



# DES-2T13<sup>Q&As</sup>

Specialist - Cloud Architect - Cloud Infrastructure Exam

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**QUESTION 1**

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>

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**QUESTION 2**

What is a key attribute of cloud services?

- A. Manual provisioning
- B. Full pre-allocation
- C. Self-service
- D. Automatic content creation

Correct Answer: C

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**QUESTION 3**

A cloud design contains multiple hosts that are running a hypervisor. Each host has only two physical 10 Gb network adapters that are aggregated for bandwidth and failover. The physical switch ports for each host are configured as access

ports. Each host will support numerous virtual machines and network segments. These virtual machines will communicate with other virtual machines on the same network segments.

Why would overlay networks be required for this design?

- A. Support for more than two virtual switches
- B. Support for more than one virtual segment
- C. Support for more than two virtual machines
- D. Support for more than one distributed virtual switch

Correct Answer: B

An overlay network is a computer network that is built on top of another network. Nodes in the overlay network can be thought of as being connected by virtual or logical links, each of which corresponds to a path, perhaps through many



physical links, in the underlying network. Virtual overlay networks use tunneling protocols to extend isolated network segments between servers for multi-tenant data center networks.

References:

<http://searchsdn.techtarget.com/tip/Virtual-overlay-networks-Tunneling-protocols-enable-multi-tenancy>

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#### QUESTION 4

What is a key benefit to consumers of cloud services?

- A. Start with minimal capital expenditure
- B. Dedicated SAN access to applications
- C. Requires extensive IT skills
- D. No operational expenditure

Correct Answer: A

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#### QUESTION 5

##### SPECIAL INSTRUCTIONS REMINDER

The remaining questions are associated with two cases. Each case has an introductory, descriptive passage (case text) that describes background information and requirements for a specific cloud based design. And each case has a set of

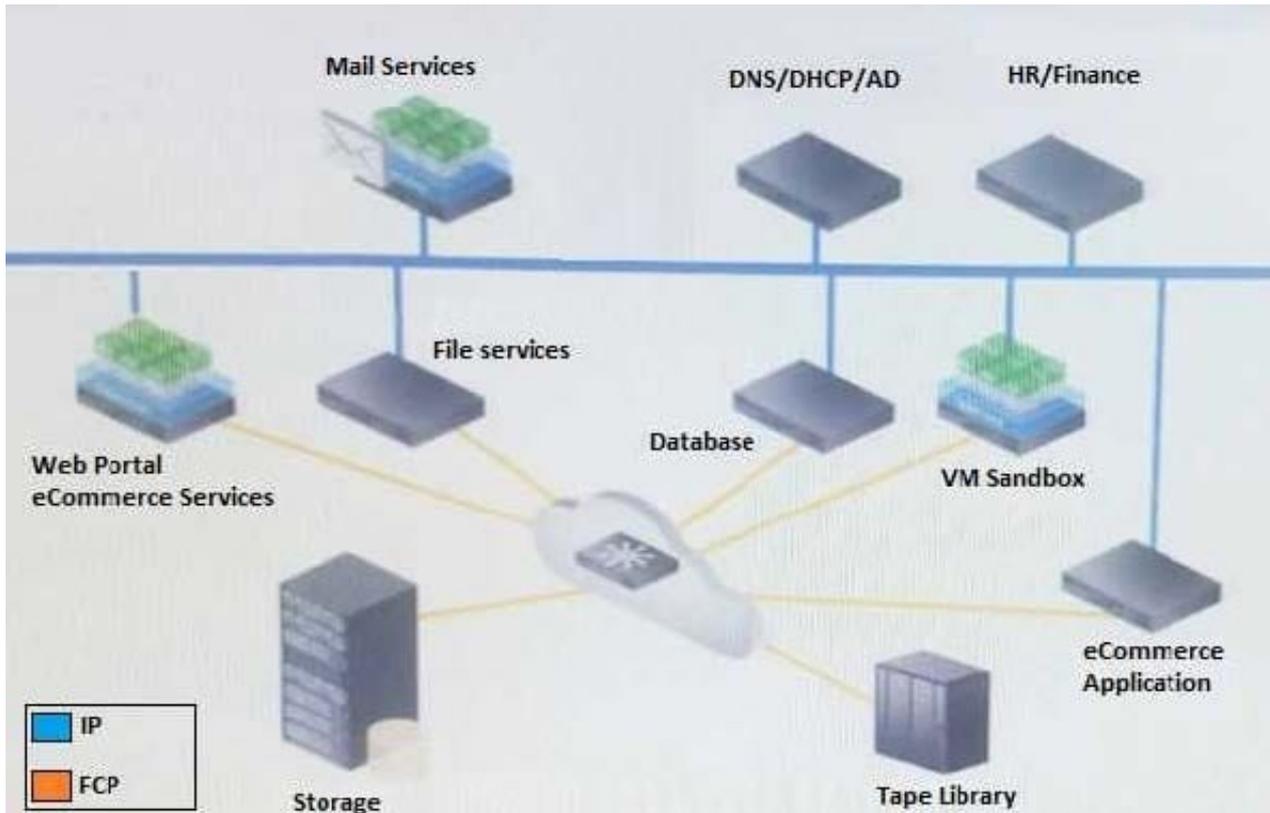
six related, randomized questions. You will need to read the case text in order to answer the related questions correctly.

Given that there are two cases with six scored questions each, the total number of case-based scored questions is 12.

When you display each questions you can easily review the related case text in a pop-up window by clicking on the "Case" icon (shown below)

Case 4

Refer to the exhibit.



Your company is currently using a traditional SAN storage network. The server infrastructure is partially virtualized. There is a public cloud in place that is used to test development and application migration to cloud.

Business requirements:

Consolidate the network, storage, and compute resources  
Simplify network management and storage provisioning  
Maintain application performance

Need to share resources to reduce cost and improve efficiency  
Other considerations:

Monitoring of protection SLAs

All transactions must be logged for auditing review

Users are validated using internal credentials

Refer to Case 4.

You are designing a private cloud to use VLANs to support compute-to-compute connectivity. The IT team has added a requirement to simplify the configuration management within the infrastructure. What is a limitation related to VLANs for this requirement?

- A. VLANs require separate infrastructure and management traffic trunks
- B. VLANs can only support up to 4094 virtual networks
- C. Adding a new VLAN requires configuration changes throughout the stack
- D. Converged infrastructure limits which NICs can separate network traffic types



Correct Answer: C

### QUESTION 6

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

### QUESTION 7

DRAG DROP

Match each platform requirement to its respective definition.

Select and Place:

CHARACTERISTIC:	REQUIREMENT:
Simplifies application development	Consolidated Technology Stack
Supports multiple programming languages and frameworks	Scalability
Focuses on rapid product delivery and QA	Microservice Support
Ensures optimal end-user service and utilization	Agile development and DevOps

Correct Answer:



**CHARACTERISTIC:**


**REQUIREMENT:**

- Supports multiple programming languages and frameworks
- Focuses on rapid product delivery and QA
- Ensures optimal end-user service and utilization
- Simplifies application development

**QUESTION 8**

A cloud architect is designing a packaged PaaS Solution for an organization. One of the primary concerns of the organization is application portability. What consideration focuses on portability?

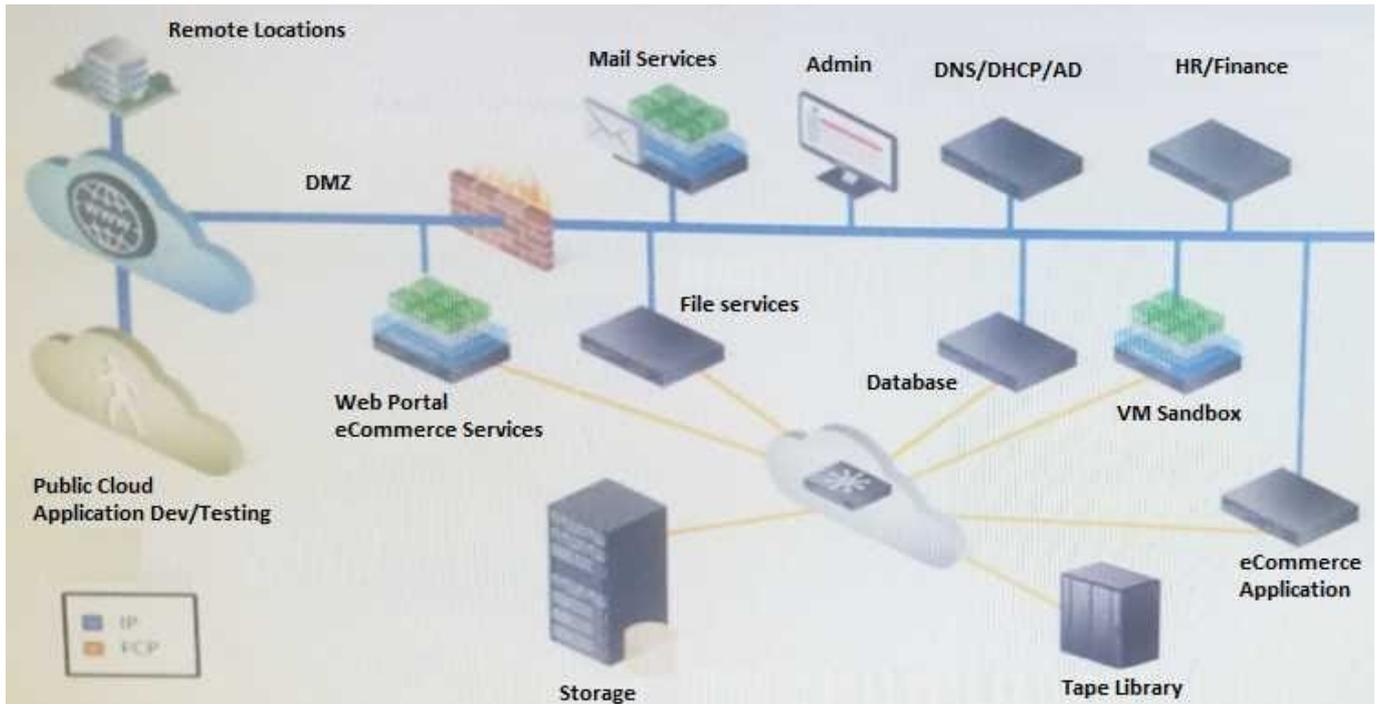
- A. A technology must be chosen that enables portable PaaS architectures
- B. Monitoring at the application level must capture and evaluate key metrics
- C. A subscription-by-time cost model must be chosen to manage costs
- D. A secure connector must be chosen to ensure secure API access to data

Correct Answer: D

**QUESTION 9**

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 designing a transformation from Platform 2.0 to cloud. You review the existing infrastructure and

business requirements. You must define the method to connect the on-premises network directly to the public cloud provider.

Which technology should you select?

- A. KMS
- B. IDPS
- C. MPLS
- D. IPSec VPN

Correct Answer: C



#### QUESTION 10

A company has the following requirements: Modular building blocks Scalability In-house management solution No physical SAN What type of infrastructure would meet these requirements?

- A. Cloud-in-a-Box
- B. Converged
- C. Traditional
- D. Hyper-Converged

Correct Answer: D

Reference <https://www.belden.com/blog/data-centers/data-center-scalability-why-it-matters-in-yourinfrastructure>

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#### QUESTION 11

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

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#### QUESTION 12

Which services are typically offered by cloud service providers?

- A. Bundled storage, applications, operating systems
- B. Operating environment, virtualization, applications
- C. Software, platform, infrastructure
- D. Compute, storage, connectivity

Correct Answer: C

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#### QUESTION 13

A company has the following requirements:



Infrastructure with a designated SAN

Run applications on pre-integrated hardware components Workloads are Platform 2.0 applications

Which solution would meet these requirements?

- A. Traditional Infrastructure
- B. Cloud-in-a-Box Infrastructure
- C. Converged Infrastructure
- D. Hyper-Converged Infrastructure

Correct Answer: D

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#### QUESTION 14

What can the consumer manage and control when subscribing to cloud Software as a Service (SaaS)?

- A. OS settings
- B. Network settings
- C. Application settings
- D. API module

Correct Answer: C

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#### QUESTION 15

What would you describe is a key characteristic of cloud platform as a Service (PaaS)?

- A. Direct control over the underlying infrastructure
- B. Cloud hosted integrated development environment
- C. Home-grown programming environment
- D. Cloud hosted, in house built tools

Correct Answer: B

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