

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

IBM Storwize Family Technical Solutions V4

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**QUESTION 1**

A local credit union is installing a new Power Linux Spectrum Protect server with container storage pools and needs more bulk storage. It has a business requirement for encryption at rest. Cost is a consideration.

Which solution meets the customer requirements?

- A. IBM Storwize V5030
- B. IBM Storwize V5010
- C. IBM Storwize V5020
- D. IBM Storwize V9000

Correct Answer: C

Storwize V5020 control enclosure models offer mid-level performance, scalability, and functionality with:

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Two 2-core, four-thread processors and up to 32 GB of cache

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Support for up to 392 drives per system with the attachment of Storwize V5000 expansion enclosures

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Encryption of data at rest stored within the Storwize V5000 system

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**QUESTION 2**

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 itsMDiskgroup 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 3

Which authentication protocol for remote authentication of users is supported by the IBM Storwize V7000 model 524?

- A. Lightweight Extensible Authentication Protocol (LEAP)
- B. Secure Socket Layer (SSL)
- C. Lightweight Directory Access Protocol (LDAP)
- D. Challenge Handshake Authentication Protocol (CHAP)

Correct Answer: C

You can use the command-line interface (CLI) to configure the Storwize V7000 to authenticate users against servers implementing the Lightweight Directory Access Protocol (LDAP), including IBM Tivoli Directory Server (ITDS) and Active Directory (AD).

References:[http://www.ibm.com/support/knowledgecenter/ST3FR7\\_6.4.1/com.ibm.storwize.v7000.641.doc/svc\\_remoteauthcliLDAP\\_08070948.html](http://www.ibm.com/support/knowledgecenter/ST3FR7_6.4.1/com.ibm.storwize.v7000.641.doc/svc_remoteauthcliLDAP_08070948.html)

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### QUESTION 4

A cloud solution is being planned using the IBM Storwize family to provide storage for multiple clients on IBM Power and Intel hosts.

Which solution provides the necessary storage for the primary site and a disaster recovery location at a data center 1500 kilometers away?

- A. Create a four node IBM Storwize V7000 cluster with one I/O Group at the primary data center and the other at the disaster recovery location. Use FlashCopy to copy the volumes from the primary I/O Group to the disaster recovery I/O Group.
- B. Create volumes on IBM Storwize V7000 storage at the primary data center and use Global Mirror to create copies on an IBM Storwize V7000 at the disaster recovery location.
- C. Create volume mirrors on IBM Storwize V7000 storage at the primary data center with virtualized external IBM Storwize V3700 storage at the disaster recovery location.
- D. Create volumes on IBM Storwize V7000 Storage at the primary data center and use Metro to create asynchronous copies on an IBM Storwize V5030 at the disaster recovery location.

Correct Answer: B

Metro Mirror and Global Mirror are technologies that enable you to keep a real-time copy of a disk at a remote site that contains another SVC Cluster or Storwize V7000 system.

Incorrect Answers

A: FlashCopy is a function that allows you to create a point-in-time copy of one of your SVC disks. This might be helpful when performing backups or application testing. These copies may be cascaded upon one another, read from, written to, and even reversed. These copies are able to conserve storage, if needed, by being space-efficient copies that only record items that have changed from the originals instead of full copies.

C: Volume Mirroring is a function designed to increase high availability of the storage infrastructure. It provides the ability to create up to two local copies of a volume.

References: IBM System Storage SAN Volume Controller and Storwize V7000 Replication Family Services, page 22  
<http://www.redbooks.ibm.com/redbooks/pdfs/sg247574.pdf>

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**QUESTION 5**

A NetApp customer has been concerned about the fragmentation of its system. The customer is considering moving to an IBM Storwize solution.

What does the IBM Storwize Family use as the foundational file system for file sharing?

- A. HDFS
- B. SMB
- C. GPFS
- D. NFS

Correct Answer: C

Shares and exports can be managed through the GUI or CLI by Storwize V7000 Unified administrative users that have a user role definition that is authorized to perform share and export management functions.

A share or export results from making a disk space accessible through the protocols specified during its creation. HTTP, SCP, FTP, CIFS and NFS shares and exports can be created, provided that the corresponding protocol is enabled for the system. Shares and exports can only be created for data that is stored in the GPFS file system of the Storwize V7000 Unified system. Non-GPFS file system content cannot be shared or exported.

References: [http://www.ibm.com/support/knowledgecenter/ST5Q4U/com.ibm.storwize.v7000.unified.143.doc/mng\\_exports\\_topic\\_welcome.html](http://www.ibm.com/support/knowledgecenter/ST5Q4U/com.ibm.storwize.v7000.unified.143.doc/mng_exports_topic_welcome.html)

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