Vendor:EMC

Exam Code:E20-020

Exam Name: Cloud Infrastructure Specialist Exam for Cloud Architects

Version: Demo

QUESTION 1

During the assessment phase of the design process, the cloud architect discovers that an organization wants to provide consumers with the ability to backup and restore entire virtual machines. Which backup application functionality will support this requirement?

A. Agent-based backups

B. Image-based backups

C. Array-based snapshots

D. Cloud gateway backups

Correct Answer: B

QUESTION 2

What needs to be considered when designing a distributed storage solution?

A. Multiple management tools

B. Fault domain detection and isolation to ensure data availability

C. RAID configuration to ensure a drive failure is avoided

D. Automated storage tiering to enable efficient use of drive

Correct Answer: B

QUESTION 3

A cloud architect is designing a distributed block storage solution that will support application HA. The solution will consist of 10 nodes with all SAS devices. There are five racks available in the data center. Each rack has a single top-of-rack access layer switch with sufficient bandwidth to the aggregate layer. Each node will have multiple connections to the local top-of-rack switch.

The architect wants to provide a design that has the fewest number of storage pools maximizing the number of fault domains. How should the storage pools be designed?

A. One pool with SSD nodes located in one rackOne pool with all SAS nodes located in a different rack

B. One pool with 50% SSD and 50% SAS nodes distributed equally across five racks

C. One pool with SSD nodes distributed equally across five racksOne pool with all SAS nodes distributed equally across five racks

D. One pool with 50% SSD and 50% SAS nodes located in one rackOne pool with 50% SSD and 50% SAS nodes located in a different rack

Correct Answer: C

QUESTION 4

An organization uses Microsoft Active Directory (AD) for service authentication in their private cloud. They want to use the same authentication source for services in the public cloud. External employees access services in both clouds and need to authenticate with AD.

The organization wants to minimize and secure network traffic. Which solution will address these requirements?

A. Connect the two clouds through IPsec VPNPlace AD controllers in the private cloud only

B. Connect the two clouds through IPsec VPNPlace AD controllers in the private and public clouds

C. Configure perimeter firewalls to allow AD traffic Place AD controllers in the private and public clouds

D. External users connect with IPsec VPNPlace AD controllers in the private cloud only

Correct Answer: B

QUESTION 5

A cloud architect is evaluating an organization\\'s need to support thousands of virtual machine instances and some form of encryption. Which encryption type should be selected and why?

A. Storage array encryption to provide centralized management

B. Full file systems encryption to simplify key management

C. Network-based encryption to increase security at the cost of server overhead

D. Self-encrypting storage devices to increase security at the cost of increased overhead

Correct Answer: B

QUESTION 6

What are key benefits of ITaaS compared to traditional IT processes?

A. Tiered services, integrated inventory management, and SLA-driven profit model

B. Service catalog, SLA-driven management, and chargeback

C. Strong policies, DevOps, and software licensing

D. Ticket-based service model, cost, and chargeback

Correct Answer: B

QUESTION 7

What are general design considerations for inter-cloud links?

A. Internet connection, network service provider adjacent to the cloud provider, and application behavior

B. Router and load balancer session synchronization, Internet connection, and network service provideradjacent to the cloud provider

C. Application behavior, router and load balancer session synchronization, and Internet connection

D. Network service provider adjacent to the cloud provider, application behavior, and router and load balancersession synchronization

Correct Answer: B

QUESTION 8

Which set of general criteria should the cloud architect consider when selecting a cloud management platform?

A. Multi-tenancy, API version, and cross-platform awareness

B. Hypervisor, hybrid cloud capabilities, and authentication

C. Geographic region, networked storage, and Internet access

D. Network storage, operating system drivers, and update services

Correct Answer: B

QUESTION 9

An organization plans to deploy a spine/leaf network topology to support a cloud design. Leaf switches will use layer-3 protocols to communicate with the spine switches. Hosts will each connect to two leaf switches using layer-2 protocols.

Which technology must be enabled between the host and leaf switches to provide the maximum throughput for a single data stream?

A. Generic Network Virtualization Encapsulation

B. Spanning Tree Protocol

C. Equal-Cost Multi-Path Routing

D. Multi-Chassis Aggregation

Correct Answer: A

QUESTION 10

After developing prototype applications in the public cloud, developers determined that they want softwaredefined network functionality. Which ability will this requirement provide for the developers?

A. Programmatically provision an IPsec VPN tunnel between the public and private clouds

B. Programmatically migrate layer-3 access from aggregate to access switches

C. Programmatically control physical core network topologies

D. Programmatically provision physical network segments and services

Correct Answer: D

QUESTION 11

An organization wants to have showback capability in their private cloud. Which cloud management platform component should be included in the cloud design to support this requirement?

A. SSO

B. Service catalog

C. Metering application

D. Monitoring application

Correct Answer: C

QUESTION 12

Which aspect of the project definition does the cloud design scope provide?

A. Broad directions for the project

B. Boundaries of what the project should and should not include

C. Sales figures that must be met when designing the project

D. Specific features or functions that must be included in the project

Correct Answer: D