

## DES-1D12<sup>Q&As</sup>

Specialist - Technology Architect Midrange Storage Solutions

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## QUESTION 1

At what granularity are blocks deduplicated on a Dell EMC PowerStore array?

- A. 4 KB
- B. 8 KB
- C. 32 KB
- D. 64 KB

Correct Answer: A

<https://www.delltechnologies.com/resources/en-us/asset/white-papers/products/storage/h18151-dell-emc-powerstore-data-efficiencies.pdf> Deduplication uses algorithms to analyze, perform pattern detection, and attempts to store only a single instance of data. In general deduplication can work at the block, bit-level, or file level. In PowerStore, deduplication works at the block level at 4 KB granularity.

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## QUESTION 2

What is the Dell EMC best practice for sizing and designing a Dell EMC SC Series solution?

- A. Front-end ports required for performance should always meet capacity needs
- B. Drive capacity should meet performance needs
- C. Size for performance first and capacity second
- D. Size for capacity; Data Progression should always meet performance needs

Correct Answer: C

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## QUESTION 3

Which QoS option is NOT supported by Dell EMC Unity XT?

- A. Attached Snapshot
- B. Individual or Group LUN
- C. VMFS Datastore
- D. iSCSI

Correct Answer: D

QoS – Rate limiting

Protect against “Noisy Neighbor”

- 
- 512 Limits
- 
- More granular control
- 
- Limit by IOPS, BW, or both
- 
- Apply to:
- 
- Individual LUNs
- 
- Group of LUNs
- 
- VMFS Datastores
- 
- Attached Snapshots
- 
- Can assign total limit to be shared among LUNs in Group
- 
- Can move LUN(s) to other QoS Policy

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#### QUESTION 4

What is the maximum number of snapshot rules that can be associated with a Dell PowerStore protection policy?

- A. 8
- B. 2
- C. 4
- D. 1

Correct Answer: C

<https://www.dell.com/support/manuals/en-us/powerstore-5000/pwrstr-protect-data/protection-policies?guid=guid-c8ba3b>

a4-6374-4285-9727-900343f64ee2andlang=en-us#:~:text=Each%20protection%20policy%20can%20only,up%20to%20four%20snapshot%20rules.

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## QUESTION 5

A customer wants to expand their Dell EMC Unity Hybrid system, which includes a pool of 64 drives in a RAID 5 (4+1) configuration. What is the minimum number of drives needed to expand the pool?

- A. 1
- B. 5
- C. 6
- D. 7

Correct Answer: C

DELL PDF document about dynamic pools: h16289-dell\_emc\_unity-dynamic\_pools.pdf Page 20-21. The smallest RAID 5 stripe width the system supports is a 4+1. The smallest dynamic pool created with the RAID 5 4+1 configuration is 6 drives. The minimum drive count includes the number of drives specified in the stripe width, plus the hot spare capacity. The hot spare capacity is selected by the user at pool creation, and can either be set to 1 or 2 drives for every 32 drives in the pool.

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