



C9020-562^{Q&As}

IBM Storwize Family Technical Solutions V4

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QUESTION 1

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 2

Which network authentication protocol is supported on the IBM Storwize V7000 Unified storage system, is used for client/server applications, and provides symmetric key cryptography?

- A. Network Information Service (NIS)
- B. Kerberos
- C. Services for UNIX (SFU)
- D. POSIX

Correct Answer: B

Kerberos To provide heterogeneous file sharing for Unix and Windows, the Storwize V7000 Unified system must support authentication methods for Unix and Windows. The Storwize V7000Unified system uses Windows authentication for incoming CIFS connections and Unix authentication for incoming NFS, HTTP, SFTP and SCP connections.

Kerberos is a network authentication protocol for client/server applications that uses symmetric key cryptography.

Note: User password in clear text format is never sent over a network; the Kerberos server grants a ticket to the client for a short span of time. This ticket is used while communicating with the server to obtain access to the service, such as a file server. The Windowsbased authentication is based on Kerberos. MIT Kerberos is a free implementation of the Kerberos protocol, which is provided by the Massachusetts Institute of Technology.

References:http://www.ibm.com/support/knowledgecenter/ST5Q4U/com.ibm.storwize.v7000.unified.142.doc/mng_authentication_basic_concepts.html



QUESTION 3

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 4

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 hostzoning 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 5

A customer wants a better understanding of how storage is being used in the file systems of various servers.

Which IBM Spectrum Control tool gathers these details?

- A. Storage Resource Agents
- B. STAT
- C. Tiered Storage Optimizer
- D. Capacity reporting

Correct Answer: A

Storage Resource agents provide file system and local disk information. You deploy Storage Resource agents if you want to enable full server monitoring for internal resources, such as controllers, disks, and file systems.

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