

C9020-562^{Q&As}

IBM Storwize Family Technical Solutions V4

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QUESTION 1

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>

QUESTION 2

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 3

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 host zoning 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:

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

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.

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