

## IBM 000-452 Exam Questions & Answers

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IBM 000-452 Exam Questions & Answers

Exam Name: IBM Storwize V7000 Technical Solutions V2

## **Exact-Exams**

### **QUESTION 1**

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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### **QUESTION 2**

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

- A. video files
- B. database files
- C. encrypted file
- D. compressed files

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### **QUESTION 3**

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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### **QUESTION 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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### **QUESTION 5**

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.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

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?



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- A. Easy Tier
- B. IBM Systems Director
- C. Storwize V7000 Unified
- D. TS7610 ProtecTIER Appliance

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 7**

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

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

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

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

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.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 11**

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

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  
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- 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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

Considering the TS7600 Appliance family with ProtecTIER V3.2, which of the following is a supported interface for host backup?

- A. Quick File System (QFS)
- B. Linear Tape File System (LTFS)
- C. Symantec Open Storage Interface (OST)
- D. Virtual Tape Library Emulation with SAS Interface

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 14**

Which distributed file system does the Storwize V7000 Unified use to store and retrieve files?

- A. DFS
- B. NFS
- C. NTFS
- D. GPFS

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

How is Real-time Compression licensed on the Storwize V7000?

- A. Per disk
- B. Per raw TB
- C. Per usable TB
- D. Per disk enclosure

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

Which of the following is a correct statement about supported tape drive technologies in a SINGLE frame TS3500 Tape Library?

- A. An intermix of LTO and 3592 IBM tape drive technologies is possible in one single TS3500 frame.
- B. There is no intermix of tape drive technologies or generations in a single frame TS3500 configuration.
- C. A TS3500 single frame configuration can contain only one IBM tape drive technology - but can host multiple generations of it.
- D. The TS3500 can intermix only dual-ported Fibre Channel based IBM tape drives with LTO and 3592 technology in one single frame.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 18**

Which disk system is included in IBM PureFlex?

- A. XIV
- B. DS8800
- C. DS3500
- D. Storwize V7000

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 19**

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

**Correct Answer: BC**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 20**

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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

What is the maximum number of I/O groups supported in a SAN Volume Controller clustered system?

- A. 1
- B. 2
- C. 3
- D. 4

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

A customer is considering real-time compression (RTC) for their highly available NAS environment with 1 GbE and 10 GbE connections. The primary requirement is no changes should be needed for their existing servers, applications, storage or network. The technical specialist been asked to present a general overview of real-time compression and an in-depth product briefing.

Which of the following products would be presented?

- A. IBM SONAS and Tivoli Storage Manager
- B. STN6800 Real-time Compression Appliance
- C. Storwize V7000 with Real-time Compression
- D. PureFlex with 16 Gbps switch Real-time Compression license

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

Which tool allows the technical specialist to see the components needed to perform an upgrade on a

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Storwize V7000 and get a list price of the costs?

- A. eConfig
- B. COMP database
- C. DS Capacity Planning Tool
- D. Standalone Solutions Configuration Tool (SSCT)

**Correct Answer: A**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

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

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

What tool should be used to size an IBM N series for performance?

- A. eConfig
- B. Disk Magic
- C. Capacity Magic
- D. System Performance Modeler

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

What is the competitive advantage of a Storwize V7000 solution compared to midrange disk systems from EMC, Dell, HP, HDS?

- A. only the Storwize V7000 provides 99.999% availability
- B. only the Storwize V7000 has thin provisioning as a standard feature
- C. only the Storwize V7000 can virtualize disk systems from other vendors
- D. only the Storwize V7000 can have SAS, FC, and solid-state drives installed in one cabinet

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

The exhibit shows a non-IBM tape library setup, where Fabric A, in addition to controlling tape drives 1 through

3, also controls the tape library controller. In the event of Fabric A loss, all control between host and library would be lost and all drives become inaccessible. With an equivalent IBM library, in the event of Fabric A failure, which drives would be affected?

- A. all drives would be inaccessible, as the only path to the controller is lost
- B. all drives would be accessible as IBM provides control paths via the tape devices meaning multiple control paths exist
- C. all drives would be accessible due to the redundant control path on Fabric B (all IBM libraries provide dual-path controllers as standard)
- D. drives 1 through 3 would be inaccessible, but drives 4-6 would continue to function due to the redundant control path on Fabric B (all IBM libraries provide dual-path controllers as standard)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 28**

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

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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 Storage Manager FastBack with a TS3100 LTO-5 library and WORM media
- B. Tivoli Storage Manager Extended Edition with a TS3100 LTO-5 Library and WORM media
- C. Tivoli Storage Manager FastBack with a TS3100 LTO-5 library and Standard LTO-5 Media
- D. Tivoli Storage Productivity Center for Data with a TS3100 LTO-5 library and WORM Media

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 29**

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)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

What is an RPQ?

- A. The RPQ process is to Request Promotional Quote (RPQ) for IBM goods and services.
- B. An RPQ is a customer request for non-standard IBM hardware, software or services offerings.
- C. RPQ is used to Receive Performance Queries (RPQ) by scripting the DS Storage Manager software.
- D. An RPQ is an IBM process to Resolve Possible Questions (RPQ) within a pre-sales TDA meeting with the customer.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

The customer is having a problem adding LUNs from a SAN-attached DS5020. The LUNs are showing up multiple times. The hosts are running Windows 2008 R2 Enterprise. How can this situation be resolved?

- A. install RDAC for DS5020
- B. check the default HBA settings
- C. install IBM MPIO Device Specific Module (DSM)
- D. install SDDDSM drivers and update HBA firmware

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 32**

A sales specialist is asked to provide a briefing for a customer and has been told that the data center implementation team will attend. When developing the agenda for this meeting, what area should receive the most focus?

- A. Strategic industry insight
- B. Cost savings and system efficiencies
- C. High level product plans and directions
- D. Detailed product descriptions and configurations

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

Which of the following would provide the annual power costs for an EMC VNX Series system?

- A. RAFS
- B. TCO<sub>now</sub>!
- C. Capacity Magic
- D. System Storage Product Guide

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 34**

A customer wants to purchase storage for a new messaging project to be implemented within the next nine months.

Which of the following would be the best question to ask FIRST?

- A. What speed disks does the customer want, and what form factor?
- B. What operating systems will attach, and what are the I/O requirements for the servers?
- C. Which backup vendor does the customer currently use and how often do they do a full backup?
- D. Which SAN vendor does the customer currently have, and what speed are the switches and directors?

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 35**

Which of the following best describes LTO-5 specifications for cartridge capacity and throughput with compression?

- A. 800 GB / 120 MB/sec
- B. 1.0 TB / 140 MB/sec
- C. 3.0 TB / 280 MB/sec
- D. 4.0 TB / 480 MB/sec

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**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 36**

A customer currently has 200 departmental servers with 1500 concurrent users providing home directories, and file and print services. Currently each server has internal storage. They are considering virtualizing the servers across several campus locations, and would like to provide consolidated storage to their users.

What features of the Storwize V7000 family meets the customer's requirement?

- A. ILM through GPFS
- B. Easy Tier Support with SSD

- C. Metro and Global Mirroring support
- D. Multiple block and file protocol support

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 37**

The sales specialist has an opportunity to recommend a new storage controller for a customer who has the following servers: Sun with Solaris, HP with HP-UX, x86 with Windows, and x86 with Linux. The customer has mentioned that "there are too many cables coming out of the back of our servers".

What can be concluded from this information?

- A. The customer might be interested in virtualizing the large number of servers using Storwize V7000 or SVC
- B. The customer might be interested in mixing data types such as CKD and FB due to the large number of different servers
- C. The customer data is mostly CKD format, and thus might be interested in fast storage like a Storwize V7000 with fast SAS drives
- D. The customer might be interested in a consolidated network solution that includes FCoE while the type of disk needed is still unknown

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 38**

A customer wants a NAS environment for both NFS and CIFS. The customer is concerned with the amount of rack space they will need for their environment. It is estimated that 100 disks will be needed. To efficiently use rack space which of the following will provide the best combination?

- A. To get the most dense package install the Storwize V7000 Unified file modules directly attached to the DCS3700.
- B. To get the most dense package install DCS3700 as storage behind Storwize V7000 Unified for both NFS and CIFS users to avoid extra Storwize V7000 expansion trays.
- C. To get the most dense package install DCS3700 as storage behind a Storwize V7000 Unified for the NFS requirements, and internal Storwize V7000 disks for the CIFS users.
- D. To avoid a complex environment with mixed storage install a Storwize V7000 cluster under the Storwize V7000 Unified to get enough disks for both NFS and CIFS environments.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 39**

A customer is in need of a new tape solution. They need a system that will provide a capacity of at least 100 TB with the ability to complete backups within 4 hours. Daily backups consist of video images that cannot be compressed.

What should the sales specialist recommend as the most cost effective solution?

- A. TS3100 with 2 LTO-5 drives
- B. TS3200 with 4 LTO-5 drives
- C. TS3310 with 2 LTO-5 drives
- D. TS3500 with 4 LTO-5 drives

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

As part of a consolidation plan, an insurance customer wants to automate their backup needs. The environment includes:

2 Power servers running AIX

4 System x servers running Windows 2008

1 System z server running z/OS

They have analyzed their bandwidth and capacity requirements, and will require 4 tape drives and approximately 100 TB cartridge capacity.

Which of the following would best meet their requirements?

- A. TS3310 with 4 TS1050 drives
- B. TS3310 with 4 TS1140 drives
- C. TS3500 with 4 TS1050 drives
- D. TS3500 with 4 TS1140 drives

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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