

C9020-562^{Q&As}

IBM Storwize Family Technical Solutions V4

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QUESTION 1

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 2

A customer is installing a new IBM Storwize V7000 model 524.

What should the customer do to access the management GUI for the first time?

- A. Use the USB drive to configure the system
- B. Connect to the technician port and use the initialization wizard
- C. Connect to the 10 Gb Ethernet port to create the cluster
- D. Download and use the Inittool

Correct Answer: A

You can use the management GUI to manage your system as soon as you have completed the USB flash drive initialization.

Note: Accessing the Storwize V7000 Unified management GUI Procedure

References:http://www.ibm.com/support/knowledgecenter/ST5Q4U/com.ibm.storwize.v7000.unified.142.doc/ifs_accessmgmtgui_3422yu.html

QUESTION 3

Which GUI option forces arrays to use only the preset number of drives when adding or editing arrays in Capacity Magic?

- A. Optimize for performance
- B. Use child pools

C. Optimize for capacity

D. Use RtC

Correct Answer: C

The GUI storage configuration wizard does not know that this storage is mapped to another SAN Volume Controller/Storwize, it can create unbalanced arrays (when optimize for capacity is chosen) or it can leave some drives unconfigured (if optimize for performance is chosen). References: IBM System Storage SAN Volume Controller and Storwize V7000 Best Practices and Performance Guidelines (4 Aug 2016), page 88

QUESTION 4

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 V7000 Unified 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 Windows based 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 5

A customer is investigating replicating data between IBM Storwize V7000 for DR purposes and has made the following calculations to help determine the correct capacity for the intersite link.

Customer formula used Amount of data replicated within 24 hours, multiplied by 4 (to allow for peaks and re-sync), translated into bit rate over the 24-hour period.

Customer calculations

-

2 GB of data per day

-

$2 \text{ GB} * 4 = 8 \text{ GB}$ of data

$-8 \text{ GB} * 8 \text{ bits} = 64 \text{ GB} / 86400 \text{ seconds}$

-

$68,719,476,736 / 86400 = 795,364 \text{ bits/second}$ bandwidth The customer has advised that the working day is 8 hours. What is the status of the calculations?

A.

It is correct.

B.

It is undersized by a factor of 2.

C.

It is undersized by a factor of 3.

D.

It is undersized by a factor of 4.

Correct Answer: C

The calculation is correct for a 24 hour workday, but as the workday is only 8 hours, the calculation is off by a factor 3.

QUESTION 6

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 7

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 IBM FlashSystem V9000, page 22 <http://www.redbooks.ibm.com/redbooks/pdfs/sg248273.pdf>

QUESTION 8

A customer has a requirement for highly available data in their IBM Storwize environment and currently uses IBM Spectrum Virtualize Software V7.5. The process to enable a volume to be addressed by two I/O groups simultaneously is challenging.

How can the customer benefit from upgrading to V7.6 of the software?

- A. HyperSwap GUI support
- B. Two I/O groups supported by two nodes
- C. Remote mirroring cluster support
- D. Stretch cluster wizard

Correct Answer: A

New functionalities in the Version 7.6 release of Spectrum Virtualize include: HyperSwap GUI support: Current local HyperSwap is functionally complete, but requires complex configuration through the existing command-line interface. This new release of HyperSwap offers a new command-line interface which greatly simplifies the set up process to a handful of commands, and also adds the ability to configure and manage local HyperSwap through the GUI.

References: <http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?subtype=caandinfotype=anandappname=iSourceandsupplier=897andletternum=ENUS215-391>

QUESTION 9

A customer is looking to enhance its existing environment with the addition of an IBM Storwize V7000. The customer currently has an EMC VNX and wants to better utilize this storage.

Which two IBM Storwize features must be licensed to address the customer's needs? (Choose two.)

- A. Thin provisioning
- B. Tiered storage optimizer
- C. Replication
- D. Real-time Compression
- E. External virtualization

Correct Answer: AB

A: Thin Provisioning (Oversubscribing)

Thin LUNs are supported. Care must be taken for the LUNs not to become over allocated or SVC will take the MDisk and its MDiskgroup offline, until corrected.

B: EMC VNX LUN configuration

The storage is provisioned from the VNX as LUNs, that appear as managed disks (Mdisks) on the SVC, which can use them to create storage pools (MDiskgroups) to provision SVC volumes (VDisks) for use by hosts or for use with tiering.

QUESTION 10

A customer has an Oracle RAC environment that requires high availability and disaster recovery in one solution.

Which feature of IBM Spectrum Virtualize addresses these needs?

- A. FlashCopy
- B. HyperScale
- C. HyperSwap
- D. Volume Migration

Correct Answer: A

IBM Spectrum Protect Snapshot uses the FlashCopy or snapshot function of the storage solutions for database cloning. This method eliminates downtime and minimizes the impact on the production database.

After you share the FlashCopy repository, configuration and binary files, an Oracle RAC database clone can be created from every node of the Oracle RAC cluster. IBM Spectrum Protect Snapshot can operate on the clone from all RAC nodes, so that a clone created on one RAC node can be inquired, refreshed, or deleted from any other node within the RAC cluster.

References: http://www.ibm.com/support/knowledgecenter/SSERFV_8.1.0/fcm.unx/c_fcmu_orc_cloning.html

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