



Vendor: EMC

Exam Code: E20-018

Exam Name: Virtualized Infrastructure Specialist Exam for
Cloud Architects

Version: DEMO

QUESTION 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. To meet the SLA, N+1 redundancy is required on the hypervisor servers, with server utilization not to exceed 85% under any conditions.

What is the minimum number of nodes that you should configure in the hypervisor cluster?

- A. 5
- B. 6
- C. 7
- D. 8

Answer: C

QUESTION 2

In which situation should you consider implementing a non-over-provisioned hypervisor design?

- A. A high degree of server consolidation is a critical goal
- B. Tier-1 applications are not virtualized
- C. Multiple applications with peak workload times that do not overlap
- D. Applications requiring guaranteed performance and availability

Answer: D

QUESTION 3

In a non-virtualized environment, what is the primary problem with attempting consolidation by deploying multiple applications per server?

- A. Incompatibility between drivers and libraries across applications
- B. Increased risk of security breaches
- C. Compromised availability of applications
- D. Underutilized resources and increased server sprawl

Answer: A

QUESTION 4

What is a feature of the Cisco Unified Computing System (UCS)?

- A. Stateless hardware identity
- B. CMDB maintenance utilities
- C. Layer 3 routing optimization
- D. Fabric reconfiguration services

Answer: A

QUESTION 5

A VDC environment will be deployed with several virtual machines (VMs). The datastores for the VMs will be hosted on a storage array. Array-based local replication has been proposed as the

BC/DR solution. Restore granularity will be at the individual VM level.
What is the simplest data layout that would meet this requirement?

- A. A single large LUN for all virtual disks
- B. An individual LUN for all virtual disks of each VM
- C. All virtual disks on the boot LUN of the hypervisor
- D. An individual LUN for each virtual disk

Answer: B

QUESTION 6

A tenant of your service provider/hosting company requires that their data be completely isolated from other tenant data. Which implementation would best meet the tenant's requirement?

- A. Separate ports with dedicated LUNs
- B. Separate ports with dedicated pools
- C. Shared ports with dedicated pools
- D. Shared pools with separate LUNs

Answer: B

QUESTION 7

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

On the storage array, you configure a pool that contains 10 TB of physical storage and then define several LUNs that total 50 TB. These LUNs are presented to several hypervisor clusters. Virtual Machines are subsequently created using a thick format for the virtual hard disks. What is the maximum capacity that can be allocated for VM hard disks in this configuration?

- A. 10 TB
- B. 50 TB
- C. 60 TB
- D. 100 TB

Answer: A

QUESTION 8

As part of a VDC deployment, you are examining the existing storage configurations. On one storage system, you discover over fifty storage pools. The pools contain a single type of drive (SSD, SAS or NL SAS), but many of them contain only a few drives and share the same RAID configuration. The Storage Administrator admits that they have been creating separate pools for each application because they did not want the applications contending for the disks.

As part of the design, you propose to consolidate the existing pools into larger pools of mixed drive types and RAID configurations.

What technology will you need to implement to utilize the new pool design?

- A. Virtual Provisioning
- B. Caching Tier
- C. Storage Virtualization
- D. Storage Tiering

Answer: D

QUESTION 9

A company has five heterogeneous storage arrays that are all connected to a common SAN environment.

They want to offer storage to their end users, masking the identity of the target storage so the users cannot tell which storage system they are using.

Which virtualization technique would work in this environment?

- A. Distributed virtualization
- B. Block-level storage virtualization
- C. Hadoop HDFS
- D. File-level storage virtualization

Answer: B

QUESTION 10

A VDC administrator needs to create a virtual distributed file system. Which file storage protocol would best meet their requirement?

- A. iSNS
- B. pNFS
- C. NFS
- D. NTFS

Answer: B

QUESTION 11

Refer to the exhibit.

You are designing the storage environment for a new VDC. The applications have been classified into three groups, as shown in the exhibit. You have chosen to create a storage pool for each application group.

How should you configure the storage for each pool to meet the performance and capacity requirements, while minimizing costs?

Application Group	I/O Rate	I/O Bursts	Capacity
Group 1	High	No	Low
Group 2	Medium	Yes	Medium
Group 3	Low	Yes	High

- A. Pool 1 - SSD and SAS drives with storage tiering
Pool 2 - SAS and NL SAS drives with storage tiering and cache tiering
Pool 3 - SAS and NL SAS drives with storage tiering and cache tiering
- B. Pool 1 - SSD and SAS drives with storage tiering
Pool 2 - SSD and NL SAS drives with storage tiering
Pool 3 - SAS drives with cache tiering
- C. Pool 1 - SSD and SAS drives with storage tiering
Pool 2 - SAS and NL SAS drives with storage tiering and cache tiering

- Pool 3 - NL SAS drives with cache tiering
- D. Pool 1 - SSD and SAS drives with storage tiering and cache tiering
Pool 2 - SAS and NL SAS drives with storage tiering and cache tiering
Pool 3 - NL SAS drives with cache tiering

Answer: C

QUESTION 12

You are meeting with the CIO to discuss your VDC design. They QUESTION NO: the amount of capital that is being invested in iSCSI adapters. They state that, because of the number of adapters required, it is more costeffective to purchase 10 Gigabit Ethernet NICs and use the integrated hypervisor software stack.

What effect will this have on the design?

- A. Larger form-factor hypervisors will be required
- B. Fewer hypervisors will be required
- C. More hypervisors will be required
- D. Smaller form-factor hypervisors will be required

Answer: C

QUESTION 13

You have decided to pursue a "scale-out" approach instead of a "scale-up" approach to storage. What is the fundamental tradeoff that you have made?

- A. Complexity of management versus limited scalability
- B. Improved availability versus unlimited scalability
- C. Higher application throughput versus degraded response time
- D. Ease of storage tiering versus unpredictable performance

Answer: A

QUESTION 14

Which is a scale-out NAS solution that can distribute data over multiple nodes for resiliency?

- A. EMC VPLEX
- B. EMC Symmetrix VMAX
- C. EMC Isilon
- D. EMC VNX

Answer: C

QUESTION 15

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.

Which distance networking technology would most cost effectively address their requirements?

- A. Dark Fiber

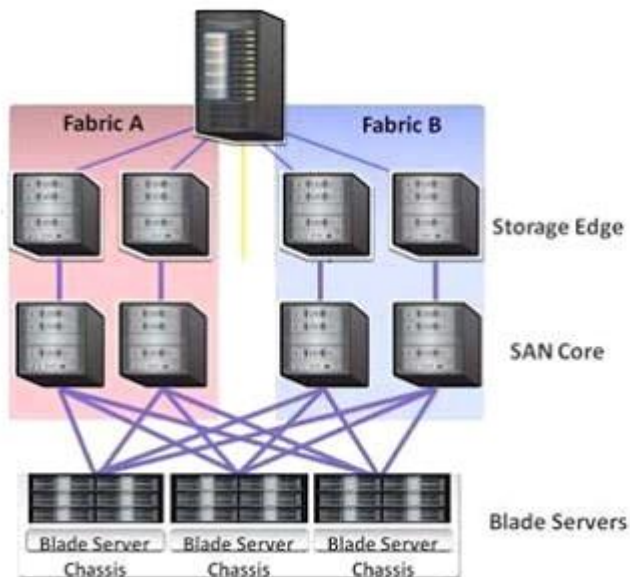
- B. MPLS
- C. CWDM
- D. DWDM

Answer: A

QUESTION 16

Refer to the exhibit.

A VDC design requires 300 blade server chassis, each with two embedded Fibre Channel switches, which are connected to two separate SAN fabrics. All of the blade chassis FC switches are configured in NPV mode, and the SAN core switches are configured in NPIV mode. Where can the administrator make zoning changes?



- A. SAN core or storage edge
- B. Blade chassis or SAN core
- C. Blade chassis only
- D. SAN core only

Answer: A

QUESTION 17

You are designing a VDC that uses converged networking to support both LAN and SAN traffic. FCoE is used exclusively for storage access. The access and aggregation layer switches that have been chosen support both 10 and 40 Gigabit Ethernet and Data Center Bridging. You have determined that the traffic between the access layer and aggregation layer switches is:

- Average SAN (FCoE)-60 Gb/s
- Average LAN (Ethernet)-100 Gb/s
- Burst SAN (FCoE)-80 Gb/s
- Burst LAN (Ethernet)-130 Gb/s

The port channeling technology you are using requires that channels be configured with even

numbers of links. Performance cannot be degraded due to a failure of a single switch. Which port configuration would support the average and burst traffic between the access and aggregation layer switches?

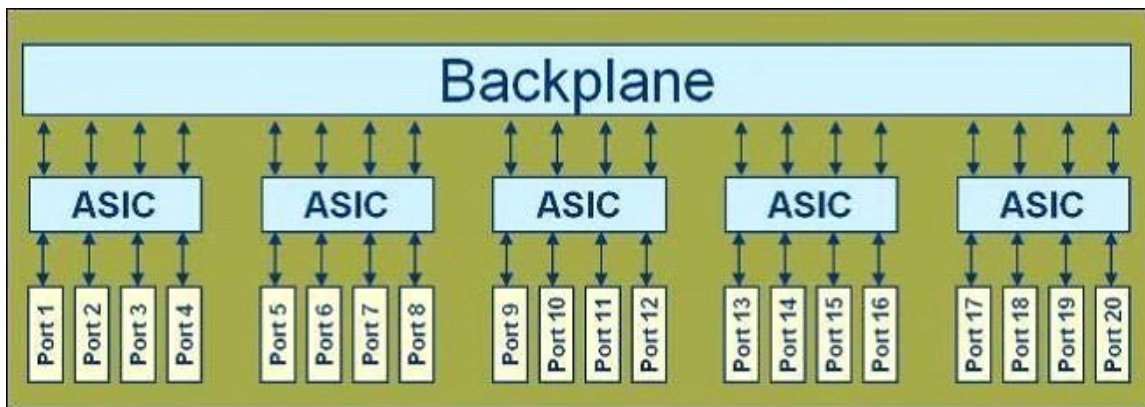
- A. Four 40 Gb/s ports and six 10 Gb/s ports
- B. Four 40 Gb/s ports and eight 10 Gb/s ports
- C. Six 40 Gb/s ports
- D. Six 40 Gb/s ports and two 10 Gb/s ports

Answer: B

QUESTION 18

Refer to the exhibit.

You are configuring the SAN environment of a VDC using switches with a Switch on a Chip architecture. A high I/O hypervisor is connected to Port 1 on the switch. Where should you make the ISL connection to provide the lowest latency?



- A. Port 4
- B. Port 5
- C. Port 8
- D. Port 20

Answer: A

QUESTION 19

What is a key advantage of Cisco SME relative to other encryption products?

- A. Provides a data encryption solution for disk or tape storage
- B. Can offload encryption processing to hosts
- C. Can offload encryption processing to both hosts and storage arrays
- D. Can leverage RSA Key Manager for key management

Answer: A

QUESTION 20

Which mode of IPSec encrypts only the payload of the IP packet?

- A. Trusted
- B. Transparent
- C. Transport
- D. Tunnel

Answer: C

QUESTION 21

Which cloud deployment model would most likely be implemented in an "on demand" or "pay as you go" environment?

- A. Private
- B. Hybrid
- C. Public
- D. Community

Answer: C

QUESTION 22

What is typically included with an IaaS bundle featuring compute, storage, and networking?

- A. Encryption technology
- B. Management tools
- C. Integrated development environment
- D. Storage virtualization

Answer: B

QUESTION 23

A company is considering converting their VDC to IaaS. They realize to do this they will also have to implement several new technologies and create several new functions: service operations and service management. Previously the organization thought they were service oriented because they had a service desk in IT to provide support.

Which key area(s) of investment is required for successful transition to IaaS?

- A. ITIL-based, standardized service templates
- B. Service level agreements with the lines of business
- C. An expanded help desk that includes more comprehensive reporting
- D. Dynamic capacity planning and centralized management

Answer: D

QUESTION 24

A software manufacturer is planning to convert their VDC to IaaS. As part of the transformation to IaaS the company realizes they have to make several organizational changes.

Which is the most likely starting point for their organizational transformation?

- A. Cross train IT operations and delivery personnel
- B. Create new service based roles in the lines of business

- C. Align GRC and Trust requirements
- D. Obtain executive and organizational buy-in

Answer: D

QUESTION 25

A company has invested in virtualization for all their non-mission critical applications and many mission critical applications. The company now wants to convert their virtualized silos that are still owned by each line-of business into a true VDC.

What is an important business outcome from this?

- A. Reporting for management and chargeback
- B. Workload right-sourcing
- C. Dramatic reduction in energy consumption
- D. Reduction in workforce

Answer: A

QUESTION 26

What is IT's approach to addressing performance issues during the IT-as-a-Service phase of the Cloud Maturity Model?

- A. Selective
- B. Investigative
- C. Proactive
- D. Reactive

Answer: C

QUESTION 27

A company has finished the design for their VDC. They realize that they should also include a few design considerations to prepare them for cloud.

What is a key business reason for the company to build a cloud-based service?

- A. Speed and agility
- B. Cost savings
- C. Multi-tenancy
- D. Chargeback

Answer: A

QUESTION 28

An organization seeks to solve a business problem by licensing software from a supplier. The supplier contract stipulates that the software will only be supported if it runs on server platforms also provided by that supplier.

What is this an example of?

- A. A virtual appliance
- B. A legacy application

- C. Enterprise Application Integration
- D. Vendor lock-in

Answer: D

QUESTION 29

An application is used by nearly all the employees in an organization to place and track orders, provide customer support, maintain and report on financials, and track product defects. The application was written by the organization's IT Department 10 years ago. The IT staff actively maintains it and adds features on a regular basis. What is this an example of?

- A. Vendor lock-in
- B. A legacy application
- C. An enterprise application
- D. Service-oriented architecture

Answer: C

QUESTION 30

An application is designed with reusable modules that can be called by other applications as needed. What is this an example of?

- A. EAI via Mesh
- B. EAI
- C. SOA
- D. ESB

Answer: C

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