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Advanced Cloud Architecture

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QUESTION NO: 1

Applying the Dynamic Failure Detection and Recovery pattern establishes a _____that can monitor and respond to runtime failure conditions.

A. Watchdog system

B. Capacity planner system

C. Failover system
C D. Intelligent automation engine

ANSWER: A

QUESTION NO: 2

The system that is established by the application of the Hypervisor Clustering pattern uses a dedicated cloud storage device for each clustered hypervisor, to support the live migration of virtual servers across the hypervisors.

A. True

B. False

ANSWER: B

QUESTION NO: 3

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: 4

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: 5

The system that is established by the application of the Dynamic Failure Detection and Recovery pattern can address which of the following issues: (Choose Three)

A. cloud-based bare-metal physical servers need to be provisioned with operating systems

B. cloud-based IT resources encountering runtime failure conditions require intervention

C. the manual process to solve cloud-based IT resource failure is too slow

D. the manual recovery of IT resources leads to additional failures

ANSWER: B C D

QUESTION NO: 6

_____ and _____are two examples of problems that can be prevented by applying the Load Balanced Virtual Switches pattern.

A. Physical uplink failure, empty data packets

B. Slow transfer rates, data packet loss

C. Virtual server failure, hypervisor failure

D. None of the above.

ANSWER: D

QUESTION NO: 7

The Cross-Storage Device Vertical Tiering pattern can be applied to enable _____between cloud storage devices.

A. Vertical scaling

B. Live migration

C. High connectivity

D. Dynamic allocation

ANSWER: A

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

Which of the following statements about the system that is established by the application of the Redundant Physical Connection for Virtual Servers pattern are true? (Choose Three)

A. The system can establish multiple redundant uplink connections.

B. The system can prevent cloud consumers from losing connectivity to virtual servers.

C. The system regulates the bandwidth that is allocated to individual uplink connections.

D. The system places redundant uplink connections in standby mode.

ANSWER: A B D

The _____ program that is implemented when applying the Hypervisor Clustering and Zero Downtime patterns can be used to move a virtual server to a different physical server host at runtime.

A. resilient watchdog

B. load balancer

C. live storage migration

D. live VM migration

ANSWER: D