

IBM C4090-971

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IBM C4090-971

IBM Enterprise Storage Technical Support

Version 4.0

Exam A

QUESTION 1

What is the next step for a failed installation of an IBM TS4500 where there have been I/O errors that prevent placing the library into production even after replacement of multiple parts and verification of configuration definitions?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference:

ftp://public.dhe.ibm.com/software/tivoli_support/misc/STE/2011_08_03_AVKS_Tivoli_AVP_Overview_and_Enablement_for_GRT_EMEA.pdf

QUESTION 2

A customer is considering the purchase of an XIV system and wants the standard warranty.

What is the standard hardware warranty for this purchase?

- A. One year warranty with 9x5 same business day.
- B. Five year warranty with 24x7 response (dependent upon machine type).
- C. Two year warranty with 9x5 next business day response.
- D. One or three year warranty with 24x7 response (dependent upon machine type).

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

A customer is having difficulty with managing the heterogeneous storage infrastructure and tracking the performance of SAN-attached devices.

Which IBM product will resolve the customer's immediate concern?

- A. IBM Spectrum Virtualize
- B. IBM Spectrum Control
- C. IBM Director
- D. Fabric Manager

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

A customer has a single frame TS3500 with a L23 frame. There are five TS1150 drives and 100 tapes in this frame. The customer wants to add five LTO-6 drives to this TS3500.

What is the most cost effective solution for this customer?

- A. Add LTO-6 drives to a new D53 frame and add LTO media to the L23 frame.
- B. Add LTO-6 drives to the existing L23 frame and add the LTO media to a D53 frame.
- C. Add a D53 frame with LTO-6 drives and add the LTO media to a D53 frame.
- D. Add a L53 frame with LTO-6 drives and add the LTO media to a L53 frame.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www-03.ibm.com/systems/in/storage/tape/ts3500/>

QUESTION 5

A customer wants a new tape library. The customer currently uses LTO-4 tapes but has some older archive tapes on LTO-3.

What is the highest level tape drive the customer can install and still read the older archive tapes and write to current tapes?

- A. LTO-5
- B. LTO-6
- C. LTO-4
- D. LTO-3

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

A customer has asked about the RAID architecture of IBM Spectrum Scale.

Which two advantages of declustered RAID should you highlight to the customer? (Choose two.)

- A. Faster rebuild of data on failed drives
- B. Uses a subset of drives to rebuild data
- C. Load on drives is increased during array rebuild
- D. Dedicated spare drives
- E. More predictable performance

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

Which feature of the XIV system is a technical advantage over competitive storage arrays?

- A. SSD adaptive read caching
- B. Deduplication
- C. Encryption at any time
- D. Software bundled with IBM Spectrum Control

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference:

<https://www-03.ibm.com/press/us/en/pressrelease/46093.wss>

QUESTION 8

A customer has asked an IBM technical specialist about growth in I/O on its existing system. The specialist generated the following table:
Which tool was used to produce this table?

- A. ProtecTIER Planner
- B. Batch Magic
- C. Disk Magic
- D. Storage Tier Advisor Tool

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

Which upgrade is possible for a customer with IBM FlashSystem 840?

- A. Systems purchased with eight 2 TB flash modules can be expanded to twelve 4 TB flash modules.
- B. Systems purchased with eight 4 TB flash modules can be expanded to twelve 2 TB flash modules.
- C. Systems purchased with eight 4 TB flash modules can be expanded to twelve 1 TB flash modules.
- D. Systems purchased with eight 2 TB flash modules can be expanded to twelve 2 TB flash modules.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www.redbooks.ibm.com/technotes/tips1079.pdf>

QUESTION 10

Which drive type in the DS8870 should be selected for data that has been identified as inactive?

- A. Enterprise SAS
- B. Flash
- C. Nearline SAS
- D. DRAM

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

[http://www-01.ibm.com/common/ssi/ShowDoc.wss?](http://www-01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep_ca/1/877/ENUSZG12-0291/index.html)

[docURL=/common/ssi/rep_ca/1/877/ENUSZG12-0291/index.html](http://www-01.ibm.com/common/ssi/rep_ca/1/877/ENUSZG12-0291/index.html)

QUESTION 11

During a Technical Delivery and Assessment (TDA) for a DS8870, the solution architect was directed to use Disk Magic to size the solution.

What will Disk Magic provide in this situation?

- A. Modeling of a specific storage configuration
- B. Determine effective capacity of specific storage configuration
- C. Simulation of performance under varying conditions
- D. Resolution(s) to a performance problem

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

A customer is considering the Cisco MDS 9148 and the IBM SAN48B-5 SAN switches.

What are two key advantages for the IBM SAN48B-5 switch? (Choose two.)

- A. 10Gbps port support
- B. 1U of rack space
- C. 1Gbps port support
- D. Pay as you grow from 16 to 48 ports
- E. 16Gbps port support

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

A customer is looking to improve performance in its storage environment. The customer is considering adding SSD drives or a FlashSystem product to the environment.

Which IBM tool will help the customer understand the benefit in performance of these different technologies?

- A. Capacity Magic
- B. Disk Magic
- C. Storage Tier Advisor Tool
- D. TPC

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

How many ports from a full 15 module XIV Storage System are recommended initially to connect to an IBM Spectrum Virtualize Controller?

- A. 12
- B. 8
- C. 16
- D. 24

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

What is the minimum number of redundant key servers needed by multiple DS8870s when using disk encryption?

- A. 6

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

What is the most common initial benefit to data center economics of implementing an IBM FlashSystem?

- A. More servers
- B. More disk drives
- C. More power consumption
- D. More performance

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www-03.ibm.com/systems/es/resources/TSM03002USEN.pdf>

QUESTION 17

What should a storage specialist do to verify that a heterogeneous solution is supported by IBM?

- A. Verify the solution using IBM Red Books
- B. Check Systems Storage Interoperation Center
- C. Consult the installation guide
- D. Perform a proof-of-concept

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference:

[https://www-304.ibm.com/services/weblectures/dlv/Gate.wss?](https://www-304.ibm.com/services/weblectures/dlv/Gate.wss?handler=Default&sequence=2&customer=partnerworld&offering=cass&action=my_connect&embed=no&language=en)

[handler=Default&sequence=2&customer=partnerworld&offering=cass&action=my_connect&embed=no&language=en](https://www-304.ibm.com/services/weblectures/dlv/Gate.wss?handler=Default&sequence=2&customer=partnerworld&offering=cass&action=my_connect&embed=no&language=en)

QUESTION 18

A customer has experienced high drive failure and loss of data in its environment and is considering XIV to replace the existing storage.

Which XIV benefit should the technical specialist highlight to address this customer's concerns?

- A. IBM Advanced System Placement program
- B. Exception rebuild speed
- C. IBM Hyper-Scale
- D. Distributed cache

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

Which data type will have the best compression ration with Real-time Compression?

- A. Databases
- B. File and print
- C. JPEG images
- D. Encrypted data

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www.redbooks.ibm.com/redpapers/pdfs/redp4859.pdf>

QUESTION 20

Which XIV option addresses rapid data growth and financial concerns?

- A. Advanced System Placement

- B. IBM Global Financing
- C. Growth on Demand
- D. Distributed Data

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

What is needed to upgrade a TS7620 ProtecTIER Appliance from 5.4TB to 11TB physical capacity?

- A. The upgrade is a license key only.
- B. Power off the TS7620, add new drives, power on and assign capacity.
- C. Add disk drives to the TS7620 without powering off; the system will assign capacity automatically.
- D. There is no upgrade from 5.4TB to 11TB within one system.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

A customer has requested an IBM Spectrum Virtualize solution with capability to make it easy for users to create relevant and meaningful custom reports.

What should the solution architect propose to satisfy this requirement?

- A. Native IBM Spectrum Virtualize performance tool(s)
- B. Excel macros linked to storage API
- C. Svcmon with daily data collection
- D. IBM Spectrum Control

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

A customer has a single frame TS3500 tape library with 6 - 3592-E07 drives. A new open systems server was recently purchased and, because of budget constraints, the customer is considering less expensive LTO-6 drives while protecting investment in existing tape cartridges.

What is the most economical way to achieve this goal?

- A. Replace 3592 drives with LTO-6 drives in the existing frame as is.
- B. Add 6 LTO-6 drives in the existing frame.
- C. Replace the frame and add LTO-6 drives.
- D. Add 6 LTO-6 drives in a new frame.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www-03.ibm.com/systems/in/storage/tape/ts3500/>

QUESTION 24

A customer has several legacy storage arrays containing many hot spare disks. The customer has heard that the IBM XIV does not have any hot spares.

What should the technical specialist explain to the customer about the way the IBM XIV works?

- A. The IBM XIV has four hot spares per module to allow for multiple hot spare failures at one time.
- B. Legacy storage arrays with hot spares take hours to rebuild extending the failure window.
- C. The IBM XIV has two hot spare drives per module to handle failures.
- D. Each drive has spare capacity and spreads the data across the spare capacity of each drive.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

ftp://public.dhe.ibm.com/storage/disk/xiv/ibm_xiv_reliability_paper.pdf

QUESTION 25

A customer currently owns a Scalar LTO-5 SAS single drive autoloader. Planned future growth requires a tape library with capacity of four LTO-6drives and 40 data cartridges.

Which IBM product meets the requirement while minimizing impact on the budget?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

A customer's current storage environment includes both a 12 module XIV Gen3 and a DS5300 with 12 expansion drawers. The customer wants to migrate all workload from the DS5300 to the XIV.

Which two actions should the solution architect perform first? (Choose two.)

- A. Collect DS5300 and XIV performance data and model the cumulative workload.
- B. Migrate the DS5300 workload to the XIV using XIV migration capability.
- C. Gather and analyze capacity requirements and usage using the DS5300 and GUI.
- D. Collect DS5300 performance data and model the workload on a 12 module XIV.
- E. Migrate the DS5300 to the XIV using an IBM SAN Volume Controller with IBM Spectrum Virtualize software.

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

A customer needs to implement Easy Tier in its data center for better and faster performance.

Which IBM product should the technical specialist propose?

- A. SONAS
- B. XIV
- C. DS8870
- D. ProtecTIER TS7650G

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

A solution architect has determined the amount of spindles needed to satisfy performance and RAID level requirements for a DS8870.

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

- A. eConfig
- B. Disk Magic
- C. Capacity Magic
- D. STAT

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

A customer has a VMware environment and is limited in the number of hosts that can access a given LUN. This is causing a problem for the storage administrator. The customer wants to overcome this issue when purchasing the next storage device.

Which function within the storage hardware does this customer require?

- A. vStorage APIs for Storage Awareness
- B. Pluggable Storage Architecture
- C. Hardware Assisted Locking

D. Hardware Accelerated Move

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

Which resource informs a storage specialist if a TDA is mandatory or optional?

- A. IBM Pre-sale TDA Checklist
- B. Systems Assurance Product Review Guide
- C. TDA Discussion Guide
- D. IBM Trigger Criteria / Designated Product List

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference:

<ftp://ftp.software.ibm.com/software/mktsupport/techdocs/R08.pdf>

QUESTION 31

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 has a preference for an XIV based solution, but is concerned about migrating the existing data and boot volumes.

Which explanation best addresses the customer's concern?

- A. XIV has a built in capability to copy the existing data.
- B. XIV has both a vCenter and VAAI plug in.
- C. An IBM Spectrum Control must be included so that the existing storage can be virtualized and moved to the XIV.
- D. Thin provisioning on the XIV will reduce the necessary capacity of the XIV.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://searchstorage.techtarget.com/news/2240240643/IBM-rebrands-storage-as-IBM-Spectrum-with-an-eye-on-hybrid-cloud>

QUESTION 32

A customer is considering a storage consolidation project.

Which tool should you use to help the customer understand that the IBM solution will be more cost-effective than the competitors?

- A. IBM Systems Consolidation Evaluation Tool
- B. IBM System Storage Interoperation Center
- C. IBM ATS Server Consolidation Monitor
- D. IBM CompleteCenter

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

A customer is interested in controlling the rapid growth of its database environment while providing the highest performance and lowest latency.

Which solution satisfies the customer's requirements and provides the best Total Cost of Ownership?

- A. IBM FlashSystem 840
- B. DS8870
- C. XIV Gen3 with SSD
- D. IBM FlashSystem V840

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://searchstorage.techtarget.com/news/2240240643/IBM-rebrands-storage-as-IBM-Spectrum-with-an-eye-on-hybrid-cloud>

QUESTION 34

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

- A. IBM SmartCloudVirual Storage Center
- B. FlashSystem 840
- C. Storwize V3700
- D. XIV Gen3 with IBM Spectrum Protect

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference:

https://www.ibm.com/developerworks/community/blogs/storage_redbooks/entry/increase_your_cloud_potential_with_ibm_storage_integration_server?lang=en

QUESTION 35

Which type of business continuity does a customer provide who makes nightly flash copies at the primary data center?

- A. Disaster Recovery
- B. Continuous data protection
- C. Backup Strategy
- D. Global Mirror

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

A customer has an existing mainframe environment with a DS8870 attached. This frame is only partially populated. The customer is attaching existing IBM POWER servers that require a three- tier storage solution including SSDs. Electrical power is not readily available. Price is also a key criterion in making the decision.

Which addition to the existing system should be proposed to this customer?

- A. Add a Storwize V7000 in a new rack.
- B. Add IBM SAN Volume Controller along with IBM FlashSystem and Storwize V7000.
- C. Add disks to the DS8870.

D. Add IBM Spectrum Scale in front of the DS8870 along with additional disks in the DS8870.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www.redbooks.ibm.com/abstracts/sg248085.html?Open>

QUESTION 37

Which storage solution should you propose to a customer with a large VMware environment and one IBM System z?

- A. XIV
- B. SONAS
- C. DS88870
- D. Storwize V7000 Unified

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference:

http://www-03.ibm.com/systems/storage/disk/storwize_v7000/overview.html

QUESTION 38

A customer wants to implement its database with IBM Cloud Manager and OpenStack.

Which benefit will the customer realize?

- A. Three-site mirroring
- B. Exceptional performance for new work loads
- C. Runs on Power Linux
- D. Reduce capital expenditures and operational expenses

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

Which IBM Storage System can be directly attached to an IBM i partition on a POWER System?

- A. IBM XIV
- B. IBM FlashSystem 820
- C. IBM FlashSystem 840
- D. IBM DS8870

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www.redbooks.ibm.com/redbooks/pdfs/sg248189.pdf>

QUESTION 40

A customer's data center was constructed 15 years ago. Since then its growth has exceeded expectations and necessitated the deployment of a large number of servers, storage subsystems, and switches. The energy company is currently providing the maximum amount of electricity to the data center.

What should the IBM Technical Specialist do to enable the customer's continued ability to expand its computer and storage growth?

- A. Perform a consolidation study in order to reduce the energy used by the equipment in the data center.
- B. Determine how energy allocated to IT resources is used to produce business results.
- C. Help to relocate the existing equipment to a larger data center with increased capacity from the electric company.
- D. Replace the existing equipment with Energy Star compliant equipment to reduce energy requirements.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference: