



# C9020-562<sup>Q&As</sup>

IBM Storwize Family Technical Solutions V4

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**QUESTION 1**

A customer is interested in replacing a NetApp E-series disk array with one that supports auto-tiering between NL-SAS, SAS, and SSD disk technologies.

Which advantage does the IBM Storwize V7000 model 524 have over the competition?

- A. The V7000 relocates data based on current usage.
- B. The V7000 predictively relocates data
- C. The V7000 uses SSDs for quorum disks.
- D. The V7000 relocates the DACstor metadata to SSDs.

Correct Answer: A

Flex System V7000 Storage Node includes IBM System Storage Easy Tier, a function that responds to the presence of flash 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 SSD MDisks, thus placing such data in a faster tier of storage.

EasyTier eliminates manual intervention when assigning highly active data on volumes to faster responding storage. In this dynamically tiered environment, data movement is seamless to the host application regardless of the storage tier in which the data resides.

References: [https://publib.boulder.ibm.com/infocenter/flexsys/information/index.jsp?topic=\\_Fcom.ibm.acc.4939.doc\\_Fsvc\\_easy\\_tier.html](https://publib.boulder.ibm.com/infocenter/flexsys/information/index.jsp?topic=_Fcom.ibm.acc.4939.doc_Fsvc_easy_tier.html)

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**QUESTION 2**

What is the minimum of connections that an IBM Storwize node canister should have to a host according to best practices?

- A. 4
- B. 1
- C. 2
- D. 6

Correct Answer: C

The system contains a Storwize V7000 storage system. Each Storwize V7000 single processing unit is a node canister, which is also called a node. The two nodes within their canisters make an I/O group that is attached to the SAN fabric.

Each Storwize V7000 control enclosure requires two Ethernet cables to connect it to an Ethernet switch or hub. One cable connects to port 1 of the left node canister, and the other cable connects to port 1 of the right node canister. A 10/100/1000 Mb Ethernet connection is required for each cable. Both Internet Protocol Version 4 (IPv4) and Internet Protocol Version 6 (IPv6) are supported.

Note: For increased redundancy, an optional second Ethernet connection is supported for each Storwize V7000 node canister.



References: [http://www.ibm.com/support/knowledgecenter/ST3FR7\\_7.7.0/com.ibm.storwize.v7000.770.doc/svc\\_portsandconnect\\_gen2.html](http://www.ibm.com/support/knowledgecenter/ST3FR7_7.7.0/com.ibm.storwize.v7000.770.doc/svc_portsandconnect_gen2.html)

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### QUESTION 3

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.

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### QUESTION 4

How does the IBM Storwize native IP replication provide optimal utilization of the IP network?

A. It communicates with external WAN Optimization devices to achieve maximum efficiency.



- B. It uses Real-time Compression of data prior to replication.
- C. It uses artificial intelligence and sends multiple parallel streams.
- D. It utilizes intelligent switches in the network to minimize latency.

Correct Answer: C

The native Internet Protocol (IP) replication feature enables replication between any SVC/Storwize family member running code version 7.2 or higher, using the built-in networking ports of the cluster nodes. Following a recent partnership with IBM, it uses SANslide technology developed by Bridgewater Limited of Christchurch, UK. They specialize in products that can bridge storage protocols and accelerate data transfer over long distances.

Adding this technology at each end of a wide area network (WAN) Transmission Control Protocol/Internet Protocol (TCP/IP) link significantly improves the usage of the link. It does this by applying patented Artificial Intelligence (AI) to hide latency normally associated with WANs.

The technology built into the SVC/Storwize code uses TCP/IP latency to its advantage. Rather than wait for the acknowledgment to come back, it sends more sets of packets across other virtual connections. The number of virtual connections is controlled by the AI engine.

This improves WAN connection use, which results in a data transfer rate approaching full line speed.

References: IBM SAN Volume Controller and Storwize Family Native IP Replication, page [http://](http://www.redbooks.ibm.com/redpapers/pdfs/redp5103.pdf)

[www.redbooks.ibm.com/redpapers/pdfs/redp5103.pdf](http://www.redbooks.ibm.com/redpapers/pdfs/redp5103.pdf)

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## QUESTION 5

A local credit union is installing a new Power Linux Spectrum Protect server with container storage pools and needs more bulk storage. It has a business requirement for encryption at rest. Cost is a consideration.

Which solution meets the customer requirements?

- A. IBM Storwize V5030
- B. IBM Storwize V5010
- C. IBM Storwize V5020
- D. IBM Storwize V9000

Correct Answer: C

Storwize V5020 control enclosure models offer mid-level performance, scalability, and functionality with:



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Two 2-core, four-thread processors and up to 32 GB of cache

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Support for up to 392 drives per system with the attachment of Storwize V5000 expansion enclosures

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Encryption of data at rest stored within the Storwize V5000 system

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