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**QUESTION 1**

An organization has a web-server farm. Which of the following solutions should be implemented to obtain efficient distribution of requests to these servers?

- A. A clustered web server infrastructure
- B. A load-balancing appliance
- C. A containerized application
- D. Distribution of web servers across different regions and zones

Correct Answer: B

A web-server farm is a group of web servers that work together to provide high availability and scalability for web applications¹. A web-server farm can handle a large number of requests from clients by distributing the workload among the

servers. A load-balancing appliance is a device that sits between the clients and the web servers and distributes the incoming requests to the servers based on a predefined algorithm². A load-balancing appliance can improve the

performance, reliability, and security of a web-server farm by providing the following benefits²:

Load balancing: It ensures that no single server is overloaded and that all servers are utilized efficiently.

Failover: It detects and redirects requests from failed or unavailable servers to healthy ones.

Health monitoring: It periodically checks the status and performance of the servers and reports any issues or anomalies.

SSL offloading: It terminates the SSL connections from the clients and forwards the requests to the servers in plain text, reducing the encryption overhead on the servers. Caching: It stores frequently requested content in its memory and

serves it to the clients, reducing the network traffic and load on the servers. A clustered web server infrastructure is a configuration where multiple web servers are connected to a shared storage device and appear as a single logical server to

the clients³. A clustered web server infrastructure can provide high availability and fault tolerance for web applications, but it does not provide load balancing or scalability.

Therefore, option A is incorrect.

A containerized application is an application that is packaged with its dependencies and runtime environment in a lightweight and portable unit called a container. A containerized application can run on any platform that supports container

technology, such as Docker or Kubernetes. A containerized application can provide portability, consistency, and isolation for web applications, but it does not provide load balancing or scalability by itself.

Therefore, option C is incorrect.

Distribution of web servers across different regions and zones is a strategy that involves deploying web servers in multiple geographic locations to serve clients from different areas. Distribution of web servers across different regions and



zones can provide low latency, high availability, and disaster recovery for web applications, but it does not provide load balancing or scalability within each region or zone. Therefore, option D is incorrect.

QUESTION 2

A cloud architect is reviewing the design for a new cloud-based ERP solution. The solution consists of eight servers with a single network interface. The allocated IP range is 172.16.0.0/28. One of the requirements of the solution is that it must be able to handle the potential addition of 16 new servers to the environment. Because of the complexity of the firewall and related ACL requirements, these new servers will need to be in the same network range. Which of the following changes would allow for the potential server addition?

- A. Change the IP address range to use a 10.0.0.0 address.
- B. Change the server template to add network interfaces.
- C. Change the subnet mask to use a 255.255.255.128 range.
- D. Change the server scaling configuration to increase the maximum limit.

Correct Answer: C

QUESTION 3

A company wants to take advantage of cloud benefits while retaining control of and maintaining compliance with all its security policy obligations. Based on the non-functional requirements, which of the following should the company use?

- A. Hybrid cloud, as use is restricted to trusted customers
- B. IaaS, as the cloud provider has a minimal level of security responsibility
- C. PaaS, as the cloud customer has the most security responsibility
- D. SaaS, as the cloud provider has less security responsibility

Correct Answer: B

QUESTION 4

An organization provides integration services for finance companies that use web services. A new company that sends and receives more than 100,000 transactions per second has been integrated using the web service. The other integrated companies are now reporting slowness with regard to the integration service. Which of the following is the cause of the issue?

- A. Incorrect configuration in the authentication process
- B. Incorrect configuration in the message queue length
- C. Incorrect configuration in user access permissions



D. Incorrect configuration in the SAN storage pool

Correct Answer: B

Reference: <https://www.ibm.com/docs/en/ibm-mq/9.1?topic=i-determining-problems-applications-commands-messages>

QUESTION 5

A cloud administrator updates the syslog forwarder configuration on a local server in production to use a different port. The development team is no longer receiving the audit logs from that server. However, the security team can retrieve and search the logs for the same server. Which of the following is MOST likely the issue?

- A. The development team is not looking at the correct server when querying for the logs.
- B. The security team has greater permissions than the development team.
- C. The audit logging service has been disabled on the server.
- D. The development team's syslog server is configured to listen on the wrong port.

Correct Answer: B

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