

C9020-562^{Q&As}

IBM Storwize Family Technical Solutions V4

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QUESTION 1

A customer is implementing an IBM Storwize V7000 Unified solution and will access both file and block storage. Two fibre channel adapters are included within each controller.

What is the maximum number of fibre channel connections the customer can connect to its SAN fabrics?

- A. 12
- B. 6
- C. 4
- D. 16

Correct Answer: D

With the introduction of the 2076-524 nodes, and the ability to have up to eight FC ports per node, there are several different options that are valid for attaching storage to the Storwize V7000 Gen2 cluster.

Apply these Storwize V7000 Unified configuration details for Fibre Channel and Fibre Channel Over Ethernet (FC/FCoE Gateway, FCF) switches to ensure that you have a valid configuration. Configuring your SAN with at least two independent switches, or networks of switches, ensures a redundant fabric with no single point of failure. If one of the two SAN fabrics fails, the configuration is in a degraded mode, but is still valid. You should maintain separate fabrics for FCoE and FC. If you attempt to combine these fabrics, you might risk adding additional paths to the volumes. Supported configurations allow a maximum of eight paths.

References:http://www.ibm.com/support/knowledgecenter/ST5Q4U/com.ibm.storwize.v7000.unified.141.doc/svc_ruleswitch_223fp0.html

QUESTION 2

An IBM technical specialist has positioned the IBM FlashSystem V9000 storage solution to meet a customer's requirement for a storage solution to host high IOPS with low latency workloads. The IBM FlashSystem V9000 uses an IBM patented Variable Stripe RAID with two dimensional Flash RAID technology.

Which statements describe these features?

- A. The Variable Stripe Array function stripes data across its set of chips within a MicroLatency Module. Two Dimensional Flash RAID function provides protection for the MicroLatency Modules.
- B. The Variable Stripe Array function stripes data across its set of chips within a MicroLatency Module. Two Dimensional Flash RAID function provides cluster protection between two installed FlashSystem V9000 systems.
- C. The Variable Stripe Array function stripes data across all the installed MicroLatency Modules. Two Dimensional Flash RAID function provides protection across DIMM memory within a MicroLatency Module.
- D. The Variable Stripe Array function stripes data across DIMM memory within a MicroLatency Module. Two Dimensional Flash RAID function provides protection for the MicroLatency Modules.

Correct Answer: A

IBM Variable Stripe RAID is a patented IBM technology that provides an intra-module RAID stripe on each flash module.

With two-dimensional (2D) Flash RAID, system-wide RAID 5 along with Variable Stripe RAID helps reduce downtime and maintain performance, and enables the provisioning of an entire flash module as a spare to be used in another flash module failure.

References: Introducing and Implementing IBMFlashSystem V9000, page 22 <http://www.redbooks.ibm.com/redbooks/pdfs/sg248273.pdf>

QUESTION 3

A customer wants to create an IBM SVC Enhanced Stretch Cluster between two data centers.

Which license is required to create this configuration?

- A. Spectrum Control
- B. Spectrum Virtualize
- C. FlashCopy
- D. Metro Mirror

Correct Answer: B

The Enhanced Stretched Cluster configuration provides a continuous availability platform, whereby host access is maintained during the loss of any single failure domain. This availability is accomplished through the inherent active/active architecture of IBM Spectrum Virtualize and SAN Volume Controller along with the use of volume mirroring.

References: IBM Spectrum Virtualize and SAN Volume Controller Enhanced Stretched Cluster with VMware, page 28

References: <http://www.redbooks.ibm.com/redbooks/pdfs/sg248211.pdf>

QUESTION 4

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 5

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

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