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QUESTION 1

Following the deployment of a new VM, a cloud engineer notices the backup platform has not added the machine to the appropriate job. The backup platform uses a text-based variable for job configuration. This variable is based on the RPO requirements for the workload.

Which of the following did the cloud engineer forget to configure when deploying the virtual machine?

A. Tags

B. RPO

C. RTO

D. Server name

E. Template

Correct Answer: A

Tags are key-value pairs that can be applied to cloud resources to organize, categorize, and filter them. Tags can also be used to assign resources to backup jobs based on their RPO requirements. The cloud engineer forgot to configure the

appropriate tag for the new VM that matches the text-based variable of the backup platform. Therefore, the backup platform did not add the VM to the correct job.

References: Tags and labels | Cloud Storage | Google Cloud, CompTIA Cloud+ Certification Exam Objectives, Domain 4.0: Operations and Support, Objective 4.3: Given a scenario, apply the appropriate methods for cost control in a cloud

environment.

QUESTION 2

A DevOps engineer is integrating multiple systems. Each system has its own API that exchanges data based on different application-level transactions. Which of the following delivery mechanisms would best support this integration?

A. Enterprise service bus

B. Socket

C. RPC

D. Queue

Correct Answer: A

An Enterprise Service Bus (ESB) is designed to facilitate application integration by providing a centralized architecture for high-level, message-based, and event-driven communication between different systems. It is particularly well-suited for integrating multiple systems with their own APIs because it can handle various data formats and protocols, enabling different applications to communicate with each other seamlessly. References: CompTIA Cloud+ Certification Study Guide (V0-004) by Scott Wilson and Eric Vanderburg

QUESTION 3

A cloud engineer has provisioned a VM for a high-frequency trading application. After the VM is put into production, users report high latency in trades. The engineer checks the last six hours of VM metrics and sees the following:

1.

 CPU utilization is between 30% to 60%.

2.

 NetworkIn is between 50Kbps and 70Kbps.

3.

 NetworkOut is between 3.000Kpbs and 5.000Kbps.

4.

 DiskReadOps is at 30.

5.

 DiskWriteOps is at 70

6.

 Memory utilization is between 50% and 70%.

Which of the following steps should the engineer take next to solve the latency issue?

A. Move to a network-optimized instance type as the network throughput is not enough.

B. Modify the disk IOPS to a higher value as the disk IO is being bottlenecked at 100 IOPS.

C. Increase the memory of the instance as the high-frequency trading application requires more RAM.

D. Increase the instance size to allocate more vCPUs as the CPU utilization is very high.

Correct Answer: A

Since the NetworkOut is significantly higher than NetworkIn and considering the nature of a high-frequency trading application, the issue most likely lies with network throughput. Moving to a network-optimized instance type would provide higher network bandwidth, which can reduce latency in trades.References: This solution is derived from the Management and Technical Operations domain of the CompTIA Cloud+ objectives, focusing on performance optimization for cloud services.

QUESTION 4

An organization\\'s two-node, hybrid container cluster is experiencing failures during horizontal scaling to the cloud cluster instance. The on-premises IP range is 192.168.0.0/16, and the cloud environment is 10.168.0.0/16. Overlapping or stretched VLANs are not permitted, and a node is deployed in each location. The cloud monitoring agent reports a healthy status for the second instance, but when pinging the clusters from on premises, the following output is received:

pinging cluster1. comptia. containers.com C192.168.100 reply pinging cluster2. comptia. containers.com [192.16B .100 .128] request timed out

Which of the following is the most likely reason for the scaling failure?

A. Incorrect DNS entry

B. Offline cluster node

C. Incorrect proxy entry

D. Incorrect cluster IP

E. Incorrect IP route

Correct Answer: A

QUESTION 5

Between 11:00 a.m. and 1:00 p.m. on workdays, users report that the sales database is either not accessible, sluggish, or difficult to connect to. A cloud administrator discovers that during the impacted time, all hypervisors are at capacity. However, when 70% of the users are using the same database, those issues are not reported. Which of the following is the most likely cause?

A. Oversubscription

B. Resource allocation

C. Sizing issues

D. Service quotas

Correct Answer: A

The most likely cause of accessibility and performance issues during specific times is oversubscription. This happens when more users are trying to access the database than the hypervisors can handle, due to their resources being allocated to more virtual machines or processes than they can efficiently support.References: Resource management concepts such as avoiding oversubscription are covered under the Management and Technical Operations domain of the CompTIA Cloud+ exam objectives.

QUESTION 6

A cloud engineer is designing a high-performance computing cluster for proprietary software. The software requires low network latency and high throughput between cluster nodes.

Which of the following would have the greatest impact on latency and throughput when designing the HPC infrastructure?

A. Node placement

B. Node size

C. Node NIC

D. Node OS

Correct Answer: A

Node placement is critical in high-performance computing (HPC) clusters where low network latency and high throughput are required. Proper placement of nodes within the network infrastructure, including proximity to each other and to key network components, can significantly reduce latency and increase throughput. Ensuring that nodes are physically close and well-connected can facilitate faster data transfer rates between them. References: CompTIA Cloud+ Certification Study Guide (V0-004) by Scott Wilson and Eric Vanderburg

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QUESTION 7

A company has a web application running in an on-premises environment that needs to be migrated to the cloud. The company wants to implement a solution that maximizes scalability, availability, and security, while requiring no infrastructure administration.

Which of the following services would be BEST to meet this goal?

A. A PaaS solution

B. A hybrid solution

C. An IaaS solution

D. A SaaS solution

Correct Answer: A

A PaaS solution, or platform as a service, is a cloud computing service that provides a complete, ready-to-use, cloud-hosted platform for developing, running, maintaining and managing applications1. A PaaS solution would meet the company\\'s goal of maximizing scalability, availability, and security, while requiring no infrastructure administration, because: Scalability: A PaaS solution can automatically scale up or down the resources needed to run the application based on the demand and traffic. The company does not need to worry about provisioning or managing servers, storage, network, or load balancers23. Availability: A PaaS solution can ensure high availability and reliability of the application by replicating it across multiple regions and zones. The company does not need to worry about backup, recovery, or failover23. Security: A PaaS solution can provide built-in security features such as encryption, authentication, authorization, and firewall. The company does not need to worry about installing or updating security patches or software23. No infrastructure administration: A PaaS solution can abstract away the underlying infrastructure and hardware from the company. The company only needs to focus on developing and deploying the application code and data. The PaaS provider takes care of the rest23. A hybrid solution (B) is a cloud computing service that combines on-premises and cloud resources. It may offer some benefits such as flexibility and cost optimization, but it would not meet the company\\'s goal of requiring no infrastructure administration. The company would still need to manage and maintain the on-premises part of the solution4. An IaaS solution ? or infrastructure as a service, is a

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QUESTION 8

A public cloud administrator needs to implement a mechanism to monitor the expense of the company\\'s cloud resources. Which of the following options will allow the administrator to execute this task fastest way and with minimal effort?

A. Set up daily expense reports with the cloud provider.

B. Enable custom notifications for exceeding budget thresholds.

C. Use the API to collect expense information from cloud resources.

D. Implement a financial tool to monitor cloud resource expenses.

Correct Answer: D

QUESTION 9

Which of the following is the best type of database for storing different types of unstructured data that may change frequently?

A. Vector

B. Relational

C. Non-relational

D. Graph

Correct Answer: C

Non-relational (NoSQL) databases are best for storing different types of unstructured data that may change frequently. They are designed to handle a wide variety of data types and are not constrained by the fixed schema of relational databases, making them more flexible and scalable for unstructured data.References: The distinction between relational and non-relational databases and their use cases is part of the foundational knowledge for cloud databases discussed in the CompTIA Cloud+ certification.

QUESTION 10

A cloud solution needs to be replaced without interruptions. The replacement process can be completed in phases, but the cost should be kept as low as possible.

Which of the following is the best strategy to implement?

A. Blue-green

B. Rolling

C. In-place

D. Canary

Correct Answer: B

A rolling strategy is the best to implement when needing to replace a cloud solution without interruptions and keeping costs low. This approach updates or replaces parts of the system gradually with minimal downtime and allows for a phased implementation. References: CompTIA Cloud+ Study Guide (V0-004) - Chapter on Cloud Deployment and Provisioning

QUESTION 11

Which of the following compute resources is the most optimal for running a single scripted task on a schedule?

A. Bare-metal server

B. Managed container

C. Virtual machine

D. Serverless function

Correct Answer: D

Serverless functions are ideal for running scripted tasks on a schedule because they can be triggered by events, run the task, and then shut down, incurring costs only for the actual compute time used. This eliminates the need for a

continuously running server and is optimal for sporadic or scheduled tasks.

References: CompTIA Cloud+ Certification Study Guide (V0-004) by Scott Wilson and Eric Vanderburg.

QUESTION 12

A customer\'s facility is located in an area where natural disasters happen frequently. The customer requires the following:

1.

 Data resiliency due to exposure to frequent natural disasters

2.

 Data localization because of privacy regulations in the country

3.

 High availability

Which of the following cloud resources should be provisioned to meet these requirements?

A. Storage in a separate data center located in same region

B. An on-premises private cloud carrying duplicate data

C. Storage in an availability zone outside the region

D. Storage in the same availability zone as the primary data

Correct Answer: C

To meet the requirements of data resiliency, data localization, and high availability in a region prone to natural disasters, the customer should provision storage in an availability zone outside the region. This ensures that data is not affected by regional disasters and complies with data localization by remaining within the country\'s borders, while also providing high availability.References: Disaster recovery and high availability strategies, including the use of multiple availability zones, are discussed in the CompTIA Cloud+ certification material.

QUESTION 13

SIMULATION

A company hosts various containerized applications for business uses. A client reports that one of its routine business applications fails to load the web-based login prompt hosted in the company cloud.

Click on each device and resource. Review the configurations, logs, and characteristics of each node in the architecture to diagnose the issue. Then, make the necessary changes to the WAF configuration to remediate the issue.

Web app 1

SVC_Host	SVC_Name	SVC IP	SVC_Port
webapp1	FIN	10.22.10.11	443

Web app 2

SVC_Host	SVC_Name	SVC IP	SVC_Port
webapp2	VIDEO	10.22.10.21	443

Web app 3

SVC_Host	SVC_Name	SVC IP	SVC_Port
webapp3	API	10.22.10.31	443

Web app 4

SVC_Host	SVC_Name	SVC IP	SVC_Port
webapp4	CHAT	10.22.10.41	443

A. See the below for solution.

B. PlaceHolder

C. PlaceHolder

D. PlaceHolder

Correct Answer: A

From the image, it\\'s noticeable that some finance application rules are set to "Block" traffic. If the client\\'s issue is with a finance-related application not loading the login prompt, these rules could be the cause.

The rule with ID 1005, labeled "Finance application 1", is configured to allow access to "webapp1" for finance-related paths. However, rule 1006, labeled "Finance application 2", is set to block access to "webapp1" for login-related paths. To

remediate the issue based on the WAF configuration you have provided, you would want to:

Ensure that the correct paths to the finance application are allowed through the WAF.

Modify any rules that are incorrectly blocking access to the application. If the client\\'s problem is specifically with the login prompt, then rule 1006 seems the most likely culprit. Changing the action from "Block" to "Allow" for rule 1006 could

potentially resolve the client\\'s issue. The rule should be carefully reviewed and updatedto ensure legitimate traffic is not being blocked while still protecting against unauthorized access.

QUESTION 14

A systems administrator is implementing a new version of a company\\'s primary human- resources application. An upgrade will be performed on the production server, as there is no development environment. The administrator needs to have a plan in case something goes wrong with the upgrade.

Which of the following will work best to ensure a quick rollback in case an issue arises?

A. An application-level backup

B. A production snapshot

C. A full backup

D. A differential backup

Correct Answer: B

A production snapshot is a point-in-time copy of the state and data of a production server or instance. It can be used to restore the server or instance to the exact state it was in when the snapshot was taken, in case of a failure, error, or corruption. A production snapshot can help to ensure a quick rollback in case an issue arises during an application upgrade, as it can revert the changes made by the upgrade and restore the previous version of the application. A production snapshot can also preserve the configuration and settings of the server or instance, as well as the application data and dependencies. A production snapshot is different from a backup, which is a copy of the data only, and may not include the state or configuration of the server or instance. References: CompTIA Cloud+ CV0-003 Study Guide, Chapter 2: Deploying a Cloud Environment, page 75- 76; Snapshots vs Backups: Key Differences and Similarities.

QUESTION 15

A cloud security analyst is investigating the impact of a recent cyberattack. The analyst is reviewing the following information: Web server access log:

104.210.233.225 - - [21/10/2022:11:17: 40] "POST /uploadfile.html?f=myfile.php" 200 1638674

45.32.10.66 - - [21/10/2022:11:19:12] "GET /welcome.html" 200 5812

104.210.233.225 - - [21/10/2022:11:21:19] "GET / .. / .. / .. / .. /conf/server.xml HTTP/1.1" 200 74458

45.32.10.66 - - [21/10/22:11:22:32] "GET /admin.html HTTP/1.1" 200 9518

Web application firewall log:

"2022/10/21 11:17:33" "10.25.2.35" "104. 210.233.225" "userl" "File transfer completed successfully."

"2022/10/21 11:21:05" "10. 25.2. 35" "104. 210.233.225" "userl" "Accessed application page."

"2022/10/21 11:22:13" "10.25.2.35" "45. 32. 10. 66" "user2" "Accessing admin page. "

Which of the following has occurred?

A. The corporate administration page was defaced by the attacker.

B. A denial-of-service attack was successfully performed on the web server.

C. A new user was created on the web server by the attacker.

D. Sensitive information from the corporate web server was leaked.

Correct Answer: D

The logs indicate that the IP address 104.210.233.225 made a GET request that appears to traverse directories (as indicated by the \\'/../../\\') to access \\'server.xml\\', which is a configuration file for the server. This type of request is

indicative of a directory traversal attack, which can lead to unauthorized access to sensitive files on the server. The successful 200 response code suggests that the file was accessed, implying that sensitive configuration data could have been leaked. References: CompTIA Cloud+ Certification Study Guide (V0-004) by Scott Wilson and Eric Vanderburg

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