

# Specialist - Technology Architect, Midrange Storage Solutions Exam

1. How many Dell EMC SC9000 slots, per controller, are available for PCIe cards?

A. 3 full height and 4 half-height card slots

B. 4 full height (one reserved for write cache) and 3 half-height card slots

C. 3 full height and 3 half-height card slots

D. 3 full height (one reserved for write cache) and 3 half-height card slots

**Answer(s): B**

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2. You are designing a Dell EMC Unity solution for a customer. The customer wants to store top secret government file and block data. This data needs to be protected even in the event of physical theft of the Unity disks.

A. IP Multi-tenancy

B. LACP

C. D@RE

D. Host I/O Limits

**Answer(s): C**

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3. What can be the result of having too few drives in Tier 3 of a Dell EMC SC Series solution?

A. Cache will be automatically disabled

B. Back-end cross-connect may become saturated

C. DSM Automated Reports may not update

D. Poor Data Progression performance

**Answer(s): D**

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4. A customer has a Dell EMC Unity 550F with a single pool consisting of 10 drives configured as a RAID 5 (4+1) configuration. What is the minimum amount of drives required to expand the pool?

A. 1

B. 6

C. 10

D. 5

**Answer(s): B**

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5. Which Dell EMC Unity feature is beneficial for data protection designs but has a negative impact on performance designs?

A. Data at Rest Encryption

B. Unity Compression for File

C. Unity Compression for Block

D. Synchronous remote replication

**Answer(s): D**

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6. When designing a Dell EMC Unity 550F, what is the maximum number of enclosures and drive slots per bus?

A. 15 enclosures and 1000 drive slots

B. 10 enclosures and 500 drive slots

C. 10 enclosures and 250 drive slots

D. 15 enclosures and 275 drive slots

**Answer(s): B**

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7. A customer has a Dell EMC Unity 500 at their headquarters location. They want to deploy a UnityVSA in a remote/branch office environment to run an instance of a mission-critical financial application. In addition, they want to ensure that headquarters and the branch offices share the same information by using asynchronous replication. Finally, the customer wants to add 10 TB of capacity in the next 6 months.

A. 10 TB to 50 TB

B. 4 TB to 10 TB

C. 10 TB to 25 TB

D. 25 TB to 50 TB

**Answer(s): C**

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8. You are designing a solution for a customer who is sensitive to capacity needs. In addition, the environment consists of large read request I/O characteristics. Which Dell EMC midrange storage solution will meet the customer's requirements?

A. Unity Hybrid: Striping RAID, Dedicated Pool, and Flash 2 drives on Tier 1SC Series: Data Progression and write-intensive SSDs on Tier 1

B. Unity Hybrid: Parity RAID, FAST VP, and Flash 2 drives on Tier 1SC Series: Data Progression and read-intensive SSDs on Tier 1

C. Unity Hybrid: Striping RAID, All-Flash Pool, and FAST CacheSC Series: FastTrack and read-intensive SSDs on Tier 1

D. Unity Hybrid: Parity RAID, All-Flash Pool, and FAST CacheSC Series: FastTrack and read-intensive SSDs on Tier 1

**Answer(s): C**

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**9.** Which Dell EMC Unity design consideration must be accounted for if the Native SANCopy Import feature is to be used?

A. Failover mode 4 needs to be enabled for all Unity LUNs

B. A Fibre Channel port from each Storage Processor is required

C. Hot access of data will require PowerPath Multipathing software

D. Capacity must be allocated for SANCopy Reserved LUN Pool LUNs

**Answer(s): D**

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**10.** What is a capability of the Dell EMC Unity D@RE feature?

A. Encrypts the data in read requests delivered back to the host

B. Uses the hardware SAS controller to encrypt data as it is written to the disks

C. Uses self-encrypting drives to encrypt data as it is written to the disks

D. Encrypts data written to the disks in a post-processing manner

**Answer(s): C**

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**11.** To maximize system performance on Dell EMC Unity systems, what is recommended?

A. Distribute host connections across as few front-end ports as possible

B. Use a 12-drive DPE with only Hybrid systems

C. Distribute Flash drives across back-end buses

D. Build storage pools with only a minimum number of drives

**Answer(s): C**

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**12.** A customer wants to integrate a Dell EMC Unity Hybrid system with a Linux OS host running on Oracle application. The Oracle application requires that the database files are deployed on a large amount of spindles to meet a low I/O latency requirement. In addition, the customer wants to use the available Unity drives and deploy the database on 10K RPM SAS or NL-SAS, reducing the number of required spindles.

A. FAST Cache

B. FAST VP

C. Traditional Pools

D. Dynamic Pools

**Answer(s): D**

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**13.** Which technology is the Dell EMC Unity File Import feature architecture built upon?

A. Redirect on Write

B. SANCopy Push

C. Inband Migration Tool

D. Transparent Data Transfer

**Answer(s): C**

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**14.** Which Dell EMC Unity and SC Series features provide post-processing for placing data on appropriate storage tiers?

A. Unity: FAST VPSC Series: Data Progression

B. Unity: Synchronous ReplicationSC Series: Live Volume

C. Unity: Compression for BlockSC Series: Deduplication and Compression

D. Unity: Host I/O LimitsSC Series: Volume QoS

**Answer(s): A**

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**15.** A system administrator needs to migrate data from a PS Series Group with version 8 firmware to a new Dell EMC SC Series array with SCOS version 7. Both systems are currently managed from the same Dell Storage Manager 2016 R1.

A. Upgrade the PS Group firmware to version 9Configure HIT on the PS GroupConfigure Asynchronous Replication between the PS Group and SC array

B. Upgrade the PS Group firmware to version 9Configure iSCSI connectivity between the PS Group and SC arrayConfigure Asynchronous Replication between the PS Group and SC array

C. Configure iSCSI connectivity between the PS Group and SC arrayConfigure Synchronous Replication between the PS Group and SC arrayUpgrade the PS Group firmware to version 9

D. Upgrade the PS Group firmware to version 9  
Configure iSCSI connectivity between the PS Group and SC array  
Configure Cascade mode between the PS Group and SC array

**Answer(s): A**

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**16.** What is a benefit of using single-tier Flash with Dell EMC SC Series?

A. Snapshot data is sent to RAID 10 write-intensive SSDs to optimize capacity

B. Support for write-intensive and read-intensive SSDs in the same tier

C. RAID 5/RAID 6 is converted to RAID 10 for increased efficiency

D. Writes are sent to RAID 10 write-intensive SSDs for better performance

**Answer(s): B**

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**17.** A Dell EMC SC7020 contains the following drives:

A. Tier 2 and Tier 3 only

B. Tier 1 only

C. Tier 1, Tier 2, and Tier 3

D. Tier 1 and Tier 3 only

**Answer(s): A**

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**18.** How does the Dell EMC SCv2000 differ from the other SC Series offerings regarding Data Progression?

A. Storage profiles must be created for each volume upon creation

B. RAID tiering is the only functionality of the SCv2000

C. Data Progression is not automated in the system

D. No storage profiles are available in the SCv2000

**Answer(s): C**

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**19.** Based on Dell EMC SC Series architecture and sizing best practices, how should the total amount of IOPS be distributed on a 2-tier solution?

A. Tier 1: 100% IOPS Tier 3: 20% IOPS

B. Tier 1: 80% IOPS Tier 3: 20% IOPS

C. Tier 1: 100% IOPS Tier 2: 40% IOPS

D. Tier 1: 50% IOPS Tier 2: 50% IOPS

**Answer(s): B**

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**20.** What is the guideline when sizing for IOPS on a Dell EMC SC Series solution with two tiers?

A. Tier 1 = 20% of ADJUSTED IOPS Tier 3 = 100% of ADJUSTED IOPS

B. Tier 1 = 100% of ADJUSTED IOPS Tier 3 = 20% of ADJUSTED IOPS

C. Tier 2 = 95% of ADJUSTED IOPS Tier 3 = 95% of ADJUSTED IOPS

D. Tier 1 = 50% of ADJUSTED IOPS Tier 3 = 50% of ADJUSTED IOPS

**Answer(s): B**

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