



C9020-562^{Q&As}

IBM Storwize Family Technical Solutions V4

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QUESTION 1

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 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: http://www.ibm.com/support/knowledgecenter/ST5Q4U/com.ibm.storwize.v7000.unified.143.doc/mng_exports_topic_welcome.html

QUESTION 2

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 3

A customer with excessive annual growth is looking at a storage refresh. Which benefit does the IBM Storwize V7000 offer this customer?

- A. It supports in-place fork-lift system upgrades.
- B. It can virtualize other vendors' storage for unlimited time and size.
- C. It can scale up and scale out through clustering.
- D. It can perform a software transfer when moving to the next model.

Correct Answer: C

v6.2 Storwize V7000 offers both Scale-Up and Scale-Out possibilities for ultimate flexibility.

Control enclosures support attachment of up to nine expansion enclosures with configurations up to 360 TB physical internal storage capacities (for Storwize V7000, up to 1.44 PB in clustered systems) Flex System V7000 can scale up to 240 (2.5" disks) per control enclosure; 960 (2.5" disks) per clustered

system. References: https://en.wikipedia.org/wiki/IBM_Storwize_family#Storwize_V7000

QUESTION 4

The users within a department require a shared folder on their Windows desktop.

Which protocol accomplishes this requirement?

- A. GPFS
- B. CIFS
- C. NFS
- D. HTTPS

Correct Answer: B

You can connect to a CIFS share using a CIFS client, such as Microsoft Windows.

The Common Internet File System (CIFS) is the standard way that computer users share files across corporate intranets and the Internet. An enhanced version of the Microsoft open, cross-platform Server Message Block (SMB) protocol, CIFS is a native file-sharing protocol in Windows.

References: http://www.ibm.com/support/knowledgecenter/ST5Q4U/com.ibm.storwize.v7000.unified.141.doc/usgr_cnnctng_via_cifs_frm_wndws.html <https://technet.microsoft.com/en-us/library/cc939973.aspx>



QUESTION 5

A customer wishes to provide a VMware administrator with storage capacity to manage the volume creation. The system only has one storage pool.

How should the customer configure the existing system to limit the capacity provided to the administrator?

- A. Use IBM Spectrum Control Base
- B. Create one large volume
- C. Create another storage pool with new storage
- D. Create a child pool

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 MDisk's capacity. Creating or splitting a storage pool is not possible and a user cannot freely make a storage 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 of the 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>

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