

# C9020-562<sup>Q&As</sup>

IBM Storwize Family Technical Solutions V4

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### QUESTION 1

A customer is looking to enhance its existing environment with the addition of an IBM Storwize V7000. The customer currently has an EMC VNX and wants to better utilize this storage.

Which two IBM Storwize features must be licensed to address the customer's needs? (Choose two.)

- A. Thin provisioning
- B. Tiered storage optimizer
- C. Replication
- D. Real-time Compression
- E. External virtualization

Correct Answer: AB

A: Thin Provisioning (Oversubscribing)

Thin LUNs are supported. Care must be taken for the LUNs not to become over allocated or SVC will take the MDisk and its MDiskgroup offline, until corrected.

B: EMC VNX LUN configuration

The storage is provisioned from the VNX as LUNs, that appear as managed disks (Mdisks) on the SVC, which can use them to create storage pools (MDiskgroups) to provision SVC volumes (VDisks) for use by hosts or for use with tiering.

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### QUESTION 2

A customer is deploying an IBM Storwize V7000 and wants to grow the system to 32 PB of addressable space.

Which extent size is needed to meet this requirement?

- A. 8192 MB
- B. 4096 MB
- C. 2048 MB
- D. 1024 MB

Correct Answer: A

Extent size (MB)	Maximum non-thin provisioned volume capacity in GB	Maximum thin provisioned volume capacity in GB	Maximum MDisk capacity in GB	Total storage capacity manageable per system
4096	262,144 (256 TB)	262,144	524,288 (512 TB)	16 PB
8192	262,144 (256 TB)	262,144	1,048,576 (1024 TB)	32 PB

References: IBM System Storage SAN Volume Controller and Storwize V7000, Best Practices and Performance Guidelines, Page 289 <http://www.redbooks.ibm.com/redbooks/pdfs/sg247521.pdf>

**QUESTION 3**

How does the IBM Storwize native IP replication provide optimal utilization of the IP network?

- A. It communicates with external WAN Optimization devices to achieve maximum efficiency.
- B. It uses Real-time Compression of data prior to replication.
- C. It uses artificial intelligence and sends multiple parallel streams.
- D. It utilizes intelligent switches in the network to minimize latency.

Correct Answer: C

The native Internet Protocol (IP) replication feature enables replication between any SVC/Storwize family member running code version 7.2 or higher, using the built-in networking ports of the cluster nodes. Following a recent partnership with IBM, it uses SANslide technology developed by Bridgewater Limited of Christchurch, UK. They specialize in products that can bridge storage protocols and accelerate data transfer over long distances.

Adding this technology at each end of a wide area network (WAN) Transmission Control Protocol/Internet Protocol (TCP/IP) link significantly improves the usage of the link. It does this by applying patented Artificial Intelligence (AI) to hide latency normally associated with WANs.

The technology built into the SVC/Storwize code uses TCP/IP latency to its advantage. Rather than wait for the acknowledgment to come back, it sends more sets of packets across other virtual connections. The number of virtual connections is controlled by the AI engine.

This improves WAN connection use, which results in a data transfer rate approaching full line speed.

References: IBM SAN Volume Controller and Storwize Family Native IP Replication, page <http://www.redbooks.ibm.com/redpapers/pdfs/redp5103.pdf>

#### QUESTION 4

A company has added a second control enclosure to an IBM Storwize V7000 to provide more storage for several servers.

What must be done to the host systems before mapping volumes from the new I/O group?

- A. Ensure the hostzoning is in place for the new I/O group
- B. Double the queue depth on each volume
- C. Verify host mirroring is in place for the volumes
- D. Install additional HBAs for connectivity to the new I/O group

Correct Answer: A

The number of paths to a volume from a host to the nodes in the I/O Group that owns the volume must not exceed eight, even if eight is not the maximum number of paths supported by the multipath driver (SDD supports up to 32). To restrict the number of paths to a host volume, the fabrics must be zoned so that each host FC port is zoned to no more than two ports from each Storwize V7000 Gen2 node in the I/O Group that owns the volume.

References:

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#### QUESTION 5

A customer has an Oracle RAC environment that requires high availability and disaster recovery in one solution.

Which feature of IBM Spectrum Virtualize addresses these needs?

- A. FlashCopy
- B. HyperScale
- C. HyperSwap
- D. Volume Migration

Correct Answer: A

IBM Spectrum Protect Snapshot uses the FlashCopy or snapshot function of the storage solutions for database cloning. This method eliminates downtime and minimizes the impact on the production database.

After you share the FlashCopy repository, configuration and binary files, an Oracle RAC database clone can be created from every node of the Oracle RAC cluster. IBM Spectrum Protect Snapshot can operate on the clone from all RAC nodes, so that a clone created on one RAC node can be inquired, refreshed, or deleted from any other node within the RAC cluster.

References: [http://www.ibm.com/support/knowledgecenter/SSERFV\\_8.1.0/fcm.unx/c\\_fcmu\\_orc\\_cloning.html](http://www.ibm.com/support/knowledgecenter/SSERFV_8.1.0/fcm.unx/c_fcmu_orc_cloning.html)