

DES-2T13^{Q&As}

Specialist - Cloud Architect - Cloud Infrastructure Exam

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QUESTION 1

What is the minimum number of nodes supported for a HCI deployment with RAID 5 erasure coding?

- A. 3
- B. 4
- C. 5
- D. 6

Correct Answer: B

Reference https://www.google.com/url?sa=t&drct=j&dq=andescr=s&source=web&cd=2&ved=2ahUKEwjv_fLztsjgAhWwcQBHeiqAasQFjABegQIBxAF&url=https%3A%2F%2Fstoragehub.vmware.com%2Fexport_to_pdf%2Fvmware-vsan-6-7technical-overview&usq=AOvVaw1T1GyqMBWIOaOX4Z1xU0sr

QUESTION 2

You are designing a cloud backup solution. Consider the following requirements when sizing the backup target: Total amount of data to be backed up = 2 TB (2000 GB) Full backup once a week Retention period for full backups = 2 months Daily incremental backups (assuming an average 10% change in data) Retention period for incremental backups = 1 month No Compression or deduplication Number of backup copies = 1 What is the total capacity, in GB, required for the backup target to accommodate the backups?

- A. 13, 200
- B. 16, 000
- C. 21, 200
- D. 26, 400

Correct Answer: C

QUESTION 3

As a cloud architect you are working with an organization to choose between a DIY or packaged PaaS Solution.

What is a selection criterion that applies to DIY?

- A. Has a higher cost of licensing and support
- B. Is a more stable platform
- C. Has built-in governance policies
- D. Supports automated configuration

Correct Answer: B

QUESTION 4

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

*

In the ITaaS model, corporate IT offers a menu of SaaS, PaaS and IaaS options for business users via a centralized service catalog. Business users are free to pick and choose cloud services that corporate IT has vetted, or provide

themselves. These users can make informed decisions based on service pricing and SLAs, and can in many cases provision services on their own.

*

ITaaS can be implemented through new consumption models leveraging self-service catalogs offering both internal and external services; providing IT financial transparency for costs and pricing; offering consumerized IT ?such as bring your

own device (BYoD) ?to meet the needs of users. All of which simplify and encourage consumption of services.

*

A service-level agreement (SLA) is a part of a standardized service contract where a service is formally defined. Particular aspects of the service ?scope, quality, responsibilities ?are agreed between the service provider and the service

user.

References:

<http://leverhawk.com/is-itaas-really-a-new-concept-20130628321>

QUESTION 5

DRAG DROP

You are tasked with designing a new cloud infrastructure. Match each compute related requirement with its proper category.

Select and Place:

REQUIREMENT:

- Tenant and application separation must be maintained
- Sufficient CPU and memory to run the planned services
- Support current and future capacity
- Quality of components to deliver operational performance for a specified time

CATEGORY:

- CAPACITY
- AVAILABILITY
- SECURITY
- SCALABILITY

Correct Answer:

REQUIREMENT:

-
-
-
-

CATEGORY:

- Sufficient CPU and memory to run the planned services
- Quality of components to deliver operational performance for a specified time
- Tenant and application separation must be maintained
- Support current and future capacity

QUESTION 6

A cloud architect is evaluating an organization's need for encryption. Which type of encryption eliminates the requirement for key management?

- A. File system-based
- B. Virtual disk
- C. Embedded
- D. File-based

Correct Answer: B

The most convenient form of encryption is disk/volume encryption. If you have any data on an existing Virtual Machine (VM), you can easily add an encrypted disk or volume. Then, when you unmount the encrypted volume (or power off the

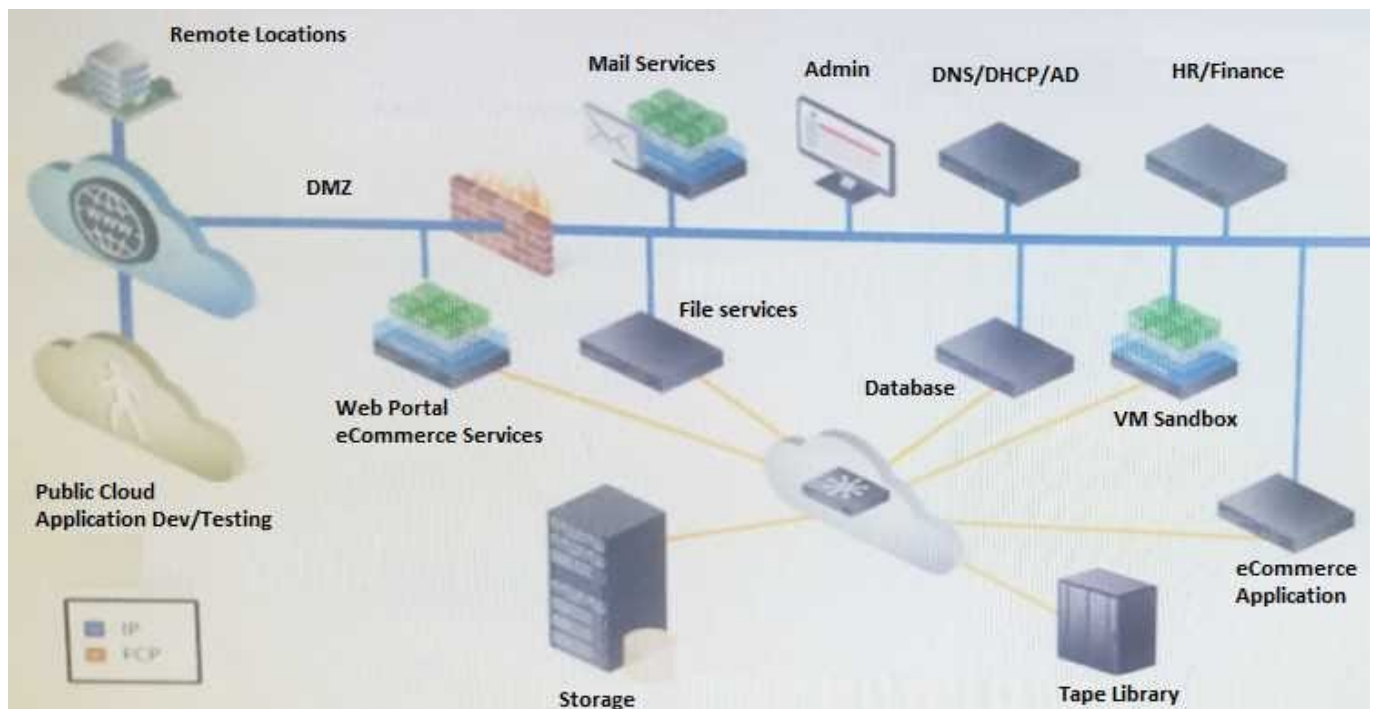
server), as long as you don't store the encryption key on the server, your data is safe.

The drawback with this type of encryption however is that if your server gets compromised somehow, there is a possibility that the attacker could capture your passphrase/key (and/or data) the next time you mount the disk image.

QUESTION 7

Case 1

Refer to the exhibit.



Your company recently negotiated several contracts with new customers to use its proprietary eCommerce system. As a result, the customer base has grown rapidly, which has introduced several challenges and requirements.

Business requirements:

Applications need to scale quickly

Metrics and reporting to anticipate business trends and efficient use of resources External customers are looking to license the eCommerce application Other considerations:

Applications need to be recorded for the public cloud Address security vulnerabilities for customer data in the cloud Refer to Case 1.

You are sizing the compute capacity of blade servers in a converged infrastructure solution with the following specifications:

Number of cores: 16

Processor speed: 3.5 GHz

Utilization percentage: 75%

What is the total GHz processing capability of one blade server?

- A. 18,6
- B. 20,2
- C. 42,0
- D. 56,7

Correct Answer: C

QUESTION 8

What is the benefit of Hot Spare disks?

- A. Enable efficient use of SSDs and NL SAS drive technologies
- B. Provide space-optimal data redundancy against multiple drive failures
- C. Handle any disk failure by distributing data over multiple drives
- D. Replace failed drives by taking the identity of the failed drive

Correct Answer: D

QUESTION 9

DRAG DROP

As part of the planning process, a cloud architect may use tools to gather data from customer systems. Match each tool with its associated description.

Select and Place:

TOOL:	DESCRIPTION:
Statspack	Dell EMC add-on tool that captures storage performance data
Unisphere Analyzer	Tool that captures processor, memory, and storage information for Linux systems
esxtop	Oracle embedded tool that captures resource consumption information
sar	Tool that captures information about processes running on VMkernel

Correct Answer:

TOOL:	DESCRIPTION:
	Unisphere Analyzer
	sar
	Statspack
	esxtop

QUESTION 10

Which authentication and authorization feature is critical for service providers when supporting multi-tenancy?

- A. Integration with external authentication services
- B. Integration with external directory services
- C. Portal authentication services
- D. Single sign-on capability

Correct Answer: A

QUESTION 11

An organization wants to protect the cloud management platform (CMP) from loss due to a site disaster. To support this requirement, the completed cloud design deliverables include the processes and procedures for restoring CMP

functionality.

What other item should be included in the deliverables to support this requirement?

- A. Recovery validation and verification processes
- B. Data abstraction keys
- C. List of all consumer service IP addresses
- D. Document containing the data encryption keys

Correct Answer: A

QUESTION 12

Which type of storage is used to store data using a flat address space based on content?

- A. Block
- B. Object
- C. Cloud D. File

Correct Answer: B

Reference <https://whatis.techtarget.com/definition/object-storage-device-OSD>

QUESTION 13

Which cloud services are typically responsible for automatically scaling applications?

- A. Orchestration and monitoring
- B. Service catalog and orchestration
- C. Metering and automation
- D. Monitoring and metering

Correct Answer: C

QUESTION 14

An organization wants to provide its developers the ability to deploy VMs. These VMs have software and libraries installed that are used to develop applications. Each VM will be configured with the same IP address and will be able to download application code from a central server. What will be included in the design to support these requirements?

- A. VXLANs and an OS firewall
- B. VXLANs and virtual firewall appliances
- C. VLANs and virtual IDS appliances
- D. VSANs and virtual IDS appliances

Correct Answer: B

QUESTION 15

During an assessment for an organization's cloud design, a cloud architect discovers that developers will be creating applications for tenants. The applications will self-scale based on an internal trigger. The architect has included CMP components in the design that will support this requirement. What else should the cloud architect consider to meet this requirement?

- A. CMP account with elevated privileges exists that can be shared with developers
- B. Mechanisms exist for changing the type of consumer resources automatically
- C. Mechanisms exist for re-installing CMP components for scaling
- D. Sufficient consumer resources exist to support the application elasticity

Correct Answer: B

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