

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

IBM Storwize Family Technical Solutions V4

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## QUESTION 1

An online shopping website stores large amounts of product data and orders on a multi-tier IBM Storwize storage solution. All data is stored in a pool including Nearline, Enterprise, and SSD storage. Depending on purchases, some products may place a higher demand on the storage.

How will Easy Tier assist this organization with its data performance?

- A. Promotion of data directly from Nearline to Flash storage
- B. Demotion of data from Nearline to Enterprise storage
- C. Demotion of data from Flash to Nearline storage
- D. Promotion of data from Enterprise to Flash storage

Correct Answer: D

Note: IBM Spectrum Virtualize includes IBM Easy Tier, a function that responds to the presence of drives in a storage pool that also contains hard disk drives (HDDs). The system automatically and nondisruptively moves frequently accessed data from HDD MDisks to flash storage MDisks, thus placing such data in a faster tier of storage.

The system supports these tiers:

\*

Flash tier

The flashtier exists when flash MDisks are in the pool. The flash MDisks provide greater performance than enterprise or nearline MDisks.

\*

Enterprise tier

The enterprise tier exists when enterprise-class MDisks are in the pool.

\*

Nearline tier

The nearline tier exists when nearline-class MDisks are used in the pool.

Note 2: The formal distinction between online, nearline, and offline storage is:

\*

Online storage is immediately available for I/O.

\*

Nearline storage is not immediately available, but can be made online quickly without human intervention.

\*

Offline storage is not immediately available, and requires some human intervention to become online.

References:[https://publib.boulder.ibm.com/infocenter/flexsys/information/index.jsp?topic=\\_Fcom.ibm.acc.4939.doc\\_Fsvc\\_easy\\_tier.html](https://publib.boulder.ibm.com/infocenter/flexsys/information/index.jsp?topic=_Fcom.ibm.acc.4939.doc_Fsvc_easy_tier.html)

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## QUESTION 2

A customer wants to encrypt some of the data implementing a clustered IBM Storwize V7000-524 solution, possibly utilizing an existing model 324 keep costs down.

How should the desired solution be implemented?

- A. IBM Storwize V7000-324s and IBM Storwize V7000-524s cannot be clustered together, so two IBM Storwize V7000-524s with encryption enabled on both should be implemented.
- B. Cluster the existing IBM Storwize V7000-324 with a new model 324 ensuring IBM Storwize version 7.4 is installed on both systems, as it is needed to enable encryption.
- C. Cluster the existing IBM Storwize V7000-324 with an IBM Storwize V7000-524, enabling encryption of the RAID arrays/MDisks on the Model 524 enclosures.
- D. Cluster the existing IBM Storwize V7000-324 with an IBM Storwize V7000-524, enabling encryption on all the enclosures for maximum protection.

Correct Answer: A

The Model 524 control enclosure supports only the attachment of Model 12F, 24F, and 92F expansion enclosures. Previous generation Storwize V7000 control enclosures (Models 112, 124, 312, and 324) do not support the attachment of Model 12F, 24F, and 92F expansion enclosures.

References:[http://www01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep\\_sm/3/760/ENUS2076-\\_h03/index.html&lang=en&request\\_locale=en](http://www01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep_sm/3/760/ENUS2076-_h03/index.html&lang=en&request_locale=en)

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## QUESTION 3

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 4

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 5

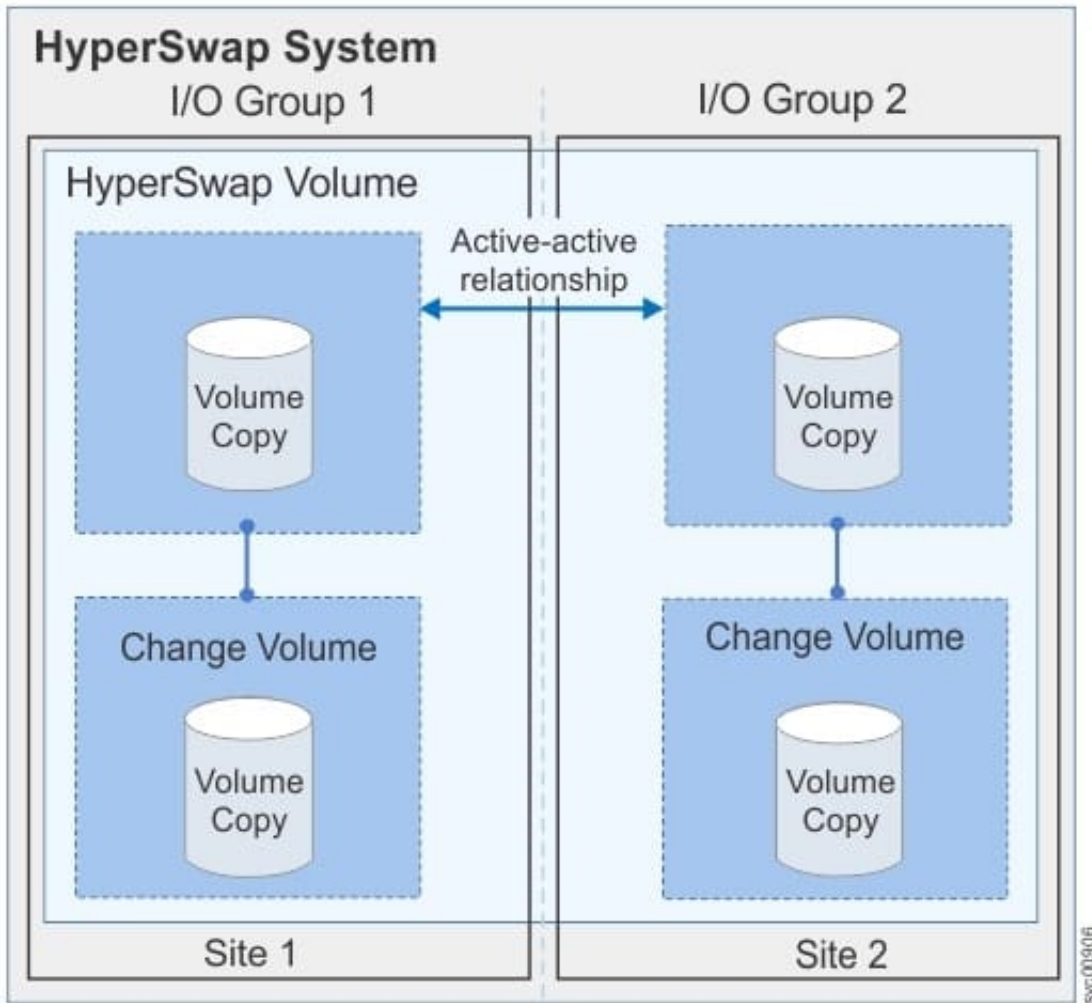
A customer is planning to implement a new IBM Storwize V5030 solution and is evaluating the requirements for implementing disaster recovery with HyperSwap.

Which HyperSwap configuration requirement needs to be part of installation?

- A. Both I/O groups and managed disks are at the same site.
- B. Configuration with standard topology with all controlenclosures are at the same site.
- C. Configure volume mirror relationship with a controller from each I/O group at different sites.
- D. Each I/O group and its managed disks are at different sites.

Correct Answer: D

HyperSwap volumes, where copies of a single volume are in different storage pools that are on different sites. The volume is cached in two I/O groups that are on different sites. These volumes can only be created on Storwize V5030 systems when the system topology is HyperSwap.



References:[http://www.ibm.com/support/knowledgecenter/STHGJJ\\_7.7.0/com.ibm.storwize.tb5.770.doc/tbrd4\\_tbrd4ovr.html](http://www.ibm.com/support/knowledgecenter/STHGJJ_7.7.0/com.ibm.storwize.tb5.770.doc/tbrd4_tbrd4ovr.html)

### QUESTION 6

What must be configured and installed to use VMware virtual volumes (vVols) with IBM Storwize solutions?

- A. IBM Spectrum Control Base Edition and the correct host type set on the Storwize
- B. IBM Spectrum Virtualize and a vCenter plug in on the Storwize
- C. IBM Spectrum Control Base Edition and child pools on the Storwize
- D. IBM Spectrum Control Standard Edition and a plug in on the Storwize

Correct Answer: A

Three core software components are needed for a successful implementation of VVols. The minimum code level required for each component is provided in the following list:

\*

IBM Spectrum Control Base Edition (SCB) version 2.2.1 (or higher)

\*

Compatible storage system running IBM Spectrum Virtualize version 7.6.0 (or higher)

\*

VMware vSphere 6.0 (or higher):

?VMware ESXi version 6.0

?VMware vCenter Server 6.0 or vCenter Server Appliance (vCSA) 6.0 (vSphere Web Client 6.0)

)

We use the term VVols-enabled host to describe a host that meets the following requirements:

\*

VMware ESXi (ESXi) version 6.0 or later installed.

\*

Registered with the storage system with host type set to VVol. Note that in the CLI, the VVol host type is referred to as adminlun. References: Configuring VMware Virtual Volumes for Systems Powered by IBM Spectrum Virtualize , page 6, page 11 <http://www.redbooks.ibm.com/redbooks/pdfs/sg248328.pdf>

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## QUESTION 7

A customer has acquired a new business and wants to bring its systems and storage under corporate systems. The company has an IBM SVC in the environment to manage all storage.

What must the customer do with the volumes from the new businesses storage to bring them under IBM Spectrum Virtualize management?

- A. Import the volumes using Volume Mirror
- B. Import the volumes using Managed mode
- C. Import the volumes in Image Mode
- D. Import the volumes as a storage pool

Correct Answer: C

Image mode volumes are used to migrate LUNs that were previously mapped directly to host servers over to the control of the IBM Spectrum Virtualize system.

Note: mkimagevolume Create a new image mode volume. This command can be used to import a volume, preserving existing data.

References:Implementing the IBM Storwize V7000 and IBM Spectrum Virtualize V7.8, page 215  
<http://www.redbooks.ibm.com/redpieces/pdfs/sg247938.pdf>

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### QUESTION 8

A customer is interested in replacing a NetApp E-series disk array with one that supports auto-tiering between NL-SAS, SAS, and SSD disk technologies.

Which advantage does the IBM Storwize V7000 model 524 have over the competition?

- A. The V7000 relocates data based on current usage.
- B. The V7000 predictively relocates data
- C. The V7000 uses SSDs for quorum disks.
- D. The V7000 relocates the DACstor metadata to SSDs.

Correct Answer: A

Flex System V7000 Storage Node includes IBM System Storage Easy Tier, a function that responds to the presence of flash drives in a storage pool that also contains hard disk drives (HDDs). The system automatically and nondisruptively moves frequently accessed data from HDD MDisks to SSD MDisks, thus placing such data in a faster tier of storage.

EasyTier eliminates manual intervention when assigning highly active data on volumes to faster responding storage. In this dynamically tiered environment, data movement is seamless to the host application regardless of the storage tier in which the data resides.

References: [https://publib.boulder.ibm.com/infocenter/flexsys/information/index.jsp?topic=\\_Fcom.ibm.acc.4939.doc\\_Fsvc\\_easy\\_tier.html](https://publib.boulder.ibm.com/infocenter/flexsys/information/index.jsp?topic=_Fcom.ibm.acc.4939.doc_Fsvc_easy_tier.html)

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### QUESTION 9

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)

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**QUESTION 10**

In addition to pre-sale, what is the other type of Technical and Delivery Assessment (TDA)?

- A. Post-sale
- B. Pre-install
- C. Pre-delivery
- D. Post-warranty

Correct Answer: B

TDA's can be performed pre-sale, pre-installation, or post-installation.

References: <http://joeherthvik.com/an-ibm-technical-delivery-assessment-primer/>

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