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Vendor: IBM

Exam Code: 000-451

Exam Name: IBM Midrange Storage Technical Support
V3

Version: Demo

QUESTION NO: 1

On the Storwize V7000, which IBM utility analyzes the expected compression savings for an existing volume containing data considered for compression?

- A. Comprestirate
- B. Comprestimator
- C. Comprestimetric
- D. Comprestanalyzes

Answer: B

Explanation:

QUESTION NO: 2

A current IBM storage customer has an existing SAN environment and now requires encryption in flight. The environment today consists of a large variety of older disk and tape systems.

What is the most cost effective way to meet this requirement?

- A. Install SAN24B-5 switches for the SAN.
- B. Install SAN32B-E4 switches for the SAN.
- C. Add encryption capability to the existing disk and tape systems in the SAN.
- D. Do a product refresh of the environment with a new system that supports encryption

Answer: B

Explanation:

QUESTION NO: 3

The customer has a single site NAS environment running on EMC hardware with a capacity of 100 TB. They want to replace this and add an additional 100 TB capacity.

The new system would mirror to a DR site over IP. They also want to add multi-tenancy to the solution.

What IBM solution would meet these requirements?

- A. N6240

- B. Storwize V7000
- C. SAN Volume Controller
- D. Storwize V7000 Unified

Answer: A

Explanation:

QUESTION NO: 4

A customer has an application that drives a high write workload (>50% of IOs are writes).

Assuming the use of 10000 rpm or 15000 rpm SAS drives, what RAID type would be best suited for this application in a new design?

- A. RAID 4
- B. RAID 5
- C. RAID 6
- D. RAID 10

Answer: D

Explanation:

QUESTION NO: 5

A customer has an installed DS3524 and requests advice on how to add capacity to an existing logical drive. The technical specialist advises that hard drives need to be added to the array group first to provide the capacity to do the update.

What operations are performed within the DS3524 operating system to achieve the upgrade?

- A. Dynamic RAID migration
- B. Dynamic Array Expansion only
- C. Dynamic Volume Expansion only
- D. Dynamic Array Expansion and then Dynamic Volume Expansion

Answer: D

Explanation:

QUESTION NO: 6

The Storwize V7000 Real-time Compression is best suited for which filetype?

- A. Video files
- B. Database files
- C. Encrypted file
- D. Compressed files

Answer: B

Explanation:

QUESTION NO: 7

Which statement is true about disk extents in Storwize V7000?

- A. Extent size directly impacts the maximum volume size
- B. MDisks in a storage pool can have different extent sizes
- C. All MDisks in a storage pool have the same number of extents
- D. Extent size is common across the system and cannot be changed

Answer: A

Explanation:

QUESTION NO: 8

A cost sensitive customer requires a tape library solution with four LTO drives and 40 tape cartridge slots.

Which of the following products best fits the requirement?

- A. TS2900
- B. TS3100
- C. TS3200
- D. TS3310

Answer: C

Explanation:

QUESTION NO: 9

A customer wants to implement a high availability solution split across two remote sites located 1 km apart. They are considering one dual node N series system

What should the technical specialist recommend?

- A. N3220-A22andSnapMirroroverIP
- B. N6240-C21 and SnapMirror over FCP
- C. N6240-E21 and Fabric MetroCluster
- D. N3240-A24 and Stretch MetroCluster

Answer: C

Explanation:

QUESTION NO: 10

A customer wants to monitor and manage their IBM storage systems' configuration and performance. Which of the following products would meet their needs?

- A. IBM Systems Director
- B. SAN Volume Controller
- C. Tivoli Storage Manager
- D. Tivoli Storage Productivity Center

Answer: D

Explanation:

QUESTION NO: 11

A customer has HP and EMC midrange storage systems. Their main concern is that they have multiple management applications for these systems and they want to be sure they have efficient utilization of their storage.

Which of the following IBM products would assist with consolidation and meet their needs?

- A. Easy Tier
- B. IBM Systems Director
- C. Storwize V7000 Unified
- D. TS7610ProtectTIER Appliance

Answer: C

Explanation:

QUESTION NO: 12

As part of a customer data management solution, it is necessary to store unused data on a low cost device to achieve the necessary cost benefit. While a tape library solution would provide low cost, the customer application is not capable of writing directly to tape.

What recommendation should the technical specialist make to allow the POSIX capable application to access tape devices?

- A.** Implement IBM LTFS Library Edition using LTO-5 or TS1140 tape drives in the library
- B.** Implement SAN Volume Controller with LTFS enabled, allowing IBM LTO drives to act as vdisks
- C.** Implement IBM LTFS Single Drive Edition on all IBM-supplied LTO-4 or LTO-5 drives in the library
- D.** Implement ProtecTIER with LTFS, allowing the management of tape and VTL disk under a single controller

Answer: A

Explanation:

QUESTION NO: 13

A technical specialist is discussing the benefits of a PureFlex solution with the CIO and IT Director of a prospective customer.

Which benefit will be most attractive in the initial meeting?

- A.** Ease of management and monitoring
- B.** Support for half-wide and full-wide nodes
- C.** Support for VMware, Linux KVM and PowerVM hypervisors
- D.** Support for FCP, iSCSI, InfiniBand and FCoE network options

Answer: A

Explanation:

QUESTION NO: 14

The customer is currently running a mixed Windows and UNIX SAN environment with 100 TB of capacity on old EMC CLARiiON hardware. They want to add an additional 100 TB of new disk capacity within their limited rack space, and also utilize the existing CLARiiON disk for a combined 200 TB capacity. The customer does not require NAS connectivity but is interested in implementing FCoE into their environment.

Which IBM solution would best meet their needs?

- A. DS5020
- B. Storwize V7000
- C. SAN Volume Controller
- D. Storwize V7000 Unified

Answer: B

Explanation:

QUESTION NO: 15

The RAID functionality for the Storwize V7000 came from which IBM storage product?

- A. DS8000
- B. N series
- C. XIV system
- D. SAN Volume Controller

Answer: A

Explanation:

QUESTION NO: 16

On the Storwize V7000 Unified what feature can automatically move files to separate tiered pools of storage without disrupting access to hosts?

- A. Easy Tier
- B. Compression
- C. Quality of Service
- D. Active Cloud Engine

Answer: D

Explanation:

QUESTION NO: 17

A prospect is considering a single chassis PureFlex.

Which of the following business pressures could be reduced with the installation of PureFlex?

- A. Employing more cost effective open products
- B. Deploying applications faster for quicker time to market
- C. Reduce cost management of zBX, System x, and Power servers
- D. Top-of-rack (TOR) switches flattens the network to reduce management costs

Answer: B

Explanation:

QUESTION NO: 18

From a file sharing perspective, which of the following is a competitive advantage of the Storwize V7000 Unified compared to EMC VNX and NetApp in 7-mode?

- A. Multipath failover
- B. CIFS and NFS support
- C. Deduplication of the data
- D. Active/Active engines with shareable namespace

Answer: D

Explanation:

QUESTION NO: 19

A customer comments that they would like to implement a storage management solution that can monitor their entire storage environment via SMI-S. They have a combination of EMC, NetApp and IBM storage.

Which solution best meets their needs?

- A. OnCommand Core
- B. Tivoli Storage Manager
- C. Tivoli Storage Productivity Center
- D. System Storage Productivity Center

Answer: C

Explanation:

QUESTION NO: 20

What characteristics do iSCSI and FCoE have in common?

- A. Both are limited to 1 Gbps traffic
- B. Both require a gateway function, usually called an FC Forwarder (FCF)
- C. Both include IP headers and Ethernet (or other media) headers with every frame that adds payload
- D. Both protocols can use the Converged Enhanced Ethernet (CEE) to deliver lossless traffic over Ethernet

Answer: D

Explanation:

QUESTION NO: 21

Which of the following statements is true about the Storage Tier Advisor Tool (STAT) utility when used with the IBM Storwize V7000?

- A. STAT is used to view performance data that is collected by Easy Tier.
- B. STAT compiles usage information about volumes and pools to produce upgrade forecasts.
- C. STAT is a command line utility that collects the latest five minutes of performance data
- D. Tivoli Storage Productivity Center uses STAT to collect performance statistics from the Storwize V7000.

Answer: A

Explanation:

QUESTION NO: 22

A customer has two locations, each with a storage system connected to a Fibre Channel SAN.

They want to replicate between the storage systems across their WAN, and the storage systems can replicate only over Fibre Channel.

Which of the following protocols would be used?

- A. FCIP
- B. iSCSI
- C. Ethernet
- D. Fibre Channel

Answer: A

Explanation:

QUESTION NO: 23

Which statement best describes Information Lifecycle Management?

- A. The automatic placement of frequently used data in RAM or SSD-as-cache in the application access life cycle.
- B. The rotation scheme of tape media to hold backup generations given the limited life cycle of tape cartridges.
- C. The application of policies and tools to align the business value of information with the most appropriate storage.
- D. The automatic promotion or demotion of data across storage tiers based on performance analytics on access frequency.

Answer: C

Explanation:

QUESTION NO: 24

A customer has a large VMware estate on a single site and is planning to add a second location. The site is only 20 km away, and they are interested in being able to use vMotion to move guest operating systems between hosts across the two sites.

What solution would support this requirement?

- A. DS5000 with synchronous mirroring
- B. SAN Volume Controller stretched cluster with mirroring

- C. Storwize V7000 or SAN Volume Controller with Metro Mirror
- D. Storwize V7000 or SAN Volume Controller with Global Mirror

Answer: B

Explanation:

QUESTION NO: 25

During a requirements gathering exercise, a customer explains that their environment is synchronously replicated between two sites. Considering next year's growth as well, the workload being replicated will peak at 150 MB/s with approximately two-thirds of that workload being reads.

What is the minimum bandwidth required between the two sites?

- A. 30 MB/s
- B. 50 MB/s
- C. 100 MB/s
- D. 150 MB/s

Answer: B

Explanation:

QUESTION NO: 26

The Easy Tier feature is available on which products?

- A. XIV System, DS3500, DS5000
- B. N series, DCS3700, Storwize V7000
- C. DS8000, SAN Volume Controller, Storwize V7000
- D. DCS3700, SAN Volume Controller, Storwize V7000

Answer: C

Explanation:

QUESTION NO: 27

Which of the following is true about volume compression in a SAN Volume Controller?

- A. Compressed volumes can be used to create Full, Incremental, and Nocopy flashcopies.
- B. If a storage pool contains a compressed volume then every volume in that pool is compressed.
- C. Compression should never be used for active live data such as an online transaction processing database.
- D. 25% of the virtual capacity of each compressed volume must be reserved as working space for re-expansion of compressed data.

Answer: A

Explanation:

QUESTION NO: 28

A customer has a Storwize V7000 and they have the need to migrate local volumes between storage pools.

Which function can be used for migrating local volumes between storage pools?

- A. FastBack
- B. Volume Mirroring
- C. FlashCopy Manager
- D. Inter-Cluster Metro Mirror

Answer: B

Explanation:

QUESTION NO: 29

A customer would like to see how performance has improved with the DS5020 compared to their existing DS4800 they are looking to replace.

Which tool would be used to help determine performance differences?

- A. Disk Magic
- B. Capacity Magic
- C. Storage Manager
- D. DS Capacity Planning Tool

Answer: A

Explanation:

QUESTION NO: 30

IBM System Storage DS3500 supports which of the following protocols?

- A. FC.CIFS.SAS
- B. FC. SAS. iSCSI C. FC. iSCSI. FCoE D. SAS. iSCSI. CIFS

Answer: B

Explanation:

QUESTION NO: 31

Where would the technical specialist find the clearance specification for a TS3500 Tape Library?

- A. Operator's Guide
- B. Introduction and Planning Guide
- C. System Storage Interoperation Center (SSIC)
- D. Standalone Solutions Configuration Tool (SSCT)

Answer: B

Explanation:

QUESTION NO: 32

An N series customer wants to recover their database volumes to a point in time. Which combination of N series features will accomplish this?

- A. Snapshot and SnapRestore
- B. SnapVault and SnapRestore
- C. SyncMirror and SnapRestore
- D. MetroCluster and SnapRestore

Answer: A

Explanation:

QUESTION NO: 33

Which RAID levels are supported on N series?

- A. RAID 0 and RAID 6
- B. RAID 4 and RAID DP
- C. RAID 0, RAID 1, RAID 5
- D. RAID 4, RAID 5, RAID DP

Answer: B

Explanation:

QUESTION NO: 34

A customer is having major issues backing up a Microsoft SQL Server database whose data is resident on a DCS3700 They are interested in point-in-time copies and integration with Tivoli Storage Manager.

What two products should the technical specialist recommend as a solution? (Select two)

- A. DCS3700 Remote Mirroring
- B. DCS3700 FlashCopy/VolumeCopy
- C. Tivoli Storage FlashCopy Manager
- D. Tivoli Storage Productivity Center for Data
- E. Tivoli Storage Manager for Storage Area Networks

Answer: B,C

Explanation:

QUESTION NO: 35

A customer has a requirement to begin archiving data for a lifecycle management initiative. The customer needs to use software for archiving and retrieving the data, and a magnetic tape library for long term retention where data must be protected from being overwritten. Initially there will be 7 TB of storage needed with a projected growth of 2 TB a year over the next two years. The technical specialist must develop a solution that will fit the above needs.

What software and hardware solution would meet the customer's requirements?

- A. Tivoli StorageManagerFastBackwithaTS3100LTa5libraryandWORMmedia

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