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QUESTION 1

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>

QUESTION 2

You are creating a cloud infrastructure design for an organization. You learn that, for compliance reasons, the organization needs to maintain a separate set of infrastructures for certain deployed services. Which part of the design will be impacted by this requirement?

- A. Number of compute pools
- B. Number of service catalogs
- C. Over-commitment ratio
- D. Service catalog sizing

Correct Answer: B

QUESTION 3

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 4

As a cloud architect, you are designing a CI solution to ensure that you isolate specific workloads for security. What should you design for?

- A. High Availability
- B. Fault Tolerance
- C. Multi-tenancy
- D. Redundancy

Correct Answer: B

QUESTION 5

When designing for large addressing space in HCI nodes, what operation(s) negatively impacts cost of performance?

- A. First write
- B. Page-in and page-out
- C. Random write
- D. Sequential read

Correct Answer: C

QUESTION 6

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 7

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. External users connect with IPsec VPN Place AD controllers in the private cloud only
- B. Configure perimeter firewalls to allow AD traffic Place AD controllers in the private and public clouds
- C. Connect the two clouds through IPsec VPN Place AD controllers in the private cloud only
- D. Connect the two clouds through IPsec VPN Place AD controllers in the private and public clouds

Correct Answer: A

QUESTION 8

Which design consideration applies to object storage?

- A. Multi-tenancy is supported through file and directory permissions
- B. It is best suited for high performance and low latency applications
- C. A RAID controller on the host computer handles redundancy
- D. A common authentication mechanism is accessible by all tenants

Correct Answer: B

QUESTION 9

Ian 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 10

A company plans to invest \$315,000 to cover hardware, software, and deployment expenses. They expect to save \$35,000 per month. They are using a decommissioning cost of \$35,000 for the old equipment. After how many months will the company reach the break-even point?

- A. 7
- B. 8
- C. 9
- D. 10

Correct Answer: B

QUESTION 11

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

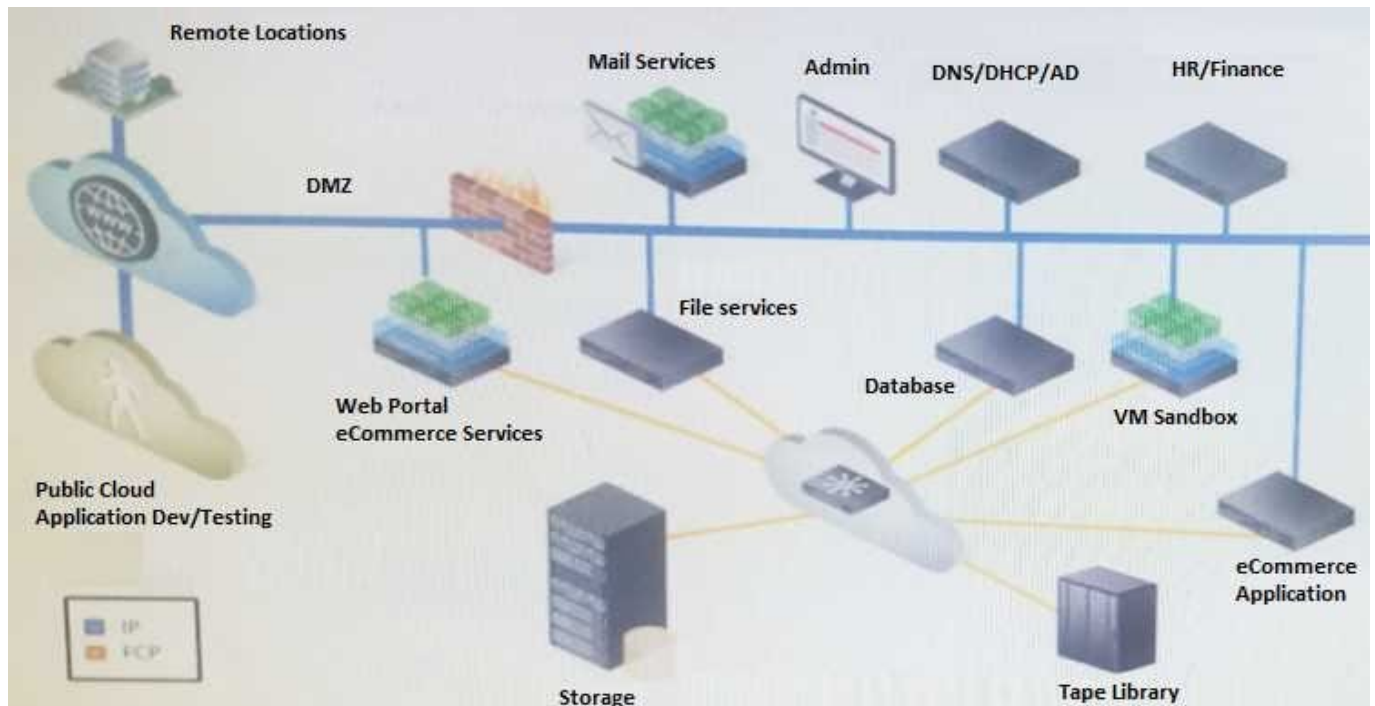
- A. Direct control over the underlying infrastructure
- B. Cloud hosted integrated development environment
- C. Home-grown programming environment
- D. Cloud hosted, in house built tools

Correct Answer: B

QUESTION 12

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 13

DRAG DROP

A cloud architect is delivering a knowledge transfer on how to script a service in the Service Catalog that restores a VM. What is the correct order of steps that should be demonstrated?

Select and Place:

Signal the Backup Server to restore the VM	STEP 1
Select an existing backup of the VM to restore	STEP 2
Power on the restored VM	STEP 3
Delete the VM using the hypervisor	STEP 4
Shut down the VM using the hypervisor	STEP 5

Correct Answer:

	Shut down the VM using the hypervisor
	Delete the VM using the hypervisor
	Select an existing backup of the VM to restore
	Signal the Backup Server to restore the VM
	Power on the restored VM

QUESTION 14

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>

QUESTION 15

In which cloud design lifecycle phase is business value analysis performed?

- A. Understand requirements
- B. Plan and design
- C. Implementation
- D. Validation

Correct Answer: A

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