to cloud implementations.

Q128. A systems administrator is creating a playbook to run tasks against a server on a set schedule.

Which of the following authentication techniques should the systems administrator use within the playbook?

- * Use the server's root credentials.
- * Hard-code the password within the playbook.
- * Create a service account on the server.
- * Use the administrator's SSO credentials.

Q129. A software solution must be deployed based on the most granular access level. Which of the following methods should be used to meet the requirements?

- * Group
- * RBAC
- * File-based
- * LDAP

Q130. After announcing a big sales promotion, an e-commerce company starts to experience a slow response on its platform that is hosted in a public cloud. When checking the resources involved, the systems administrator sees the following consumption:

VM	Memory used	CPU used	Network used
webserver01	89%	98%	12%
appserver01	45%	43%	13%
appserver02	43%	44%	15%
database01	55%	50%	60%

Considering all VMs were built from the same templates, which of the following actions should the administrator perform FIRST to speed up the response of the e-commerce platform?

- * Spin up a new web server
- * Spin up a new application server
- * Add more memory to the web server
- * Spin up a new database server

Q131. A company is performing a DR drill and is looking to validate its documentation. Which of the following metrics will determine the service recovery duration?

- * MTTF
- * SLA
- * RTO
- * RPO

Explanation

RTO (Recovery Time Objective) is a metric that determines the maximum amount of time that a service can be unavailable or disrupted before it causes unacceptable consequences for the business. RTO is normally measured in minutes, hours, or days, and it is based on the criticality and priority of the service. RTO is one of the key metrics that can determine the service recovery duration, as it defines the target time frame for restoring the service to normal operations after a disaster. For example, if a company has an RTO of four hours for its email service, it means that it aims to recover the email service within four hours after a disaster, such as a

server failure or a network outage.

Q132. 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?

- * Vertical scaling
- * A server cluster
- * Redundant switches
- * A next-generation firewall

Q133. A company is deploying a new instant messaging app to allow for communications with external vendors. Each entity will host its own version of the application, but users must be able to talk between the companies. Which of the following security techniques would MOST likely be used to allow this to happen?

- * User synchronization
- * Password synchronization
- * Public federation
- * Multifactor authentication

Q134. In an IaaS platform, which of the following actions would a systems administrator take FIRST to identify the scope of an incident?

- * Conduct a memory acquisition.
- * Snapshot all volumes attached to an instance.
- * Retrieve data from a backup.
- * Perform a traffic capture.

Q135. Which of the following access control types would give a system administrator the ability to assign access according to least privilege?

- * Role based
- * Rule based
- * Discretionary
- * Mandatory

Q136. A systems administrator is performing an OS upgrade on a production VM. Which of the following actions should the administrator take before the upgrade to ensure the FASTEST recovery of the system in case the upgrade fails in an unrecoverable way?

- * Submit the upgrade to the CAB.
- * Perform a full backup.
- * Take a snapshot of the system.
- * Test the upgrade in a preproduction environment.

A snapshot is an image of your system/volume at a specific point in time. It captures the entire file system as it was when the snapshot was taken. When a snapshot is used to restore the system, the system will revert to exactly how it was at the time of the snapshot. Snapshots are designed for short-term storage and fast recovery. They do not need a lot of storage space or time to create copies.

Taking a snapshot of the system before the OS upgrade would ensure the fastest recovery of the system in case the upgrade fails in an unrecoverable way. The administrator could simply restore the system from the snapshot and avoid any data loss or corruption. This would be much faster and easier than performing a full backup or testing the upgrade in a preproduction environment.

Q137. A cloud security analyst is implementing a vulnerability scan of the web server in the DMZ, which is running in an IaaS compute instance. The default inbound firewall settings are as follows:

Protocol	Port	Source	Action
TCP	80	any	allow
TCP	443	any	allow
ICMP	echo request	any	allow
any	any	any	deny

Which of the following will provide the analyst with the MOST accurate report?

- * An agent-based scan
- * A network vulnerability scan
- * A default and common credentialed scan
- * A network credentialed vulnerability scan

Q138. 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?

- * DoH
- * WAF
- * IPS
- * CDN

Q139. A company recently subscribed to a SaaS collaboration service for its business users. The company also has an on-premises collaboration solution and would like users to have a seamless experience regardless of the collaboration solution being used. Which of the following should the administrator implement?

- * LDAP
- * WAF
- * VDI
- * SSO

Q140. A systems administrator notices several VMS are constantly ballooning, while the memory usage of several other VMS is significantly lower than their resource allocation. Which of the following will MOST likely solve the issue?

- * Rightsizing
- * Bandwidth increase
- * Cluster placement
- * Storage tiers

Explanation

The best answer is A. Rightsizing.

Rightsizing is the process of restructuring a company so it can make a profit more efficiently and meet updated business objectives¹. Organizations will usually rightsize their business by reducing their workforce, reorganizing upper management, cutting costs, and changing job roles².

Rightsizing can help solve the issue of VMs constantly ballooning, while the memory usage of several other VMs is significantly

lower than their resource allocation. Ballooning is a memory reclamation technique used when ESXi host runs out of memory. It involves a balloon driver that consumes unused memory within the VM's address space and makes it available for other uses by the host machine³. However, ballooning can also degrade the performance of the VMs and cause swapping or paging⁴.

By rightsizing the VMs, the systems administrator can adjust the memory allocation according to the actual demand and usage of each VM. This can prevent overprovisioning or underprovisioning of memory resources and improve the efficiency and profitability of the company. Rightsizing can also help avoid redundancies, streamline workflows, and make better hiring decisions¹.

Q141. A cloud provider wants to make sure consumers are utilizing its IaaS platform but prevent them from installing a hypervisor on the server. Which of the following will help the cloud provider secure the environment and limit consumers' activity?

- * Patch management
- * Hardening
- * Scaling
- * Log and event monitoring

Q142. A systems administrator is planning to migrate to a cloud solution with volume-based licensing. Which of the following is most important when considering licensing costs?

- * The number of cores
- * The number of threads
- * The number of machines
- * The number of sockets

Explanation

Volume-based licensing is a model where the cost of the software is based on the number of licenses purchased¹. This model is commonly used for software that is installed on a specific number of devices, such as antivirus software or office productivity suites¹. Therefore, the number of machines is the most important factor when considering licensing costs in this model.

References: CompTIA Cloud+ CV0-003 Exam Objectives, Objective 1.2: Given a scenario, compare and contrast various cloud service models ; Cloud+ Exam CV0-003: CompTIA Cloud+ Licensing Models¹

Q143. A company has entered into a business relationship with another organization and needs to provide access to internal resources through directory services. Which of the following should a systems administrator implement?

- * SSO
- * VPN
- * SSH
- * SAML

Explanation

The answer is B. A VPN tunnel. A VPN tunnel is a secure and encrypted connection between two networks over a public network, such as the Internet. A VPN tunnel can help protect data in transit by encrypting it before it leaves the company's network and decrypting it when it reaches the public cloud service provider. A VPN tunnel can also authenticate the endpoints and verify the integrity of the data.

Some possible sources of information about VPN tunnels are:

What is a VPN Tunnel? | Fortinet: This page explains what a VPN tunnel is, how it works, and what benefits it provides.

VPN Gateway: Create a Site-to-Site connection using a VPN gateway | Microsoft Docs: This page shows how to create a site-to-site connection using a VPN gateway in Azure.

[Cloud VPN overview | Google Cloud]: This page provides an overview of Cloud VPN, a service that creates secure and reliable VPN tunnels to Google Cloud.

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