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## Advanced Cloud Architecture

SOA S90.05

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## QUESTION NO: 1

The following statements describe how the automated scaling listener mechanism can be used as part of the system that is established by the application of the Elastic Resource Capacity pattern.

Which of these statements are false? (Choose Two)

- A. The automated scaling listener notifies the intelligent automation engine to execute a script that instructs the hypervisor to allocate additional resources.
- B. The automated scaling listener assigns additional CPUs to the virtual server, based on the workload processing requirements.
- C. The automated scaling listener monitors message traffic between cloud service consumers and the cloud services being hosted by the virtual server to which the pattern has been applied.
- D. The automated scaling listener withdraws previously assigned CPUs when they are no longer needed and returns them to the shared resource pool.

**ANSWER: B D**

## QUESTION NO: 2

The cloud architecture that is established by the application of the Storage Workload Management pattern can rely on the storage capacity monitor to: (Choose Two)

- A. notify the storage capacity system whenever a cloud storage device is being over-utilized
- B. migrate LUN5 to different cloud storage devices
- C. detect when the workload of a cloud storage device has reached a pre-defined threshold
- D. act as an external interlace to a cloud storage service

**ANSWER: A C**

## QUESTION NO: 3

The \_\_\_\_\_ pattern is applied to establish a \_\_\_\_\_ system that can address failure conditions that occur at runtime. This system can monitor and respond to a range of failure conditions.

- A. Dynamic Data Normalization, usage monitoring
- B. Service Load Balancing, load balancing
- C. Synchronized Operating State, failover
- D. Dynamic Failure Detection and Recovery, resilient watchdog

**ANSWER: D**

## QUESTION NO: 4

The data de-duplication system checks each block of data to determine whether it is \_\_\_\_\_ with a block that has already been received. The \_\_\_\_\_ blocks are replaced with pointers to their equivalent blocks that are already in storage.

- A. combined, combined
- B. scaled, scaled
- C. redundant, redundant
- D. load balanced, load balanced

**ANSWER: C**

## QUESTION NO: 5

Which of the following statements about the system that is established by the application of the Storage Workload Management pattern are? (Choose all that apply)

- A. The system can distribute workloads across multiple cloud storage devices at runtime.
- B. The system supports the grouping of cloud storage devices to improve the balanced distribution of data.
- C. The system can use the automated scaling listener to equalize the workload across cloud storage devices.
- D. The system can incorporate the use of the LUN migration program to distribute the runtime workload.

**ANSWER: A B C D**

## QUESTION NO: 6

The system resulting from the application of the Direct I/O Access pattern enables virtual servers to recognize an I/O card as a hardware device.

- A. True
- B. False

**ANSWER: A**

## QUESTION NO: 7

The benefits of the cloud architecture that is established by applying the Cloud Balancing compound pattern include: (Choose Three)

- A. improved IT resource performance
- B. improved IT resource availability
- C. improved IT resource failover (across clouds)
- D. improved IT resource discovery (across clouds)

**ANSWER: A B C**

## QUESTION NO: 8

Which pattern can be applied to establish a failover system for cloud storage devices that enables continuous data access for cloud consumers?

- A. Direct LUN Access
- B. Redundant Storage
- C. Storage Workload Management
- D. Intra-Storage Device Vertical Tiering

**ANSWER: B**

## QUESTION NO: 9

Applying the \_\_\_\_\_ pattern establishes an elastic provisioning system that is capable of dynamically allocating and reclaiming \_\_\_\_\_ for virtual servers.

- A. Elastic Network Capacity, physical network ports
- B. Elastic Resource Capacity, CPUs and RAM memory
- C. Elastic Disk Provisioning, bandwidth
- D. None of the above.

**ANSWER: B**

## QUESTION NO: 10

The application of the Cross-Storage Device Vertical Tiering pattern establishes a system that: (Choose Two)

- A. horizontally scales across multiple redundant cloud storage devices

- B. vertically scales within a single cloud storage device
- C. can survive bandwidth and data processing power constraints
- D. vertically scales across multiple cloud storage devices

**ANSWER: C D**