



# IBM

**C9020-668 Exam**

**IBM Storage Technical V1 Exam**

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## Version: 9.0

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### Question: 1

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An IBM mainframe client has IBM DS8886 CKD storage installed. The customer has decided to use another new IBM DS8886 and use IBM Metro Mirror to provide a synchronous redundant copy of the data.

Which additional IBM software enables non-disruptive failover in the event of a storage hardware failure?

- A. IBM Remote Pair FlashCopy
- B. IBM Global Mirror
- C. IBM High performance FICON
- D. IBM HyperSwap

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**Answer: D**

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Explanation:

You can create an IBM HyperSwap topology system configuration where each I/O group in the system is physically on a different site. When used with active-active relationships to create HyperSwap volumes, these configurations can be used to maintain access to data on the system when power failures or site-wide outages occur.

References:

[https://www.ibm.com/support/knowledgecenter/en/STVLF4\\_7.7.1/spectrum.virtualize.771.doc/svc\\_hyperswap\\_configuration](https://www.ibm.com/support/knowledgecenter/en/STVLF4_7.7.1/spectrum.virtualize.771.doc/svc_hyperswap_configuration)

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### Question: 2

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How are key management services provided for the IBM DS8886 storage system?

- A. SKLM
- B. Blockchain
- C. Full disk encryption
- D. Non-repudiation system

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**Answer: A**

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Explanation:

Full Disk Encryption (FDE) drive sets are used with key management services that are provided by IBM Security Key Lifecycle Manager (SKLM) software or Gemalto SafeNet KeySecure to allow encryption for data-at-rest on a DS8880.

References: IBM DS8880 Data-at-rest Encryption, December 2016, page ix

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### Question: 3

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Which offering provides scale-out parallel processing and dynamically accelerates performance of analytics clusters when integrated with the IBM FlashSystem?

- A. IBM XIV
- B. IBM Spectrum Scale
- C. Real-time Compression
- D. IBM Spectrum Copy Data Management

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**Answer: B**

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Explanation:

Although Spectrum Scale and FlashSystem are both available by themselves, and there's no requirement to combine them, doing so can result in the IT equivalent of "1+1=3." Each solution complements the other in supporting the needs of two of today's most common, fastgrowing "application ecosystems"—private clouds and [big] data analytics. Both of those application ecosystems must deliver extreme capacity and extreme performance simultaneously and economically. If only one or two of the scale/speed/economy attributes is needed, then each of the IBM products can stand alone very well. But where all three are prerequisites, the joint IBM solution shines.

References:

[http://docs.media.bitpipe.com/io\\_13x/io\\_131467/item\\_1372378/Enabling%20Private%20Clouds%20and%20Analytics.PDF](http://docs.media.bitpipe.com/io_13x/io_131467/item_1372378/Enabling%20Private%20Clouds%20and%20Analytics.PDF)

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#### Question: 4

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A customer has an older IBM storage subsystem and wants to know where to find the Service Discontinued data for the product.

What should the technical specialist tell the customer?

- A. Check IBM Digital Techline Center.
- B. Check IBM SSIC webpage.
- C. Check the IBM sales manual.
- D. Check the IBM Knowledge Center.

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**Answer: D**

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Explanation:

When service is discontinued, corrections to known problems remain available, but the development team is redirected to other work, and no new, tested corrections will be generated for general use. Known problems may be reviewed and ordered via electronic vehicles such as the internet (e.g., <http://www.ibm.com/support>) however support provided by the IBM Client Support representatives, will be discontinued.

References: <https://www-304.ibm.com/support/customer-care/sas/f/handbook/offerings>

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#### Question: 5

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Which OpenStack component allows management of IBM XIV and IBM DS8884 through a dashboard that gives administrators control while empowering users to provision resources through a web interface?

- A. Swift
- B. Horizon
- C. Cinder
- D. Nova

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**Answer: B**

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Explanation:

Horizon is the canonical implementation of OpenStack's Dashboard, which provides a web based user interface to OpenStack services including Nova, Swift, Keystone, etc.

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**Question: 6**

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A customer wants to improve overall workload performance and is considering adding either an IBM Storwize V7000F or an IBM FlashSystem A9000 to the environment.

Which key performance characteristic differentiates these two products?

- A. Latency
- B. Connect time
- C. Cache hit rate
- D. Queue time

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**Answer: A**

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Explanation:

IBM FlashSystem A9000 includes the following key capability for optimal solution in a cloud environment: FlashCore technology provides extreme MicroLatency performance.

References: <http://www.redbooks.ibm.com/redpapers/pdfs/redp5325.pdf>, IBM FlashSystem A9000 Product Guide

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**Question: 7**

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A customer has floor and rack space constraints.

Which model should be included with a single frame IBM TS4500 L25?

- A. Additional I/O station
- B. Top rack with PDU
- C. HD2 storage frame
- D. Additional cartridge magazines

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**Answer: B**

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Explanation:

The TS4500 tape library offers high-density (HD), drive-capable and storage-only frame models that are designed to greatly increase storage capacity without increasing frame size or required floor space. The top rack, 3584 Model TR1, provides an extra 10U of rack space on any frame in a library without requiring more floor space.

References:

[https://www.ibm.com/support/knowledgecenter/en/STQRQ9/com.ibm.storage.ts4500.doc/ts4500\\_library\\_structure](https://www.ibm.com/support/knowledgecenter/en/STQRQ9/com.ibm.storage.ts4500.doc/ts4500_library_structure)

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**Question: 8**

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Which IBM products should the technical specialist propose to a customer who is using disk-based backups to meet regulatory requirements for low recovery time objectives?

- A. IBM Spectrum Control Advance
- B. IBM Spectrum Archive
- C. IBM Spectrum protect
- D. IBM Spectrum Control Base

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**Answer: C**

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Explanation:

IBM Spectrum Protect, formerly Tivoli Storage Manager family, provides backup, snapshot, archive, recovery, space management, bare machine recovery and disaster recovery capabilities.

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**Question: 9**

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Which IBM XIV replication feature provides the ability for a remote target volume to be initialized without requiring the contents of the source volume to be re-replicated over an inter-site link?

- A. Offline Initialization
- B. Quick Initialization
- C. Synchronous Replication
- D. Asynchronous Replication

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**Answer: A**

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Explanation:

When an XIV mirror coupling is first activated, all actual data on the source is either copied to the destination (normal initialization) or verified to be on the destination, and only changed data is copied (offline initialization). This process is referred to as initialization.

References: <https://www.redbooks.ibm.com/redbooks/pdfs/sg247759.pdf>, page 83

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**Question: 10**

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What is the complete source of information for power, cooling, and floor space requirements for IBM tape products?

- A. Preinstall TDA checklist
- B. Product announcement letters
- C. Installation and Planning Guide
- D. IBM Storage System Interoperation Center

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**Answer: A**

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Explanation:

The Technical Delivery Assessment (TDA) pre-installation checklist and worksheets document provides several worksheets that the customer must complete for each XIV system.

References:

[https://www.ibm.com/support/knowledgecenter/en/STJTAG/com.ibm.help.xivgen3.doc/Gen3/PG/xiv\\_pln3overview](https://www.ibm.com/support/knowledgecenter/en/STJTAG/com.ibm.help.xivgen3.doc/Gen3/PG/xiv_pln3overview)

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**Question: 11**

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Which function provides a high availability feature with dual-site, active-active access to a volume in IBM Spectrum Virtualize?

- A. Hypersite
- B. Hyperledger
- C. Hyper-Scale
- D. HyperSwap

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**Answer: D**

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Explanation:

You can create an IBM HyperSwap topology system configuration where each I/O group in the system is physically on a different site. When used with active-active relationships to create HyperSwap volumes, these configurations can be used to maintain access to data on the system when power failures or site-wide outages occur.

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