

# E20-526<sup>Q&As</sup>

XtremIO Solutions and Design Specialist Exam for Technology Architects

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### QUESTION 1

Which level of granularity does XtremIO deduplication run?

- A. Variable 8 kB
- B. Variable 32 kB
- C. Fixed 8 kB
- D. Fixed 32 kB

Correct Answer: C

EMC XtremIO(All-Flash) : SAN, inline deduplication, 8K fixed chunk size;

References: <https://www.linkedin.com/pulse/deduplication-fake-reality-mike-uzan>

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### QUESTION 2

Which operation is performed when an XtremIO Snapshot is created?

- A. Pointers to the ancestor metadata are created for the snapshot
- B. Space equal to the size of the ancestor is allocated to the snapshot
- C. A reserved space is created for new snapshot data
- D. A deduplication pass is immediately run against the snapshot

Correct Answer: A

When a snap is created, the following steps occur: 1) Two empty containers are created in-memory 2) Snapshot SCSI personality is pointing to the new snapshot sub-node 3) The SCSI personality which the host is using, is linked to the second node in the internal data tree

References: EMC RECOVERPOINT REPLICATION OF XTREMIO, Understanding the essentials of RecoverPoint Snap-based replication for XtremIO, page 8 <https://www.emc.com/collateral/white-papers/h14296-wp-recoverpoint-replication-of-xtremio.pdf>

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### QUESTION 3

Who developed the framework for testing All-Flash arrays that is used in the XtremIO PoC?

- A. EMC
- B. Seagate
- C. Micron
- D. IDC

Correct Answer: D

IDC outlines a criteria some criteria for selecting a testing tool:

\*

Generate workloads

\*

Capture results for analysis: Throughput IOPS Latency

Etc.

References: [http://info.xtremio.com/rs/xtremio/images/IDC\\_Flash\\_Array\\_Test\\_Guide.pdf](http://info.xtremio.com/rs/xtremio/images/IDC_Flash_Array_Test_Guide.pdf)

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#### QUESTION 4

Which SCSI instructions are used to build a bitmap of the changes between the first snapshot and subsequent snapshots when RecoverPoint is used with XtremIO?

- A. SCSI Delta
- B. SCSI Transfer
- C. SCSI DIFF
- D. SCSI Update

Correct Answer: C

DIFF protocol - A vendor specific SCSI command which RecoverPoint uses to query XtremIO with in order to obtain a bitmap of changes between two snapshot sets.

RecoverPoint uses the output of DIFF command to read the actual data and transfer it to the target side.

References: EMC RECOVERPOINT REPLICATION OF XTREMIO, Understanding the essentials of RecoverPoint Snap-based replication for XtremIO, page 9 <https://www.emc.com/collateral/white-papers/h14296-wp-recoverpoint-replication-of-xtremio.pdf>

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#### QUESTION 5

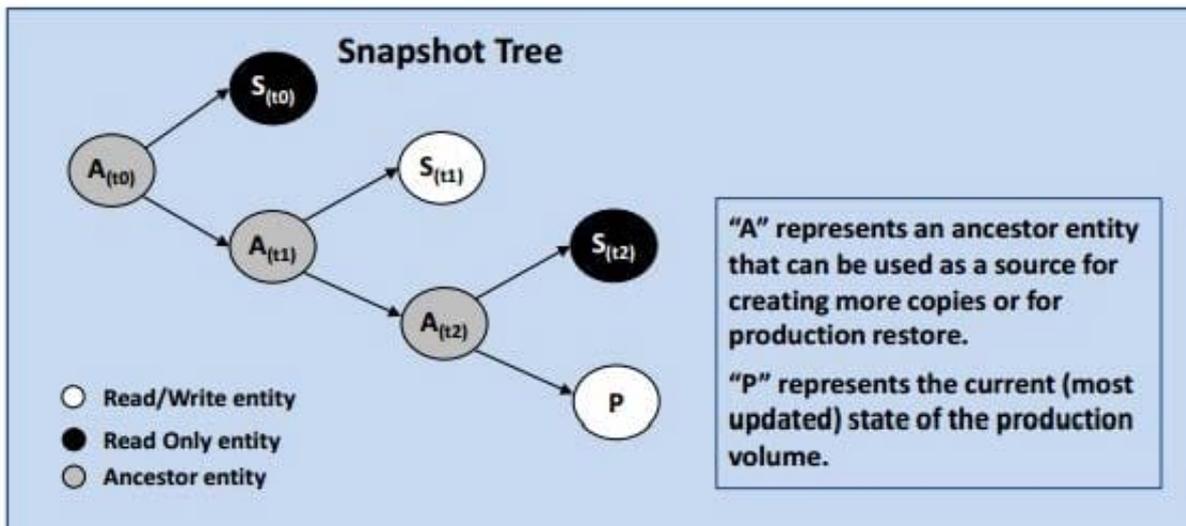
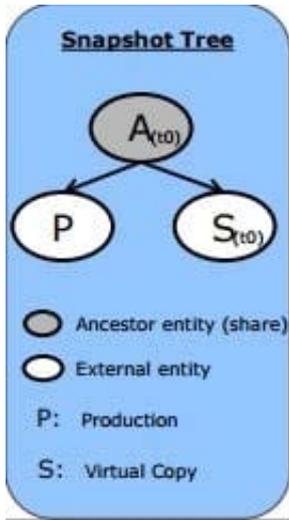
Which actions are initiated when a snapshot is created on an XtremIO array?

- A. Parent object becomes read only and two auxiliary volumes are created
- B. Parent object remains writeable and one auxiliary volume is created
- C. Parent object remains writeable and two auxiliary volumes are created

D. Parent object becomes read only and one auxiliary volume is created

Correct Answer: A

When a copy is created, the volume's existing metadata becomes an "ancestor" entity (parent object) that is shared between the production volume and the copy. New empty containers are created for subsequent changes to both the production volume and the virtual copy volume. Therefore, the act of creating a copy is instantaneous and involves no data or metadata copies.



References: <https://www.emc.com/collateral/white-paper/h13035-wp-introduction-to-xtremiosnapshots.pdf>, pages 18

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