C9020-562^{Q&As}

IBM Storwize Family Technical Solutions V4

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QUESTION 1

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. TheVariable 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 2

Which IBM Storwize product allows for scalability up to a maximum of 20 expansion enclosures with a single control enclosure?

A. IBM Storwize V5030

B. IBM Storwize V3700

C. IBM Storwize V5020

D. IBM Storwize V5010

Correct Answer: A

V5030: Standard expansion enclosures: up to 20 standard expansion enclosures per controller. High-density expansion enclosures: up to 8 high-density expansion enclosures per controller.

QUESTION 3

A customer has two IBM Storwize V5010 systems installed at two locations and is considering IP data replication

between the two sites. The IP link between locations is a shared resource and is not scalable.

Why would Global Mirror with Change Volumes be a beneficial solution for this customer?

A. Host writes are directly replicated

B. More appropriate for lower bandwidth intersite links

C. Smaller Recovery Point Objective

D. Utilizes Enhanced Stretched Cluster

Correct Answer: B

Global Mirror withChange Volumes may be appropriate when bandwidth is an issue, although if bandwidth cannot support the replication, the cycling period may need to be adjusted from seconds up to 24 hours.

References:https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/IB M PowerHA SystemMirror for i/page/SVC, Storwize Global Mirror with Change Volume support

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QUESTION 4

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:

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 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 connectedto 8 Gb adapters in IBM FlashSystem V9000 16 Gb adapters in IBM i connected to 16 Gb adapters in IBM FlashSystem V9000

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 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.

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 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

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QUESTION 5

A state government education system is implementing a cloud solution for schools to plan and score standardized testing. The client needs a solution that supports file and block data for its environment.

Which IBM Storwize product should the IT architect recommend to maximize storage space using compression?

A. IBM Storwize V5020

B. IBM SAN Volume Controller

C. IBM Storwize V7000 Unified

D. IBM Storwize V9000

Correct Answer: C

Storwize V7000 is designed for all-flash or hybrid storage, while Storwize V7000 Unified isdesigned for block and file needs.

When you choose Storwize V7000 Unified and Storwize V7000, you gain the most advanced storage technologies to unlock the business value of your stored data, including virtualization and IBM Real-time Compression.

References:http://www-03.ibm.com/systems/storage/disk/storwize_v7000/