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QUESTION 1

A systems administrator adds servers to a round-robin, load-balanced pool, and then starts receiving reports of the website being intermittently unavailable. Which of the following is the MOST likely cause of the issue?

- A. The network is being saturated.
- B. The load balancer is being overwhelmed.
- C. New web nodes are not operational.
- D. The API version is incompatible.
- E. There are time synchronization issues.

Correct Answer: C

New web nodes are not operational is the most likely cause of the issue of website being intermittently unavailable after adding servers to a round-robin, load-balanced pool. A round-robin, load-balanced pool is a method of distributing network traffic evenly and sequentially among multiple servers or nodes that provide the same service or function. A round-robin, load-balanced pool can help to improve performance, availability, and scalability of network applications or services by ensuring that no server or node is overloaded or underutilized. New web nodes are not operational if they are not configured properly or functioning correctly to provide web service or function. New web nodes are not operational can cause website being intermittently unavailable by disrupting the round-robin, load-balanced pool and creating inconsistency or unreliability in web service or function.

QUESTION 2

A cloud security engineer needs to ensure authentication to the cloud provider console is secure. Which of the following would BEST achieve this objective?

- A. Require the user's source IP to be an RFC1918 address
- B. Require the password to contain uppercase letters, lowercase letters, numbers, and symbols
- C. Require the use of a password and a physical token.
- D. Require the password to be ten characters long

Correct Answer: C

Reference: https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_two-step-verification.html

QUESTION 3

A cloud administrator needs to deploy a security virtual appliance in a private cloud environment, but this appliance will not be part of the standard catalog of items for other users to request. Which of the following is the BEST way to accomplish this task?

- A. Create an empty VM, import the hard disk of the virtual appliance, and configure the CPU and memory.



- B. Acquire the build scripts from the vendor and recreate the appliance using the baseline templates.
- C. Import the virtual appliance into the environment and deploy it as a VM.
- D. Convert the virtual appliance to a template and deploy a new VM using the template.

Correct Answer: D

Reference: <https://www.techtarget.com/searchcloudcomputing/definition/private-cloud>

QUESTION 4

A company is planning to migrate applications to a public cloud, and the Chief Information Officer (CIO) would like to know the cost per business unit for the applications in the cloud. Before the migration, which of the following should the administrator implement FIRST to assist with reporting the cost for each business unit?

- A. An SLA report
- B. Tagging
- C. Quotas
- D. Showback

Correct Answer: B

Tagging is what the administrator should implement first to assist with reporting the cost for each business unit for applications in a public cloud environment. Tagging is a technique that allows customers to assign metadata or labels to their cloud resources, such as applications, instances, volumes, etc., based on their attributes or criteria. Tagging can help customers to organize, manage, monitor, and report their cloud resources and costs by business unit, project, owner, environment, etc.

Reference: <https://www.linkedin.com/pulse/cloud-showback-critical-piece-enterprise-governance-how-gowda/>

QUESTION 5

A cloud administrator needs to reduce storage costs. Which of the following would best help the administrator reach that goal?

- A. Enabling compression
- B. Implementing deduplication
- C. Using containers
- D. Rightsizing the VMs

Correct Answer: B

Explanation: Deduplication is a process by which redundant data is eliminated, thus reducing the size of the dataset. Deduplication with cloud storage reduces the storage requirements, along with the amount of data to be transferred over the network, resulting in faster and more efficient data protection operations¹. Deduplication can help to shrink the data footprint, lower the storage costs, and improve the performance of backup and recovery processes². Deduplication can



be applied at different levels, such as file-level, block-level, or byte-level, depending on the granularity and efficiency of the technique³. Deduplication can also be performed at different locations, such as source, target, or cloud, depending on the architecture and design of the storage system³. By implementing deduplication, a cloud administrator can achieve significant data savings and optimize the cloud storage costs⁴. References: Data deduplication techniques for efficient cloud storage management: a systematic review; How Data Deduplication Reduces Cloud Data Costs; How Data Deduplication Can Save Cloud Storage Costs?; Data Deduplication Overview; What is Data Deduplication and How Can it Help Reduce Cloud Costs?.

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