Virtualized Data Center and Cloud Infrastructure Design Specialist

1. You are planning to deploy a virtualized application in a high-availability configuration with automated VM restart on a hypervisor cluster. Your sizing estimates show that peak workload conditions will saturate the processing power of five hypervisor servers.

A. 7

B. 6

C. 8

D. 5

Answer(s): A

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2. What is the primary benefit of Virtual Storage Integrator (VSI)?

A. It enables a network administrator to manage VSANs and VLANs with a common interface.

B. It eliminates the need for array-based thin pools.

C. It enables a server administrator to provision storage to a hypervisor.

D. It enables a storage administrator to create storage pools on the array.

Answer(s): C

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3. Which backup solution(s) should be your preferred choice(s) when you require consistent backups for ease of recovery?

A. Hypervisor-based ("VM as flat file") backup

B. Storage-based backup only

C. Storage-based backup and VM-based backup

D. VM-based backup and image-based backup

Answer(s): D

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4. A small company is deploying VDI as part of their VDC initiative. The storage array that is currently being used for VDI and other applications contains SSD, SAS and NL SAS drives. The SSDs are being used exclusively for the Email servers, and the SAS and NL SAS drives are being used by all the applications, including VDI. Each application is configured to use one or more storage pools.

A. Purchase new SSDs for the other applications.

B. Migrate the LUNs on the SSDs to SAS drives, then allocate the SSDs to the VDI storage pool.

C. Purchase new SSDs to use for the VDI deployment.

D. Migrate the LUNs on the SSDs to SAS drives, then allocate the SSDs to a caching tier.

Answer(s): D

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5. A company wants to ensure that their critical application can fail over to another physical host within the cluster without disruption.

A. High Availability

B. Resource Pooling

C. Fault Tolerance

D. Online Migration

Answer(s): C

6. What capabilities are needed to transform a VDC into IaaS?

A. Pay-as-you-go, service catalog

B. Self-service portal, service catalog, metering processes

C. Metering processes, multi-tenancy, termination agreements

D. Self-service portal, pay-as-you-go

Answer(s): B

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7. An application processes test results from a manufacturing facility, then generates and archives quality reports. The application runs on an old, but still supported UNIX system. It was developed by an organization's IT department 10 years ago.

A. An enterprise application

B. Vendor lock-in

C. A legacy application

D. Service-oriented architecture

Answer(s): C

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8. A company requires their application, which is running on a virtual server, to be continuously available. They would like to provide automatic failover and non-disruptive failure recovery.

A. High Availability

B. Resource Pooling

C. Fault Tolerance

D. Online Migration

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9. In which situation should you consider implementing hypervisor over-provisioning?

A. Performance is a primary and critical consideration

B. Multiple applications with peak workload times that do not overlap

C. A mix of Tier-1 and Tier-2 applications in the same hypervisor cluster

D. Multiple applications with the same peak workload times

Answer(s): B

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10. The corporate data center has role segregation between network, security, and OS/systems administrators.

A. Brocade ED-10000

B. Third-party virtual switch

C. VMware vDistributed switch

D. Basic VMware vSwitch

Answer(s): B

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11. Which product eliminates the need to manually replicate data to a secondary file system?

A. Cisco WAFS

B. Cisco UCS

C. EMC Isilon

D. EMC VFCache

Answer(s): C

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12. What does using the cloud for a DR site offer protection against?

A. Vendor lock-in

B. Geo-specific outages

C. Cyber security threats

D. Non-competitive pricing

Answer(s): B

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13. To ensure cost and resource efficiency, your customer is concerned with the configuration management of their IT infrastructure.

A. Fed elated CMDB

B. CMDB

C. Asset management system

D. Configuration CMDB

Answer(s): B

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14. A company has implemented a VDI solution. A user logs in to their virtual desktop for the first time and customizes the environment before logging off for the day. When they return the next day, all of their customizations are gone.

A. Stateful

B. Thin

C. Stateless

D. Remote

Answer(s): D

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15. A tenant of your service provider/hosting company requires that their data be completely isolated from other tenant data.

A. Separate ports with dedicated LUNs

B. Shared ports with dedicated pools

C. Shared pools with separate LUNs

D. Separate ports with dedicated pools

Answer(s): D

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16. You are using virtual (thin) provisioning to reduce the amount of physical storage that is initially required for an implementation.

A. 50 TB

B. 10 TB

C. 100 TB

D. 60 TB

Answer(s): B

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17. Why is the need for host-based agents a disadvantage in a block storage virtualization environment with on-of band virtualization appliance?

A. Functional limitations

B. Capacity limitations

C. Performance concerns

D. Management complexity

Answer(s): C

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18. When using logging to maintain server security, which is the key element for intrusion detection and should be contained the server logs?

A. Alerts to suspicious activities that require further investigation.

B. Results of penetration testing through uncover problem probable weaknesses.

C. Vulnerability scan that identifies susceptible services that are active on the server.

D. An entry for each application transaction with details of the organization.

Answer(s): A

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19. A small college asks you to design a VDC that will span four data centers located within a campus environment. They want to have the VLANs stretched across all four locations. They also require stretched clusters spanning pairs of data centers.

A. CWDM

B. MPLS

C. DWDM

D. Dark Fiber

Answer(s): D

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20. Which design consideration helps reduce risk when data is co-mingled across different business units in a VDC or between companies or between clouds?

A. Having a formal disk assessment process

B. Regulations that specify data that can be co-mingled

C. Creating trust zones

D. Creating unique login IDs

Answer(s): B