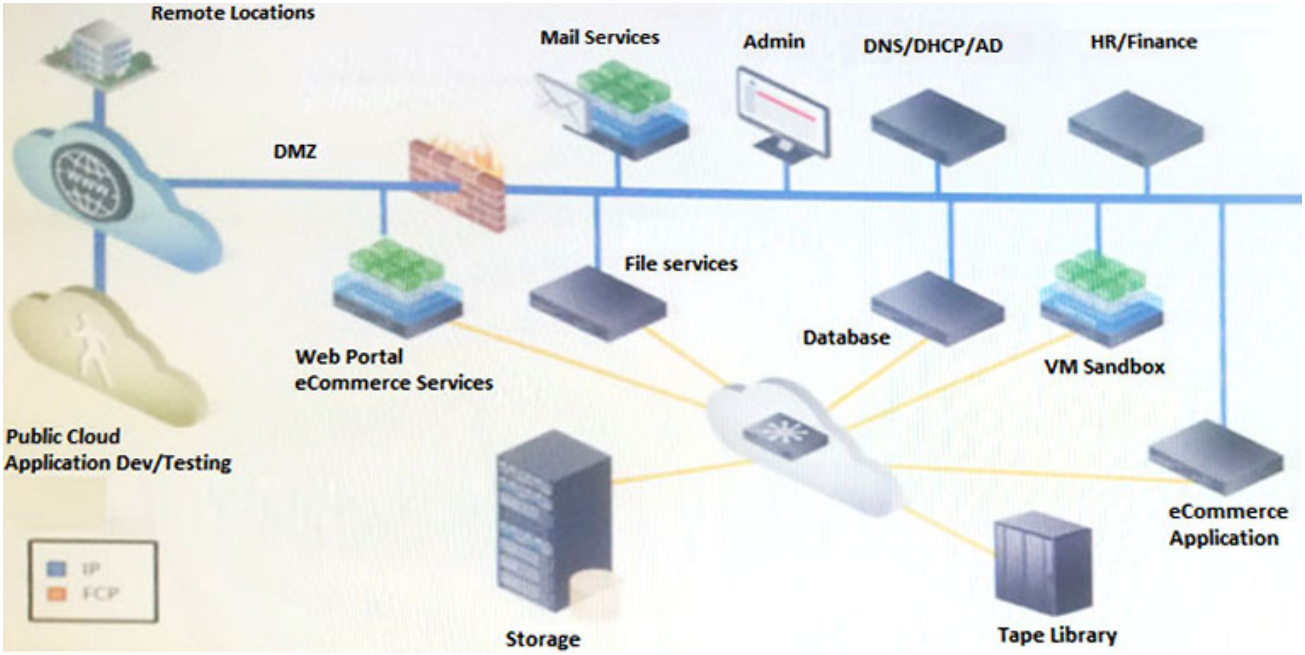
Exam : **D-CI-DS-23**

Title : Dell Cloud Infrastructure Design 2023

Version : DEMO

1.An organization wants to deploy cloud applications using block storage. The architect has included a HCI solution in the cloud design.
Which requirements must have led to including this solution in the design?
A. Acquire additional storage array; Combine storage and application processing using a spine/leaf topology
B. No additional storage arrays to be acquired; Separate storage processing from application processing
C. No additional storage arrays to be acquired; Combine storage and application processing on each node
D. Acquire additional storage array; Combine storage and application processing using a full mesh topology
Answer: C

2.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 onpremises network directly to the public cloud provider.
Which technology should you select?

A. KMS
B. IDPS
C. MPLS
D. IPSec VPN
Answer: D

3.A cloud architect is designing a hybrid cloud for an organization. A requirement for this environment is that the private cloud user credential be trusted by both cloud provisioning APIs.
Which type of authentication will meet this requirement?
A. Multi-factor
B. Federated
C. Private-key
D. Shared-key
Answer: B

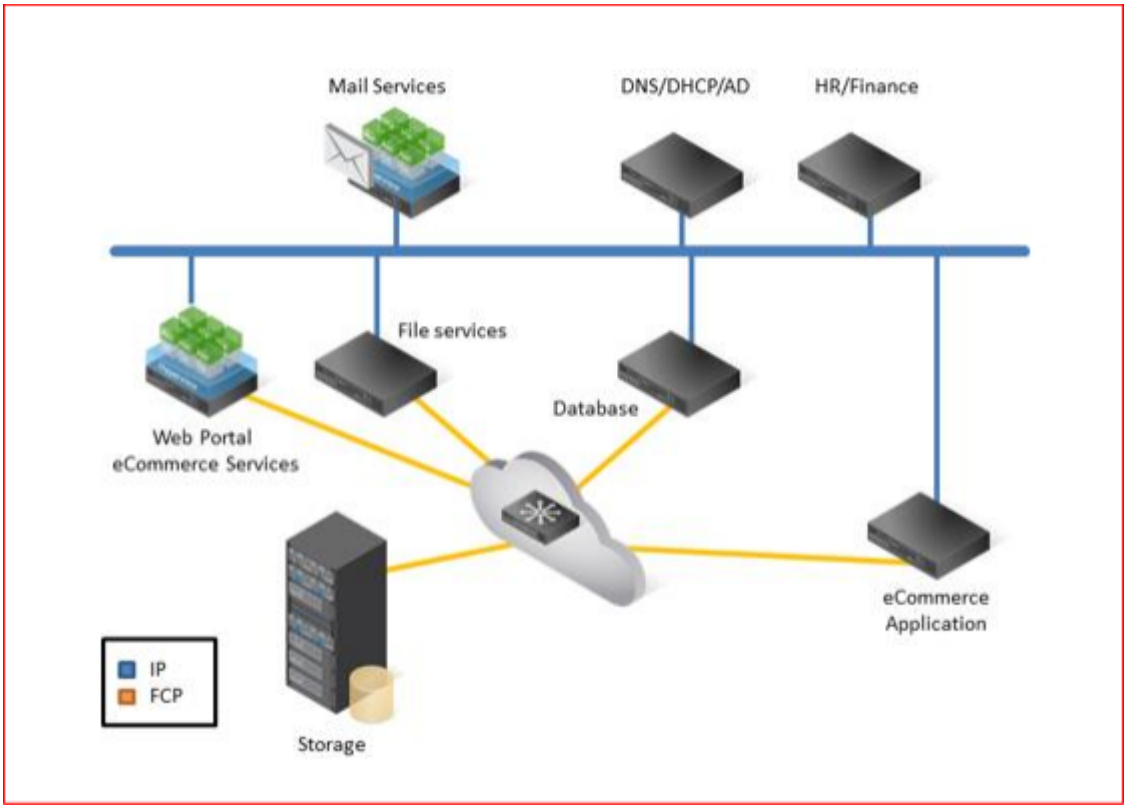
4.What should be used when sizing memory for nodes of a HCI deployment?
A. Host memory consumption
B. VM memory consumption
C. vCPU consumption
D. Total core count
Answer: B

5.You are designing a CI solution. You need to ensure maximum CPU utilization.
Which metric will tell you if you have met this goal?
A. Total IOPS
B. Percent idle time
C. I/O wait time
D. Average disk queue length
Answer: B

6.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
Answer: B

7.An organization wants to deploy a CMP solution in a private cloud.
What requirements influence the sizing of the underlying cloud management infrastructure?
A. Size of the service portal and catalog
B. CMP version and functions it provides
C. Type of services and cost of each service
D. High availability and performance
Answer: D

8.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
- A disaster recovery plan to meet RTO / RPO targets
Other considerations:
- All data must be secured at rest and in-flight
- Include an app development platform
Refer to Case 6.
You are sizing the compute capacity in a hyper-converged infrastructure solution. Each node has 55 TB of storage capacity. You have calculated the total cloud storage requirement to be 700 TB.
What is the minimum number of nodes required?
A. 8
B. 9
C. 15
D. 18
Answer: B

9.An organization wants to have showback capability in their private cloud.

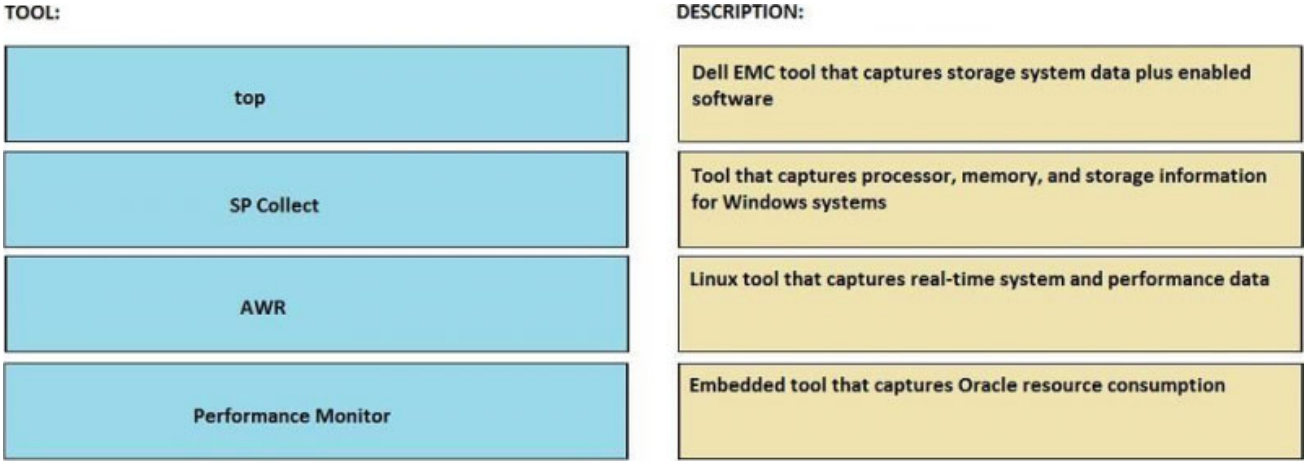
Which cloud management platform component should be included in the cloud design to support this requirement?
A. SSO
B. Service catalog
C. Metering application
D. Monitoring application
Answer: C

10.A cloud architect is designing a hybrid cloud for an organization. A requirement for this environment is for federated access to both cloud provisioning APIs.
What must be configured between both cloud providers' authentication mechanisms?
A. Shared super-user account
B. Trust relationship
C. Identical accounts
D. IPsec VPN
Answer: B

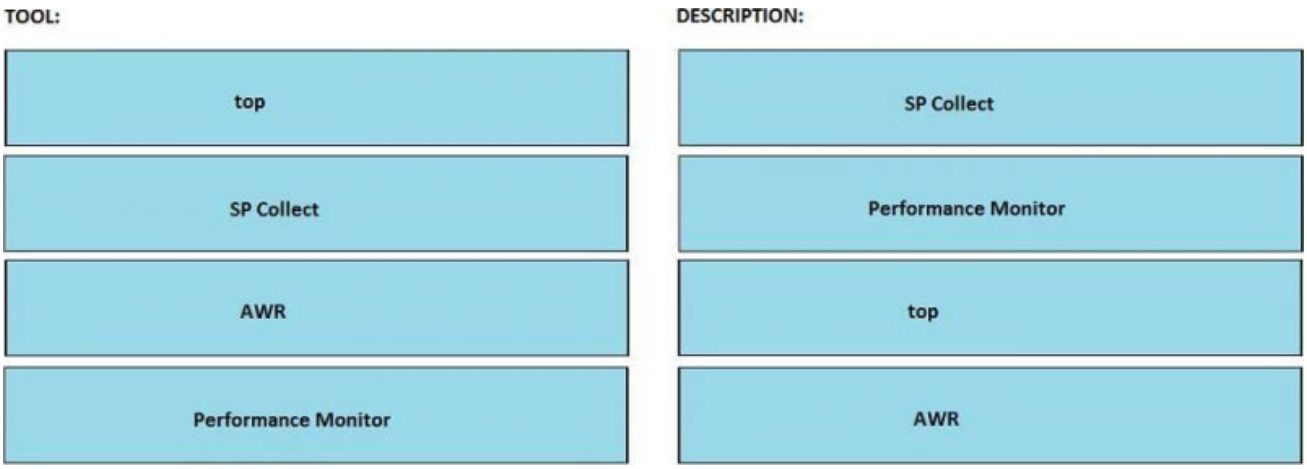
11.When considering a packaged PaaS solution, what is a potential advantage?
A. Greater control over infrastructure management
B. Lower cost of ownership
C. Longer time to market for applications
D. Reduced reliance on third-party vendors
Answer: B

12.What is a primary driver for organizations to adopt cloud solutions in the context of digital business imperatives?
A. Reducing compliance requirements
B. Simplifying on-premises infrastructure
C. Accelerating innovation and agility
D. Increasing hardware procurement costs
Answer: C

13.Match each tool with its associated description.



Answer:



14.A cloud architect discovers that an organization wants to deploy 500 consumer applications initially and grow to over 2000 consumer applications in three years. These applications will use block storage only.
How does the information impact the cloud management platform infrastructure sizing?
A. Influences proxy server data storage requirements
B. Influences CDN data storage requirements
C. Influences federation server data storage requirements
D. Influences monitoring server storage requirements
Answer: D

15.Match each term with its associated definition.
1. Identifies and tags blocks modified since last backup
2. Streams data to the backup device through a backup server
3. Provides the ability to restore data and VMs to any previous point in time
4. Uses hypervisor to create a VM snapshot
A) Agent-based backup
B) Image-based backup
C) Changed Block Tracking
D) Continuous Data Protection
A. 1-B, 2-A, 3-C, 4-D
B. 1-B, 2-C, 3-D, 4-A
C. 1-A, 2-D, 3-C, 4-B
D. 1-C, 2-A, 3-D, 4-B
Answer: D

16.You are designing the CMP structure. Where should you define the pods?
A. Fault domain
B. Private cloud VM
C. Availability zone
D. Public cloud VM
Answer: C