



C9020-562^{Q&As}

IBM Storwize Family Technical Solutions V4

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QUESTION 1

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>

QUESTION 2

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

QUESTION 3

Which product should be included as part of an IBM Storwize Family solution for a customer who desires to simplify and automate capacity management?

A. IBM Spectrum Control

B. Easy Tier



- C. IBM Spectrum Archive
- D. Tiered Storage Optimizer

Correct Answer: A

Spectrum Control provides analytics-driven storage management and efficient infrastructure management for virtualized, cloud, and software-defined storage to simplify and automate storage provisioning, capacity management, availability monitoring, and reporting.

IBM Spectrum Control communicates with Storwize V7000 storage systems through a native interface.

Use IBM Spectrum Control to monitor Storwize V7000 systems, including discovery, data collection (probes), performance monitoring, trending, storage optimization, and provisioning. IBM Spectrum Control reports and topology views also provide information about the tier, tier capacity, and tier free capacity for Storwize V7000.

QUESTION 4

Which component of the IBM Spectrum family helps a customer manage application-aware point-in-time copies on EMC, HDS, and the IBM Storwize family?

- A. IBM Spectrum Protect Snapshot
- B. IBM Copy Services Manager
- C. IBM Spectrum Control with External Virtualization
- D. IBM Spectrum Protect for SAN

Correct Answer: A

IBM Spectrum Protect Snapshot (formerly known as IBM Tivoli FlashCopy Manager) uses advanced snapshot capabilities of disk subsystems to create application, database, and VM-aware point-in-time snapshots.

References: IBM SpectrumFamily, IBM Spectrum Control Standard Edition, page 237 <http://www.redbooks.ibm.com/redbooks/pdfs/sg248321.pdf>

QUESTION 5

An IBM i customer decided to take advantage of the performance of flash-based storage and is implementing an IBM FlashSystem V9000. The customer plans to move all data to the V9000 with native IBM i attachment.

Which connection protocol is required for this environment?

- A.FC
- B. FTP
- C. 10 Gb FCoE
- D. InfiniBand

Correct Answer: A



IBM FlashSystem V9000 can be attached to IBM i in the following ways:

*

Native connection without using Virtual I/O Server (VIOS) Native connection with SAN switches can be done with these adapters: 4 Gb Fibre Channel (FC) adapters, feature number 5774 or 5276 8 Gb FC adapters, feature number 5735 or 5273 16 Gb FC adapters, feature number EN0A or EN0B Direct native connection without SAN switches can be done with these adapters: 4 Gb FC adapters in IBM i connected to 8 Gb adapters in IBM FlashSystem V9000 16 Gb adapters in IBM i connected to 16 Gb adapters in IBM FlashSystem V9000

*

Connection with VIOS in N_Port ID Virtualization (NPIV) mode There are rules for mapping server virtual FC adapters to the ports in VIOS when implementing IBM i in VIOS NPIV connection.

*

Connection with VIOS in virtual SCSI (VSCSI) mode

References: Introducing and Implementing IBM FlashSystem V9000, page 272 <http://www.redbooks.ibm.com/redpieces/pdfs/sg248273.pdf>

QUESTION 6

A customer is concerned that its volumes would not have access to the full system cache but wants to create pools to limit the amount of space that different departments use.

Which activity allows the customer to meet these requirements?

- A. Create several small pools that correspond to LUN size policies
- B. Create a single storage pool that contains all the MDisks
- C. Create LUN size policy in the GUI and set system cache to global via the CLI
- D. Create a single parent pool that contains smaller child pools

Correct Answer: D

Before V7.4, the disk space of a storage pool was provided from MDisks, so the capacity of a storage pool depended on the MDisk's capacity. Creating or splitting a storage pool is not possible and a user cannot freely make a storage pool with a particular capacity they want. A child pool is a new logical object that is created from a physical storage pool and provides most of the functions that Pools have (for example, volume creation), but the user can specify the capacity of the child pool at creation.

A child pool is an object similar to a storage pool, and can be used interchangeably with a storage pool. It supports volume copy and migration.

References: Implementing the IBM Storwize V7000 and IBM Spectrum Virtualize V7.6, page 89 <http://www.redbooks.ibm.com/redbooks/pdfs/sg247938.pdf>

QUESTION 7



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:

*

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

*

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

*

Encryption of data at rest stored within the Storwize V5000 system

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

QUESTION 9

A customer wants to create file shares for its Windows clients. The customer is interested in an IBM Storwize V7000 Unified.

Which protocol should the customer use for file-sharing?

- A. SMB
- B. NFS
- C. SNMP
- D. iSCSI

Correct Answer: B

Using the NFS protocol, you can transfer files between computers running Windows and other non-Windows operating systems, such as Linux or UNIX.

Note: 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: [https://technet.microsoft.com/en-us/library/jj592688\(v=ws.11\).aspx](https://technet.microsoft.com/en-us/library/jj592688(v=ws.11).aspx) http://www.ibm.com/support/knowledgecenter/ST5Q4U/com.ibm.storwize.v7000.unified.14.3.doc/mng_exports_topic_welcome.html

QUESTION 10

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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