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 onthe 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 2

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 MDisks\\' capacity. Creating or splitting a storage pool is not possible and a user cannot freely make astorage 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 ofthe 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 3

A customer wants to clone a database for use as a test environment.

What feature of IBM Spectrum Control Advanced Edition enables the point-in-time clone to be application consistent?

A. IBM Copy Services Manager

B. FlashCopy

C. IBM Spectrum Protect Snapshot

D. Volume Mirroring

Correct Answer: C

The IBM Spectrum Control Advanced Edition licensed program includes application-aware, snapshot-based protection that is offered by IBM Spectrum Protect Snapshot (formerly known as IBM Tivoli Storage FlashCopy Manager).

QUESTION 4

The IBM Storwize V5020 generates a heat file to input into which product to analyze the benefit of Easy Tier?

A. Storage Tier Optimizer

B. IBM Spectrum Control Advanced

C. Disk Magic

D. IBM Storage Tier Advisory Tool

Correct Answer: D

The IBM Storage Tier Advisor Tool is a Windows console application that analyzes heat data files produced by Easy Tier and produces a graphical display of the amount of "hot" data per volume and predictions of how additional Solid State Drive (SSD) capacity, Enterprise Drive and Nearline Drive could benefit performance for the system and by storage pool.

References:http://www-01.ibm.com/support/docview.wss?uid=ssg1S4000935

QUESTION 5

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 6

A solution requires access to a file share on the IBM Storwize V7000 Unified via Mac OS X 10.7, RHEL 6.4, and Windows 8.

Where should the technical specialist determine connection protocol support for this mixed environment?

A. SSIC

B. eConfig

C. Announcement

D. SalesManual

Correct Answer: A

The IBM System Storage Interoperation Center (SSIC) is used to check for hardware and software compatibility.

References:https://www.ibm.com/support/knowledgecenter/STAV45/com.ibm.sonas.doc/sv
c_connectingxivtofcswitch.html

QUESTION 7

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 isauthorized 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.v700 0.unified.143.doc/mng_exports_topic_welcome.html

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QUESTION 8

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 9

Where is the master encryption key supplied for an IBM Storwize V7000 at power on?

A. SKLM

B. SAS controller

C. USB stick

D. Quorum disk

Correct Answer: C

The master keys are stored on USB sticks at the time of array creation. This encryption support means drives themselves can be protect from malicious removal - and if drives fail and need to be replaced you can be surethat nobody can read the data from the failed drives.

References:https://www.ibm.com/developerworks/community/blogs/storagevirtualization/en try/ new_svc_and_storwize_v7_4_software?lang=en

QUESTION 10

Which tool is used to report usable capacity for IBM Storwize disk subsystems?

A. Batch Magic

B. Disk Magic

C. STAT

D. Capacity Magic

Correct Answer: D

IBM Capacity Magic is an easy-to-use tool that runs on a PC, requires a minimum of input, and calculates the physical and effective capacity of the IBM System Storage Systems,including Storwize V7000.

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