

C9020-668.73q

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C9020-668



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IBM Storage Technical V1

Exam A

QUESTION 1



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

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

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.html

QUESTION 2

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?



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



D. IBM Spectrum Control Base

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

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

Incorrect Answers:

A: IBM Spectrum Control Standard and Advanced Editions are integrated data and storage management software solutions that provides monitoring, automation and analytics for multiple storage systems.

B: IBM Spectrum Archive Single Drive Edition features IBM Linear Tape, not disk-based, File System.

D: IBM Spectrum Control Base Edition is a centralized cloud integration system that consolidates a range of IBM storage provisioning, virtualization, cloud, automation, and monitoring solutions through a unified server platform.

References: https://www.ibm.com/us-en/marketplace/data-protection-and-recovery

QUESTION 3

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 rereplicated over an inter-site link?

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

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

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

QUESTION 4

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

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

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.html

QUESTION 5

A customer needs to exchange encrypted data cartridges with another company. A competitor offers a solution that encrypts the data with static keys loaded the tape drives. IBM proposes IBM TS1150 tape drives using the built-in encryption feature.

Which competitive advantage does the IBM TS1150 solution provide?

- A. It achieves better throughput by encrypting and compressing data at the same time.
- B. It stores keys in the drive that can then be exported to partners in a secure format.
- C. It compresses the data before encrypting to achieve a better compression ratio.
- D. it writes a unique encrypted data key on the cartridge using public/private key pairs.

Correct Answer: D Section: (none) Explanation



Explanation/Reference:

Explanation:

How the encryption key server processes encryption keys

In system-managed and library-managed tape encryption, unencrypted data (clear text) is sent to the tape drive (TS1150 Tape Drive, TS1140 Tape Drive, TS1130 Tape Drive), and converted to ciphertext using a symmetric 256-bit AES Data Key (DK) generated by the encryption key server. The ciphertext is then written to tape. The encryption key server uses a single, unique Data Key for each Enterprise Tape Cartridge. This Data Key is also encrypted, or wrapped, by the encryption key server using the public key from an asymmetric Key Encrypting Key (KEK) pair. This process creates an Externally Encrypted Data Key (EEDK). The EEDK is written to the cartridge memory and to three additional places on the tape media in the cartridge. The tape cartridge now holds both the encrypted data and the means to decrypt it for anyone holding the private part of the KEK pair.

The DK may also be wrapped a second time using the public key of another party to create an additional EEDK. Both EEDKs can be stored on the tape cartridge. In this way, the tape cartridge can be shipped to a business partner holding the corresponding private key. That private key would allow the DK to be unwrapped and the tape decrypted by the business partner.

References: https://www.ibm.com/support/knowledgecenter/en/STFS69 3.3.0/ts7740 encryption keys.html

QUESTION 6

A customer wants to improve storage efficiency within a data center. The customer requires a low latency storage system that has a highly parallel architecture and comprehensive data reduction with pattern removal.

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Which system should the technical specialist propose?

A. IBM DS8886 HPFE

B. IBM FlashSystem A9000RC. IBM FlashSystem V9000

D. IBM XIV with compression

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

IBM FlashSystem A9000 is a highly parallel, all-flash storage solution for cloud-scale businesses:

Harness the performance of highly parallel architecture and IBM FlashCore technology in one innovative system
 Optimize storage economics with pattern removal, deduplication, and compression

Incorrect Answers:

B: IBM FlashSystem(R) A9000R is a grid-scale, all-flash storage platform.

References: https://www-01.ibm.com/common/ssi/rep_ca/7/872/ENUSAG16-0087/ENUSAG16-0087.PDF



QUESTION 7

Which solution provides virtualization, consolidation, and automation for a cloud deployment?

- A. IBM XIV with IBM Spectrum Protect
- B. IBM FlashSystem 900
- C. IBM Virtual Storage Center
- D. IBM Spectrum Accelerate

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

IBM Virtual Storage Center is a storage virtualization platform and a storage management solution for cloud-based and software-defined storage. Virtual Storage Center enables organizations to monitor, automate and analyze storage.

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Incorrect Answers:

B: IBM FlashSystem 900 all-flash storage arrays accelerate applications in mission-critical environments.

D: Use IBM Spectrum Accelerate to build a flexible, cost-effective cloud environment: deploy on any x86 server.

References: http://www-03.ibm.com/software/products/en/ibm-virtual-storage-center

QUESTION 8

A customer looking for an all-flash solution is evaluating IBM products. The primary concern for the customer is rapid growth of its database environment.

Which IBM flash solution should the specialist recommend to control capacity utilization?

- A. IBM XIV Gen3 with SSD
- B. IBM DS8886 HPFE
- C. IBM Flashsystem A9000
- D. IBM FlashSystem 900

Correct Answer: D Section: (none) Explanation

Explanation/Reference:



Explanation:

IBM FlashSystem 900 is designed to accelerate the applications that drive business – like those using an Oracle Database.

IBM FlashSystem 900 can scale usable capacity from as low as 2 TB to as much as 57 TB in a single system.

FlashSystem 900 delivers Tier 0 top application performance with up to 1.1 million 100% random read IOPS and 600,000 100% random write IOPS.

References: https://www.ibm.com/us-en/marketplace/flash-storage

QUESTION 9

A customer needs to import and export volumes between IBM Spectrum Virtualize clusters that are geographically separated.

How can this be accomplished?

- A. Create image mode volumes
- B. Snapshots with Transparent Cloud Tiering
- C. Implement IBM Spectrum Archive
- D. Utilize tiering-to-tape media

Correct Answer: B Section: (none) Explanation



Explanation/Reference:

Explanation:

Transparent cloud tiering is a licensed function that enables volume data to be copied and transferred to cloud storage. The system supports creating connections to cloud service providers to store copies of volume data in private or public cloud storage.

With transparent cloud tiering, administrators can move older data to cloud storage to free up capacity on the system. Point-in-time snapshots of data can be created on the system and then copied and stored on the cloud storage.

References: https://www.ibm.com/support/knowledgecenter/en/STVLF4 7.8.1/spectrum.virtualize.781.doc/svc_icoverviewtranparentcltier.html

QUESTION 10

Which component of IBM Spectrum Scale enables data to be imported from several servers at the same time?

- A. HDFS Transparency connector
- B. IBM Spectrum Protect integration
- C. Cloud Object Storage support
- D. Multi-Cluster feature



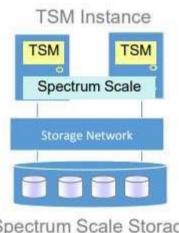
Correct Answer: B Section: (none) **Explanation**

Explanation/Reference:

Explanation:

With Spectrum Scale multiple Spectrum Protect instances use the same storage • Capacity and performance management is seamless within a global name space • Scalability is seamless and transparent

• File system replication is integrated with Spectrum Scale for different platforms • Central administration of TSM storage





Spectrum Scale Storage

Note: Multiple Spectrum Protect (TSM) instances store DB and storage pools in a Spectrum Scale file system (GPFS) • Spectrum Scale provides global name space for all Spectrum Protect instances

- Instances share all file system resources
 - Spectrum Protect instances run on cluster nodes accessing the file system and disk directly
 - Spectrum Scale file systems balances the workload and capacity for all TSM instances on disk
 - Provides standardized, scalable and easy to use storage infrastructure for the multiple instances

Incorrect Answers:

A: IBM Spectrum Scale HDFS transparency offers a set of interfaces that allows applications to use HDFS Client to access IBM Spectrum Scale through HDFS RPC requests.



References: https://www-03.ibm.com/support/techdocs/atsmastr.nsf/5cb5ed706d254a8186256c71006d2e0a/3264fd1e3716c13586257f460072493d/\$FILE/SpectrumProtect_on_Spectrum%20Scale_Intro_v6.3.pdf

QUESTION 11

A customer asks about the implication of replacing a current tape library with a single disk-only IBM TS7760.

Which key point should the technical specialist address?

- A. Validate that the new virtual library emulates the correct drive type.
- B. Confirm the compression ratio on the tapes to calculate the disk space needed.
- C. Identify the current provision for tape vaulting and disaster recovery.
- D. Check whether current tape media is encrypted.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Explanation:

The TS7700 is a member of the TS line of products and builds upon previous implementations of tape storage virtualization.

For example, the TS1155 Tape drive is not compatible with IBM TS7700 or Enterprise Tape Control Unit environments.

References: http://www.redbooks.ibm.com/redbooks/pdfs/sg245946.pdf, IBM Tape Library Guide for Open Systems (August 2017), page 127

QUESTION 12

A customer wants to replace an existing HDS system connected to an IBM z/OS mainframe with a storage solution to reduce cooling requirements and potential of mechanical failure.

Which storage solution should the technical specialist recommend?

- A. IBM FlashSystem 900
- B. IBM FlashSystem V9000
- C. IBM DS8886 HPFE
- D. IBM DS8884 with SAS drives

Correct Answer: D Section: (none) Explanation



Explanation/Reference:

Explanation:

IBM invented the z Systems I/O architecture. Systems, SAN and DS8880 are jointly developed.

QUESTION 13

A customer has existing SAP HANA production nodes connected to an IBM Elastic Storage Server (ESS). The customer needs to scale out additional ESS nodes to maintain the high I/O throughput requirement.

Which type of nodes should be proposed?

- A. Storage nodes with SAS drives
- B. Storage nodes with SSD drives
- C. Protocol nodes with SAS drives
- D. Protocol nodes with SSD drives

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

A scale-out NAS system is comprised of multiple NAS storage nodes with internal or external storage. Each NAS storage node represents the same file systems to user applications. Data is stored across all NAS storage nodes, and adding capacity can be achieved by adding more storage nodes.

References: https://www-03.ibm.com/systems/storage/spectrum/scale/scale-out-nas.html

QUESTION 14

An IBM DS8886 customer wishes to replicate data from the primary data center to a new secondary data center 310 miles (500km) away while maintaining a low recovery point objective.

Which offering should the technical specialist recommend?

- A. SnapMirror
- B. Metro Mirror
- C. Global Mirror
- D. FlashCopy

Correct Answer: C



Section: (none) Explanation

Explanation/Reference:

Explanation:

Global Mirror is a long-distance remote copy function across two sites using asynchronous technology. Global Mirror processing is designed to provide support for virtually unlimited distance between the local and remote sites, with the distance typically limited only by the capabilities of the network and the channel extension technology.

Incorrect Answers:

B: Metro Mirror provides real-time mirroring of logical volumes between two DS8000 storage units that can be located up to 300 km from each other.

References: https://www.ibm.com/support/knowledgecenter/en/HW213 7.1.0/com.ibm.storage.ssic.help.doc/f2c copysgintro 1xiohq.html

QUESTION 15

A customer has existing fiber attached storage that has reached the end of life. The customer wants a scalable solution that is easy to manage and integrates with VMware. The customer prefers an IBM A9000R based solution, but is concerned about migrating the virtual machines and ESX boot volumes.

Which explanation addresses the customer's concern?

- A. Use VMware Storage vMotion to migrate virtual machines and boot volumes.
- B. IBM A9000R has both a vCenter and VAAI plug in.
- C. Use IBM Spectrum Control to virtualize and move existing storage to the new IBM A9000R.
- D. IBM A9000R has a built in capability to copy the existing data.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Explanation:

VMware VMotion: Allows the live migration of running VMs from one physical server to another, one data store to another, or both. This migration has zero downtime, continuous service availability, and complete transaction integrity.

References: http://www.redbooks.ibm.com/redpapers/pdfs/redp5425.pdf
Using the IBM Spectrum Accelerate Family in VMware Environments, page 15

QUESTION 16

What should a technical specialist request to provide latency analysis for an Oracle DB system and help predict performance impact of IBM Flash Systems?



- A. DB Trace report
- B. nmon analyzer report
- C. Perfrep report
- D. AWR report

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

IBM FlashSystem offers customers the ability to speed up databases to rates that may not be possible even by over provisioning the fastest spinning disk arrays. You can use native Oracle Database tools to determine the effects that flash storage can have on Oracle Database environments.

Oracle utilities—Statspack and now Automatic Workload Repository (AWR) reports —provide database administrators with detailed information concerning a snapshot of database execution time. This snapshot provides statistics on wait events, latches, storage input and output volumes, and timings as well as various views of memory and SQL activities.

References: https://www-01.ibm.com/common/ssi/cgi-bin/ssialias?htmlfid=ORW03038USEN

QUESTION 17

A customer has a requirement to add high availability to all systems in the data center. It has an IBM TS4500 tape Library in use.

What must be added to the library to meet the high availability requirement?

- A. Additional convenience I/O stations
- B. Redundant Library Managers
- C. Dual accessors
- D. Dual grippers

Correct Answer: C Section: (none)

Explanation

Explanation/Reference:

Explanation:

When an optional second accessor is installed, the TS4500 tape library features high availability (HA) which enhances the library performance.



References: https://www.ibm.com/support/knowledgecenter/en/STQRQ9/com.ibm.storage.ts4500.doc/ts4500_ipg_dual_accessors.html

QUESTION 18

A solution architect has determined the amount of spindles needed to satisfy performance and Raid level requirements for an IBM DS8886.

Which tool provides information on the number of spare drives included in the system?

- A. STAT
- B. Capacity Magic
- C. Disk Magic
- D. e-config

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

Capacity Magic is an easy-to-use tool to help with capacity planning for physical and usable capacities based on installation drive capacities and quantities in intended RAID configurations.

References: IBM DS8880 Architecture and Implementation (Release 8.2.1), page 82

QUESTION 19

A customer has multiple data types and is looking for space savings on the storage environment.



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Which data type can benefit from Real-time Compression?



- A. Media files
- B. Virtual servers
- C. Compressed database files
- D. Encrypted user documents

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

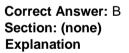
References: IBM Real-time Compression in IBM SAN Volume Controller and IBM ..., Volume 7000, page 4

QUESTION 20

A customer with a block storage from a competitor desires an OpenStack ready platform for storage management.

Which solution should the technical specialist recommend?

- A. IBM Spectrum Control
- B. IBM Spectrum Scale
- C. IBM Spectrum protect Suite
- D. IBM PowerVM NovaLink





Explanation/Reference:

Explanation:

Using IBM Spectrum Scale in an OpenStack cloud environment offers many benefits, including the enterprise features of IBM Spectrum Scale and consolidated storage options.

OpenStack include the Cinder component, which Provides virtualized block storage for virtual machines.

Incorrect Answers:

A: IBM Spectrum Control is a comprehensive solution that can significantly improve monitoring, automation and analytics capabilities in multi-vendor storage environments.

References: https://www.ibm.com/support/knowledgecenter/en/STXKQY 4.2.3/com.ibm.spectrum.scale.v4r23.doc/bl1ins openstackusecase.htm



QUESTION 21

Which IBM FlashSystem A9000 function enables the division of storage system administration tasks into logical domains?

- A. Storage-based permissions
- B. Access-based permissions
- C. Role-based permissions
- D. interface-based permissions

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

IBM FlashSystem A9000 enables a secure isolation of logical domains of storage resources among numerous tenants, with the ability to set different QoS levels for each domain. Multi-tenancy enables the division of storage system administration tasks into logical domains by using role-based permissions.

References: IBM FlashSystem A9000 Product Guide, page 2 http://www.redbooks.ibm.com/redpapers/pdfs/redp5325.pdf QUESTION 22

A customer has a fully licensed single frame IBM TS4500 with four 3592 drives installed, using about 200 storage slots, and a small IBM TS3310 library with two LTO-6 drives and 60 LTO-6 cartridges. The customer wants to consolidate the two libraries and move the LTO cartridges into the IBM TS4500.

Which upgrade to the IBM TS4500 achieves this goal?

- A. Upgrade the LTO-6 drive models and move them into the existing frame.
- B. Use the existing frame, and add two new LTO-6 drives.
- C. Add a new drive frame, with two new LTO-7 drives.
- D. Move the two LTO-6 drives into a new IBM TS4500 drive frame.

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

TS4500 tape library frame models: Frame Position 1 capacity: Up to 12 tape drives and 550 storage slots

References: https://www.ibm.com/support/knowledgecenter/en/STQRQ9/com.ibm.storage.ts4500.doc/ts4500_library_structure.html



QUESTION 23

Which non-concurrent capacity upgrade is possible for a customer with an IBM FlashSystem 900?

- A. Systems purchased with eight 2.9 TB flash modules can be expanded to twelve 2.9 TB flash modules.
- B. Systems purchased with eight 5.7 TB flash modules can be expanded to twelve 2.9 TB flash modules.
- C. Systems purchased with eight 1.2 TB flash modules can be expanded to twelve 2.9 TB flash modules.
- D. Systems purchased with eight 1.2 TB flash modules can be expanded to twelve 5.7 TB flash modules.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Explanation:

FlashSystem 900 can be populated with up to 12 x 1.2 TB IBM MicroLatency modules in increments of 4, 6, 8, 10, or 12; or up to 12 x 2.9 TB or 5.7 TB IBM MicroLatency modules in increments of 6, 8, 10, or 12.

These modules of either 1.2 TB, 2.9 TB, or 5.7 TB cannot be intermixed. Capacity can be upgraded by purchasing the AF23 (1.2 TB), AF24 (2.9 TB)) or AF25 (5.7 TB) IBM MicroLatency module feature codes as MES upgrades. Here are the upgrade paths: • Using AF23 (1.2 TB)

Start with 2.4 TB and grow to 4.8 TB 7.2 TB 9.6 TB, or 12 TB

Using AF24 (2.9 TB)

Start with 5.8 TB and grow to 11.6 TB, 17.4 TB, 23.2 TB, or 29 TB

Using AF25 (5.7 TB)

Start with 11.4 TB and grow to 22.8 TB, 34.2 TB, 45.6 TB, or 57 TB

References: http://www.redbooks.ibm.com/technotes/tips1261.pdf

QUESTION 24

A customer issued an RFP to replace EMC Disks. Vendors are being asked to provide the best competitive advantage in their proposals.

What should the IBM proposal on an IBM FlashSystem A9000 include in the bid?

- A. All software features included in base price
- B. Flash cache
- C. HyperSwap migration
- D. Fully-automated software tiering



Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 25

IBM has proposed IBM Spectrum Control for a customer who is currently using multiple vendor tools to manage a complex heterogenous storage environment.

How does IBM Spectrum Control do this?

- A. Simplified single-pane of glass management
- B. Large-scale single name space
- C. Enabled cloud-based management
- D. Heterogeneous data migration

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

Explanation:

IBM Spectrum Control offers a single pane of glass to monitor the performance of all your IBM Spectrum Scale clusters.

References: https://www.ibm.com/developerworks/community/blogs/869bac74-5fc2-4b94-81a2-6153890e029a/entry/test?lang=en

QUESTION 26

A customer has released a RFP for a cloud solution to monitor and analyze storage usage on IBM Spectrum Virtualize and EMC disk. The proposed solution will replace on-site monitoring software.

Which product should the technical specialist recommend?

- A. IBM Spectrum Control Storage Insights
- B. IBM Electronic Service Agent
- C. IBM Storage Alert Manager
- D. IBM Spectrum Scale

Correct Answer: A



Section: (none) Explanation

Explanation/Reference:

Explanation:

IBM Spectrum Control Storage Insights optimizes your on-premises storage infrastructure and data placement using predictive analytics in this cloud-based solution.

Incorrect Answers:

B: IBM Electronic Service Agent is a no-charge software tool that resides on your system to automatically and continuously monitor, collect, and submit hardware problem information to the IBM Electronic Support website. IBM Electronic Service Agent can also routinely collect and submit hardware, software, performance, and system configuration information, which might help IBM Support in diagnosing problems.

D: IBM Spectrum Scale, based on IBM General Parallel File System (GPFS™), is a proven, scalable, high-performance file management system that is being used extensively across multiple industries worldwide. IBM Spectrum Scale provides simplified data management and integrated information lifecycle tools capable of managing petabytes of data and billions of files, in order to address the growing cost of managing ever growing amounts of data.

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References: https://www.ibm.com/ms-en/marketplace/analytics-driven-data-management

QUESTION 27

Which tool can be used to model the service time of the storage workload for a customer considering a storage consolidation to a new IBM storage platform?

- A. Disk Magic
- B. IBM Spectrum Control
- C. Arxscan
- D. Batch Magic

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Explanation:

Disk Magic is a tool for sizing and modelling disk systems for various servers.

Using Disk Magic will provide you with more knowledge about how performance for your specific workloads will change under various growth and/or hardware configuration scenarios.

Incorrect Answers:



C: Arxscan delivers fast and meaningful reporting and analysis for any size and type of storage environment, providing capacity, utilization, performance and dozens of other important metrics for all types of physical and virtual storage platforms and supports all major vendors in one, light weight, affordable solution.

D: Batch Magic is a powerful application for tape and batch window tuning and capacity planning.

References: http://www-304.ibm.com/partnerworld/gsd/showimage.do?id=25691

QUESTION 28

A security policy for a customer specifies a need for similar methods to manage encryption keys for disk and tape storage. A recent proposal includes the IBM TS4500 and IBM Storwize V5030.

What should the technical specialist highlight?

- A. IBM Spectrum Control will manage encryption for both products.
- B. IBM Security Key Lifecycle Manager will manage keys for both products.
- C. The same USB key can contain the encryption keys for both products.
- D. IBM Spectrum Protect will provide encryption keys for both products.

Correct Answer: B Section: (none) Explanation



Explanation/Reference:

Explanation:

IBM Security Key Lifecycle Manager for Dell Migration Customers centralizes, simplifies and automates the encryption key management process to help minimize risk and reduce operational costs. It offers robust key storage, serving and lifecycle management for IBM and non-IBM storage devices.

References: http://www-03.ibm.com/software/products/en/key-lifecycle-manager-dell

QUESTION 29

A customer wants to migrate from IBM DS5300 to an IBM FlashSystem V9000 and wants to determine reductions in physical storage requirements.

Which tool should the customer use?

- A. IBM Comprestimator Utility
- B. Capacity Magic
- C. IBM Storage Tier Advisor Tool
- D. Storage Consolidation Evaluation Tool hosted by Alinean



Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

Capacity Magic calculates the effective storage capacity of your current and future IBM Disk Subsystems through an easy-to-use graphical dialog. This tool is available to IBM Business Partners.

The IBM tool Capacity Magic can be used to verify capacity and space utilization plans.

Incorrect Answers:

A: The Comprestimator utility uses advanced mathematical and statistical algorithms to perform the sampling and analysis process in a very short and efficient way. The utility also displays its accuracy level by showing the maximum error range of the results achieved based on the formulas it uses. The utility runs on a host that has access to the devices that will be analyzed, and performs only read operations so it has no effect whatsoever on the data stored on the device.

C: The IBM Storage Tier Advisor Tool predicts whether the addition of Solid State Drive (SSD), Enterprise Drive and Nearline Drive capacity in conjunction with the Easy Tier function.

D: The IBM Systems Consolidation Evaluation Tool, from Alinean, Inc., can help you obtain an independent view of potential savings. In a matter of minutes you can see high level, quantifiable results for potential total cost of ownership and critical financial savings.

References: https://www-01.ibm.com/support/docview.wss?uid=tss1wp102305&aid=1

QUESTION 30

Which statement correctly applies to RPO and Copy Data Services?

- A. RPO is the minimum time interval that a mirrored volume or consistency group lag behind the source volume
- B. Volumes backed up from clones do not affect RPO.
- C. RPO is a pre-defined parameter based on the type of replication selected.
- D. Multiple consistency groups can be supported with asynchronous mirroring for different RPOs.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

Consistency groups creates a consistent point-in-time copy of multiple volumes, with negligible host impact. You can enable FlashCopy consistency groups from the DS CLI.



Note: Recovery Point Objective (RPO) describes the interval of time that might pass during a disruption before the quantity of data lost during that period exceeds the Business Continuity Plan's maximum allowable threshold or "tolerance."

References: https://www.druva.com/blog/understanding-rpo-and-rto/

QUESTION 31

A customer is interested in purchasing an IBM TS7650G ProtecTIER Gateway for its production site and one for replication at its DR site. The DR site is a target only site.

How is the cost of the solution affected by the replication?

- A. ProtecTIER replication is included with base license.
- B. ProtecTIER replication is included with hardware and no license is required.
- C. ProtecTIER replication licensing is required at both sites.
- D. ProtecTIER replication licensing is required at the primary site only.

Correct Answer: C Section: (none) Explanation



Explanation/Reference:

Explanation:

You must have a license for the replication feature for each ProtecTIER server in the replication grid.

References: https://www.ibm.com/support/knowledgecenter/en/STVRB7 3.2.0/ts7650ipg replication.html

QUESTION 32

A mainframe customer us considering moving from a native tape environment to a virtualized environment across two sites. A study has shown that it needs more than one IBM TS7700 at each site for performance and capacity reasons.

What is the benefit of using IBM TS7700 hybrid grid?

- A. It allows the customer to write data to the optimal storage hardware for each workload type.
- B. It allows clusters to connect using both FC and IP networks.
- C. It provides double the number of logical volumes.
- D. It permits a combination of IBM TS1130 and IBM TS1140 drives in one cluster.

Correct Answer: A



Section: (none) Explanation

Explanation/Reference:

Explanation:

All TS7700 models can coexist in a grid. If only a disk and a tape-attached model are combined, that configuration is called a hybrid grid.

QUESTION 33

A cloud service provider is looking to provide a scalable solution that provides quality of service capabilities, ease of management, deduplication, and integration with OpenStack and VMware while providing sub-millisecond response time.

Which solution should the technical specialist recommend?

A. IBM Storwize V5010

B. IBM FlashSystem 900

C. IBM FlashSystem A9000R

D. IBM Spectrum Scale

Correct Answer: C Section: (none) Explanation



Explanation/Reference:

Explanation:

IBM FlashSystem A9000 can use the well-established IBM code base for OpenStack and REST API support.

IBM Spectrum Control Base V3.0 allows a simplified deployment and efficient integration of IBM FlashSystem A9000 with the VMware vCloud suite.

The FlashSystem A9000R data reduction node implements data deduplication and compression functions.

A9000 provides consistent and predictable microsecond response times and simplicity that you need.

References: http://www.redbooks.ibm.com/redpapers/pdfs/redp5325.pdf

IBM FlashSystem A9000 Product Guide

QUESTION 34

A customer's compliance department requires that data is kept for ten years. The data must be available as needed, and the customer must ensure that the data cannot be modified.

Which technology should the specialist recommend?

A. NVMe flash



- B SFD drives
- C. NL-SAS drives
- D. WORM tape cartridges

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

Write-once, read-many (WORM) tape cartridge characteristic. WORM format pervades the entirety of every WORM cartridge. The WORM tape media is formatted to give every block on a WORM cartridge write-once, read-many protection. Additionally, the cartridge memory (CM) has a WORM indicator byte in the cartridge type field.

Incorrect Answers:

A: NVM Express (NVMe) or Non-Volatile Memory Host Controller Interface Specification (NVMHCI) is a logical device interface specification for accessing nonvolatile storage media attached via a PCI Express (PCIe) bus. The acronym NVM stands for non-volatile memory, which is commonly flash memory that comes in the form of solid-state drives (SSDs).

B: An SED is a self-encrypting hard drive with a circuit built into the disk drive controller chip that encrypts all data to the magnetic media and decrypts all the data from the media automatically. All SEDs encrypt all the time from the factory onwards, performing like any other hard drive, with the encryption being completely transparent or invisible to the user.

References: https://www.ibm.com/support/knowledgecenter/en/STPRH6/com.ibm.storage.drives.doc/con_3592ipg_worm_characteristics.html

QUESTION 35

A customer has an existing IBM XIV Gen3 solution with 3 TB drives and nine modules. While performance is acceptable, the customer wants to increase the performance of small-block reads. The current nine modules are running at 60% of capacity.

Which solution should the technical specialist recommend?

- A. Add the SSD caching option on five modules.
- B. Add the SSD caching option on all nine modules.
- C. Add IBM Spectrum Control Software with an IBM FlashSystem 900.
- D. Add three mode data modules to improve performance.

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

Explanation:

SSD Caching improves small-block random read performance. SSD Caching in the XIV system can improve performance of any workload that is suffering from high latency due to a high amount of small-block random read misses.

Consider a situation where you do not have an XIV system yet, but you want to know whether you might benefit from by extending the XIV with SSD Caching. On most storage systems, you can inspect I/O statistics and determine whether a workload can benefit from SSD Caching. If the storage system has granular reporting, you can take the following steps:

Sort your workload by read and write percentages.

The read portion of the workload can potentially benefit from the SSD Caching. A typical candidate workload for SSD Caching consists of 80% reads and 20% writes.

Etc.

References: http://www.redbooks.ibm.com/redpapers/pdfs/redp4842.pdf
Solid-State Drive Caching in the IBM XIV Storage System (May 2012), page 20

QUESTION 36

When implementing disk encryption on an existing IBM TS7700, which action does a client need to take for the existing virtual volumes to be encrypted after the encryption feature is enabled?

- A. No additional customer action is required once encryption is enabled.
- B. The copy refresh command must be issued for each of the existing volumes.
- C. Any existing volumes will have to expire and be reused before being encrypted.
- D. The customer must assign existing virtual volumes with a new encryption policy.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

An encryption policy configuration is the set of rules, or policies, that specify which volumes are to be encrypted.

References: https://www-01.ibm.com/support/docview.wss?uid=ssg1S7005315&aid=1 IBM TS7700 Version 4 Release 1, Introduction and Planning Guide, page 123

QUESTION 37

How does an IBM XIV System provide a guarantee of consistent performance even under the most dynamically changing elastic cloud workload environments?



- A. Built in performance monitoring of key resources
- B. Support for multiple versions of OpenStack software
- C. Use of a distributed grid architecture
- D. Capacity on Demand addition of useable storage

Correct Answer: C Section: (none) **Explanation**

Explanation/Reference:

Explanation:

IBM XIV Cloud Storage for Service Providers, or client hosted cloud solutions require elastic, rapid response, and dynamic demand that is captured within XIV's 485 TB linear scalability, and the immediate and automatic redistribution, without interruption, of added capacity. The grid design stripes data across all modules and disks, incorporating data redundancy for consistent and predictable I/O performance that is always load balanced.

Incorrect Answers:

D: With Capacity on Demand (CoD) you effectively buy a certain amount of capacity up front but also get up to 3 more modules shipped with the machine. You can start using this extra capacity when your business requirements demand it, at which point you will be asked by IBM to purchase it. The advantage here is that you physically get a bigger machine up front with all the performance benefits that bestows, plus you don't have to contact IBM to start using that extra capacity. References: http://www.redbooks.ibm.com/abstracts/tips1238.html?Open

__.com

QUESTION 38

A customer with a minimum IBM XIV configuration is upgrading to a full rack and plans to add SSDs for performance.

How many SSDs would be added during this upgrade?

- A. 12
- B. 9
- C. 6
- D. 15

Correct Answer: B Section: (none) **Explanation**

Explanation/Reference:

Explanation:



A minimally populated rack for models 281x-114 and 281x-214 contains three data modules and three interface modules, for a total of six modules. A fully populated rack contains nine data modules and six interface modules, for a total of 15 modules.

References: https://www.ibm.com/support/knowledgecenter/en/STJTAG/com.ibm.help.xivgen3.doc/Gen3/PG/xiv pln3rackconfigurations.html

QUESTION 39

A customer has locations in Singapore, London, and Denver and is considering IBM Spectrum Scale for its unstructured data.

How does IBM Spectrum Scale benefit this customer?

- A. It provides enterprise grade encryption.
- B. It is a cloud-only offering.
- C. It is a product with native CIFS support.
- D. It offers a global namespace.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

IBM Spectrum Scale provides a global namespace.

a clobal namespace

References: https://www.ibm.com/support/knowledgecenter/en/STXKQY 4.2.1/com.ibm.spectrum.scale.v4r21.doc/bl1ins intro.htm

QUESTION 40

Which solution meets a customer's requirements for 100,000 IOPS, lowest latency, and maximum of 30 TB of raw capacity for an Oracle database?

- A. IBM FlashSystem A9000
- B. IBM Storwize V7000F
- C. IBM FlashSystem V9000
- D. IBM FlashSystem 900

Correct Answer: D Section: (none) Explanation

Explanation/Reference:



Explanation:

IBM FlashSystem 900 is designed to accelerate the applications that drive business – like those using an Oracle Database.

IBM FlashSystem 900 can scale usable capacity from as low as 2 TB to as much as 57 TB in a single system.

FlashSystem 900 delivers Tier 0 top application performance with up to 1.1 million 100% random read IOPS and 600,000 100% random write IOPS.

Incorrect Answers:

C: IBM FlashSystem V9000 is designed to accelerate all types of applications and infrastructures, but it is most often deployed to support high-performance database applications such as those based on Oracle Database

Up to 32 PB of external storage can be managed by a single IBM FlashSystem V9000 array.

References: https://www.ibm.com/us-en/marketplace/flash-storage

QUESTION 41

What should the technical specialist explain when describing the addition of grid elements to an IBM FlashSystem A9000R?

- A. Up to 12 MicroLatency modules can be attached to a grid element.
- B. Six elements must be grown to nine elements initially.
- C. Element interface options must be the same type.
- D. MicroLatency module size can be intermixed.



Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

Grid elements installed must all be the same type (interface options and MicroLatency module size). An intermix of interface options or MicroLatency module capacities is not supported.

Note: Two grid controllers and one flash enclosure are combined to make one grid element.

Capacity, caching, and processing power are added at the same time by adding in one or more grid elements to scale up.

IBM Flash System A9000R consists of 2 - 6 grid elements, where a partially populated rack (2 - 5 grid elements) is expanded by adding grid elements to the maximum number of six-grid elements.

Incorrect Answers:

A: Each flash enclosure includes 12 flash modules (MicroLatency modules), battery modules, power supplies, and two fully redundant canisters,



B: IBM Flash System A9000R consists of 2 - 6 grid elements.

D: The capacity of all MicroLatency modules across all grid elements in IBM FlashSystem A9000R must be the same.

References: http://www.redbooks.ibm.com/redpapers/pdfs/redp5326.pdf

IBM FlashSystem A9000R Product Guide, page 10

QUESTION 42

A customer has a two-frame IBM TS4500 Tape Library with 24 IBM TS1150 drives. The L frame is the left-most frame and the customer wants to add slots for 1100 cartridges. The available physical space in the data center is limited, so high density (HD) frames are needed. The customer has some existing IBM TS3500 storage frames that could be repurposed.

What does the customer need to understand about the upgrade?

A. The IBM TS3500 storage frames must be installed to the right of the L frame. B.

A redeployed IBM TS3500 storage frame must be the last (right-most) frame.

- C. An IBM TS3500 storage frame must be upgraded to HD2 before it can be redeployed.
- D. One IBM TS3500 storage frame may be installed and must be frame position one.

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

Explanation:

Leverage flexibility that enables the library to grow from both the right and the left side of the first L frame since models can be placed in any active position.

References: https://www.ibm.com/us-en/marketplace/ts4500

QUESTION 43

A customer has an IBM TS7760 in one data center and is nearing the default limit of 1 million logical volumes defined. The customer is now installing a second IBM TS7760 and creating a two-way grid.

The customer states that it does not need to purchase any more logical volume feature codes because the new cluster in the second data center provides another 1 million volumes once the grid is enabled.

What should be explained to the customer?

- A. Once any grid is implemented with the latest code levels, there are 4 million logical volumes available by default.
- B. Adding grid members does not increase the number of logical volumes available without purchasing additional features.
- C. The 2 million logical volumes will be made available only after running a full copy refresh.
- D. The extra logical volumes are defined for contingency even through there will be twice as many available volumes.



Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 44

Which element of business continuity is employed by creating nightly flash copies at the primary data center?

- A. Continuous data protection
- B. Archive strategy
- C. Backup strategy
- D. HyperSwap

Correct Answer: C Section: (none) Explanation





QUESTION 45

A customer has an IBM Spectrum Virtualize environment as part of the IBM Spectrum Storage Suite. Snapshot is frequently used for short-term backups of databases. Increases in the database size have created the need for an additional storage footprint to store short-term backups, but capital expenses are on hold. What should the technical specialist recommend?

- A. Purchase a high density expansion for the IBM San Volume Controller.
- B. Leverage IBM Spectrum Protect Snapshot.
- C. Install IBM Spectrum Scale
- D. Implement Transparent Cloud Tiering

Correct Answer: C Section: (none) Explanation

Explanation/Reference:



QUESTION 46

Which IBM centralized key management software supports the IBM DS8886 storage system?

- A. Enterprise Secure Key Manager
- B. SafeNet KeySecure
- C. Security Key Lifecycle Manager
- D. qCrypt Key

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Reference: https://www.google.com/url?

sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwidr9KfgMTbAhVCXSsKHbBXD4QQFggmMAA&url=https%3A%2F% 2Fwww.redbooks.ibm.com%2Fredpapers%2Fpdfs%2Fredp5344.pdf&usg=AOvVaw1U5WnyMO2loBMK0Xfbi4sv

QUESTION 47

Which feature of the IBM XIV provides a benefit for analytic workloads?

- A. Multiple RAID layers
- B. Flash Tier
- C. Bluemix integration
- D. Data distribution

Correct Answer: D Section: (none) Explanation

Explanation/Reference:







https://vceplus.com/

QUESTION 48

What is the default configuration of a RAID protection level in an IBM DS8884 HPFE that affects the usable capacity?

- A. RAID-10
- B. RAID-1
- C. RAID-5
- D. RAID-6

Correct Answer: D Section: (none) Explanation



Explanation/Reference:

QUESTION 49

An IBM TS4500 has experienced I/O errors that have prevented moving the library into production. IBM has verified that the configuration is valid and performed the replacement of multiple parts.

What is the next step the technical specialist should perform?

- A. Facilitate a meeting with IBM and customer executives to discuss available options to resolve the situation.
- B. Escalate the issue through the complaint process (CeritsSit) and explain this process and next steps to the customer.
- C. Perform an in-depth problem analysis and follow up with appropriate actions to resolve the issue.
- D. Conduct a workshop with customer system administrators and IBM technical field support representatives to jointly resolve the problem.

Correct Answer: C



Section: (none) Explanation

Explanation/Reference:

QUESTION 50

A customer has multiple tiers of storage, is experiencing high growth, and has issues with managing a complex environment. Simplification, ease of management, and storage efficiencies are key requirements. Which product meets the customer's requirements?

- A. IBM Storwize V7000
- B. IBM FlashSystem 900
- C. IBM DS8884
- D. IBM Storwize V5020

Correct Answer: A Section: (none) Explanation

Explanation/Reference:



QUESTION 51

A customer is running synchronous replication on IBM Storwize V7000. What are the requirements for link bandwidth between data centers?

- A. Equal to the average write peak Mbps
- B. Greater than the average write peak Mbps
- C. Equal to the overall write peak Mbps
- D. Greater than the overall write peak Mbps

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 52



A customer has a 2-frame disk-only IBM TS7760 and is running out of capacity. There is a requirement to store an additional 2.4 PB of compliance data in the near future.

What is the lowest cost option to accommodate this new data?

- A. Add tape attach feature, a minimally configured IBM TS4500 library, and media.
- B. Add a second IBM TS7760 subsystem to accommodate 2.4 PB of data.
- C. Add IBM Spectrum Archive to work with the IBM TS7760.
- D. Implement Copy Export to migrate compliance data from IBM TS7760 to tape.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 53

A scientific customer is evaluating the IBM TS4500 against the Spectra Logic or Quantum Scalar i6000 and suggests that there is no difference since these vendors use IBM manufactured drives in their libraries. What is a key advantage of the IBM TS4500?

- A. Vendor agnostic media reporting
- B. Faster move time for tape mounts
- C. Standard 19" rack form factor
- D. Modular frames for expansion

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 54

Which term describes the maximum amount of data that could acceptably be lost following a disaster?

- A. Recovery Restoration Objective
- B. Recovery Time Objective
- C. Recovery Point Objective
- D. Recovery Manager Objective





Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Reference: https://searchsecurity.techtarget.com/answer/A-recovery-point-objective-RPO-vs-a-recovery-time-objective-RTO

QUESTION 55

A customer wants to replace a physical tape environment with a virtual tape library in its open systems environment and is concerned about performance. The solution architect needs to validate performance requirements for a proposed solution. Which tool is used to capture inputs for the IBM virtual tape library performance tool?

- A. Capacity Magic
- B. ProtecTIER Planner
- C. IBM Spectrum Scale Protocol Node Sizing Tool
- D. Batch Magic

Correct Answer: B Section: (none) Explanation



Explanation/Reference:

QUESTION 56

An existing IBM San Volume Controller DH8 cluster consists of two I/O groups with DH8 nodes running IBM Spectrum Virtualize 7.6. Performance analysis shows the cluster requires significant additional memory for the I/O workload. What is the first step the technical specialist should recommend?

- A. Upgrade the cluster to the recommended level of code
- B. Replace the existing cluster DH8 nodes with SV1 nodes
- C. Expand the cluster to 4 I/O groups using DH8 nodes
- D. Add additional memory to the existing DH8 nodes

Correct Answer: D Section: (none) Explanation

Explanation/Reference:



QUESTION 57

A customer has asked about the difference between standard RAID and declustered RAID architecture of IBM Spectrum Scale. Which advantage of declustered RAID should the technical specialist highlight to the customer?

- A. Dedicated spare drives
- B. Uses a subset of drives in the declustered RAID to rebuild data
- C. More predictable performance
- D. Load on drives is increased during array rebuild

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 58

A customer needs to control the rapid growth of its database environment while providing the highest performance and lowest latency. Which solution satisfies the customer's requirements while providing the best total cost of ownership?

- A. IBM Spectrum Scale
- B. IBM DS8886
- C. IBM XIV with SSD
- D. IBM FlashSystem V9000

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 59

A customer has acquired a variety of multi-vendor storage systems. The customer would like to implement a comprehensive solution that can significantly improve monitoring, automation and analytics capabilities for this environment. Which IBM solution provides these capabilities?

- A. IBM Spectrum Control Advanced Edition
- B. IBM Spectrum Control Base Edition



C. IBM Spectrum Copy Data Management

D. IBM Spectrum Accelerate

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://www.ibm.com/analytics/products/spectrum-control-advanced/

QUESTION 60

A customer has an IBM SAN Volume Controller cluster with two CF8 nodes that contain one four-port Fibre Channel card. The customer desires to replace these two nodes with two new SV1 nodes running compression. The customer requires that this upgrade occurs without downtime. Which step is needed first to ensure success of this upgrade?

- A. Ensure the new SV1 nodes have one expansion enclosure with SSD drives.
- B. Make sure there are at least two Fibre Channel cards in the SV1 Nodes.
- C. Ensure the CF8 nodes are running at least software version v7.7.1.
- D. Determine if the new SV1 nodes have a compression accelerator.

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 61

Which resource informs a storage specialist if a Technical and Delivery Assessment (TDA) has to be done?

- A. Systems Assurance Product Review Guide
- B. IBM Pre-sale TDA Checklist
- C. Trigger Criteria and Designated Product List
- D. Digital Techline Center

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

QUESTION 62

Which simple, non-intrusive process should a technical specialist recommend to obtain an overview of the storage environment?

- A. Visual Storage Intelligence study
- B. IBM Spectrum Control Base
- C. Disk Magic study
- D. IBM Spectrum Control Advanced

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 63

An IBM Spectrum Protect customer is considering purchase of IBM Spectrum Protect for Virtual Environments for its large VMware implementation. The customer also needs to archive data to tape. The customer desires to consolidate its diverse software portfolio of multi-vendor solutions to handle storage monitoring and provisioning.

Which solution should the technician discuss with the customer?

- A. IBM Spectrum Protect Suite
- B. IBM Virtual Storage Center
- C. IBM Cloud Object Storage
- D. IBM Spectrum Storage Suite

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 64

A customer has a VMware environment with host resource utilization concerns. The customer wants to overcome this issue when purchasing the next storage device.

Which IBM XIV storage hardware integration capability does this customer require?



- A. vStorage APIs for Array Integration (VAAI)
- B. vStorage APIs for Multipathing (VAMP)
- C. vStorage APIs for Site Recovery Manager (VASRM)
- D. vStorage APIs for Data Protection (VADP)

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 65

A potential customer wants to implement a 65 TB repository solution for its open systems backup environment. The customer's existing storage has 90 TB available. Scalability with future clustering and replication is a very important requirement. Which model meets the customer's requirements?

- A. IBM TS7650G ProtecTIER Gateway
- B. IBM TS7620 ProtecTIER Appliance Express
- C. IBM TS7740 VTL
- D. IBM TS7760 VTL

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 66

Which solution allows the greatest density per unit of rack space?

- A. IBM DS8886
- B. IBM Elastic Storage Server
- C. IBM FlashSystem 900
- D. IBM Storwize V7000F

Correct Answer: B Section: (none)





Explanation

Explanation/Reference:

QUESTION 67

A client has a large Intel server farm and is using IBM Spectrum Virtualize to present volumes to the servers. The existing backend storage is Dell EMC VNX5800. The client is adding a new VNX5800 storage system and wants to enable volume mirroring. What can the client do to improve availability utilizing the new storage?

- A. Enable VMware Virtual Volumes (VVOL) support
- B. Implement IBM HyperSwap
- C. Mirror volumes with Dell EMC SRDF
- D. Place the new storage in a hybrid disk group

Correct Answer: B Section: (none) Explanation

Explanation/Reference:



QUESTION 68

How does the integration of IBM FlashSystem with IBM Spectrum Scale improve analytic environments?

- A. Enables Spectrum Scale applications to share common data pools.
- B. Allows storage of metadata on flash to reduce latency.
- C. Provides resource management across a range of physical media types and data protocols.
- D. Creates replicated copies of data for high availability and disaster recovery.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 69



As part of a customer data management solution, it is necessary to store unused data on a low cost solution. A tape library provides low cost, but the customer's access to write to tape directly is denied.

Which recommendation enables the customer's application to access the tape devices?

- A. Implement IBM Spectrum Archive Single Drive Edition on all IBM supplied LTO-5, LTO-6, or LTO-7 drives in the library.
- B. Implement IBM Spectrum Virtualize with IBM Spectrum Archive enabled, allowing IBM LTO Drives to act as disks.
- C. Implement IBM TS7760 with IBM Spectrum Archive, allowing management of tape and VTL disk under a single controller.
- D. Implement IBM Spectrum Archive using LTO-7 or IBM TS1150 tape drives in the library.

Correct Answer: D Section: (none) **Explanation**

Explanation/Reference:

QUESTION 70

A customer has expressed difficulty in proactively monitoring and reviewing performance data for multiple core-edge topology SAN fabrics consisting of IBM branded SAN switches. CEplus

Which tool provides this capability?

- A. IBM Storage Management Tool
- B. IBM Storage Configuration Manager
- C. IBM Network Advisor
- D. Brocade SAN Health

Correct Answer: C Section: (none) **Explanation**

Explanation/Reference:

QUESTION 71

Which storage solution should the technical specialist propose to a customer with a large VMware environment and an IBM System z?

- A. IBM Storwize V7000
- B. IBM Spectrum Scale



C. IBM DS8886

D. IBM Spectrum Accelerate

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 72

A customer has large capacity growth requirements and is concerned about the ability to redistribute the data. The customer experiences long delays in deployment with its current storage vendor.

Which storage system meets the customer's requirements?

A. IBM DS8888

B. IBM FlashSystem V9000

C. IBM ProtecTIER TS7650G

D. IBM FlashSystem A9000R

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

QUESTION 73

A customer with NAS and block storage is looking at IBM Software-Defined Storage as a means to improve storage efficiency within a data center. Which product from the IBM Software-Defined Storage Control Plane will help the customer?

A. IBM Spectrum Protect

B. IBM Spectrum Archive

C. IBM Spectrum Accelerate

D. IBM Spectrum Virtualize

Correct Answer: A Section: (none) Explanation



Explanation/Reference:



https://vceplus.com/

