

EMC

Exam Questions DES-1D12

Specialist - Technology Architect Midrange Storage Solutions Exam



NEW QUESTION 1

A customer has invested much time using the Dell PS Series Host Integration Toolkit (HIT) to integrate SAN snapshot protection with Microsoft SQL Server native snapshot technology. The customer expresses concern about whether Dell EMC SC Series cross-platform replication supports that capability. What should be your response?

- A. Recreate integration on the SC Series array and use only SC-to-SC replication for those volumes.
- B. Leverage the integration investment and use only PS-to-PS replication on those volumes.
- C. Cross-platform replication works with SC Series HIT integrations.
- D. Cross-platform replication works with PS Series HIT integrations.

Answer: B

NEW QUESTION 2

A customer requests a proposal for a new Dell EMC SC Series storage system with the following specifications:

IO type: Random
Existing data: 100 TB
Rate of change: 2 TB per day
Growth rate: 100 GB per day
Snapshot retention: 1 week
What storage capacity should be specified to scope the system with Tier 1 RAID 10 protection?

- A. 2.5 TB
- B. 4.5 TB
- C. 6.5 TB
- D. 8.5 TB

Answer: C

NEW QUESTION 3

What is a key feature of the Dell EMC Future-Proof Storage Loyalty Program for Dell EMC SC Series arrays?

- A. 4:1 Performance Guarantee
- B. 4 Year Satisfaction Guarantee
- C. 4:1 Reduction Guarantee
- D. 4:1 Efficiency Guarantee

Answer: D

Explanation:

Dell EMC Flash Storage Efficiency Guarantee Dell EMC promises our flash arrays will provide a logical usable capacity at least four times the usable physical capacity of your purchased drives —or we'll give you more drives at no charge. <https://www.delltechnologies.com/en-us/blog/dell-emc-flash-storage-efficiency/>

NEW QUESTION 4

When a remove replication operation is performed on a Dell EMC PowerStore array, what happens to the destination storage resource?

- A. Is deleted
- B. Stays in read/write mode
- C. Stays in read-only mode
- D. Taken offline

Answer: C

Explanation:

"Removing a replication session is initiated on the source system by removing the protection policy from the Volume or Volume Group on the source system. Removing the protection policy from a storage resource results in the following: * The destination storage resource stays in read-only mode."

NEW QUESTION 5

At what granularity are blocks deduplicated on a Dell EMC PowerStore array?

- A. 4 KB

- B. 8 KB
- C. 32 KB
- D. 64 KB

Answer: A

Explanation:

<https://www.delltechnologies.com/resources/en-us/asset/white-papers/products/storage/h18151-dell-emc-powers> Deduplication uses algorithms to analyze, perform pattern detection, and attempts to store only a single instance of data. In general deduplication can work at the block, bit-level, or file level. In PowerStore, deduplication works at the block level at 4 KB granularity.

NEW QUESTION 6

What is the minimum recommended amount of Flash capacity in a Dell EMC Unity 880 Hybrid pool?

- A. 5%
- B. 8%
- C. 10%
- D. 15%

Answer: A

NEW QUESTION 7

What is a characteristic of single-tier Flash on Dell EMC SC Series arrays?

- A. Supports both write-intensive and read-intensive SSDs in the same tier
- B. Snapshot data is kept on Tier1 in RAID 10 to optimize performance
- C. Read only data is migrated to lower tiers when a snapshot is taken
- D. Supports either write-intensive or read-intensive SSDs in the same tier

Answer: D

NEW QUESTION 8

In vCenter, what is the correct order of steps to create a VM in a storage container provisioned on a Dell EMC PowerStore system?

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

STEP1:VASA

STEP2 :POWERSTORE CONNECTIVITY

STEP3:Create vvol datastore STEP4:create vm storage policies

STEP5:Provision VMs based on vvol datastore

NEW QUESTION 9

What component or feature is provided by both the Dell EMC PowerStore 1000T array and the Dell EMC Unity XT 380 Series array?

- A. Container Integration
- B. Configured Block with Hypervisor
- C. Unified System
- D. NVMe disks

Answer: C

Explanation:

"When positioning the 380 and 380F, keep in mind that they are not NVMe-ready and will not be upgradeable to support NMVe in the future.".

NEW QUESTION 10

Which QoS options are supported by Dell EMC Unity XT?

- A. VMFS Datastore and Storage Pool
- B. iSCSI and Attached Snapshot
- C. Individual LUN and iSCSI
- D. Individual LUN and Group LUN

Answer: D

NEW QUESTION 10

When enabling a multi-protocol NAS implementation on a Dell EMC PowerStore array, what is required for an end-to-end mapping of a Windows system?

- A. Group ID (GID)
- B. User ID (UID)
- C. Active Directory (AD)

D. Security ID (SID)

Answer: D

Explanation:

<https://www.delltechnologies.com/en-us/collaterals/unauth/white-papers/products/storage/h18155-dell-emc-pow> page 22, multiprotocol, windows section, identifiers

NEW QUESTION 11

A customer wants to provision a file system while creating a NAS server in a Dell EMC PowerStore T system. What information is needed to create the NAS server?

- A. FQDN
- B. Subnet
- C. DNS details
- D. WWPN

Answer: C

Explanation:

The NAS server DNS can be enabled on the next page. For Directory Services, DNS configuration is required. Add at least one DNS server for the domain.

NEW QUESTION 16

Which Dell EMC Midrange storage platforms support NVMe SCM drives?

- A. PowerStore T and SC Series only
- B. PowerStore T and PowerStore X
- C. PowerStore T, Unity XT, and SC Series
- D. PowerStore X, Unity XT, and SC Series

Answer: B

NEW QUESTION 19

When sizing a Dell EMC Unity Hybrid array, what are considerations for growth?

- A. Port utilization and load balancing
- B. Cache utilization and hardware bottlenecks
- C. Latency and queue depth
- D. General capacity and active data

Answer: D

Explanation:

Considerations for capacity growth

(click) Overall growth vs active data growth

(click) Moving or expanding “hot blocks” of active data Longer term planning for growth

NEW QUESTION 24

What is a consideration when sizing a Dell EMC SC Series system for capacity?

- A. Read/Write ratio
- B. IOPS
- C. Page size
- D. RAID overhead

Answer: C

NEW QUESTION 27

A Dell EMC Unity storage administrator has 10 hosts. One of the hosts experiences occasional, huge IO bursts.

What is a best practice for avoiding performance issues during these burst periods?

- A. Enabling Quality of Service (QoS) will limit the burst problem
- B. Quality of Service (QoS) is enabled by default, so one only needs to configure burst settings
- C. Enable Quality of Service (QoS) then limit I/O for the entire FC port
- D. Enable Quality of Service (QoS) then configure burst settings

Answer: D

NEW QUESTION 30

You are designing a Dell EMC Unity solution. You need to predict its expected performance based on workload, number o and type of drives, and RAID protection. Which design path on the Midrange Sizer should you take?

- A. System Designer path
- B. Application Oriented path
- C. Quick Configuration path
- D. Performance Data Input path

Answer: A

NEW QUESTION 31

What is a characteristic of tenant traffic on a Dell EMC Unity array?

- A. Separated by the associated VLANs at the Linux Kernel layer
- B. Separated by the associated subnet providing data separation with increasing security at the network layer
- C. Separated by one associated VLAN providing data separation with increasing security at the Linux Kernel layer
- D. Separated by the associated subnet at the Linux Kernel layer

Answer: A

NEW QUESTION 35

You are upgrading a Dell EMC Unity array to a Dell EMC PowerStore 1000 T array. The customer asks what they need to do so they can map PowerStore snapshots from the new PowerStore array to a host.

What should be your response?

- A. Create a volume group of the snapshot.
- B. Create a read/write snapshot of the snapshot
- C. Create a copy of the snapshot
- D. Create a thin clone of the snapshot

Answer: D

Explanation:

"Volume and Volume Group Snapshots: Snapshots cannot be mapped to a host. To view the contents of a snapshot, you must first clone the snapshot then map the clone to a host."

NEW QUESTION 40

A customer has a Dell EMC SC9000 array with six SC420 enclosures running SCOS 7.3. The enclosure configuration is as follows:

Two enclosures have write-intensive SSDs

Four enclosures have read-intensive SSDs

What is recommended as a general guideline for making spare drive assignments?

- A. 2 spare drives per shell
- B. Dedicated spares are not required
- C. 2 spares per drive type per array
- D. 1 spare per drive type per shell

Answer: B

Explanation:

"SCOS 7.3, Distributed Sparing: eliminates the need for dedicated spares by giving customers the option to distribute sparing capacity across all drives in the array."

NEW QUESTION 44

What is the purpose of the NVMe NVRAM drives in a Dell EMC PowerStore 9000 array?

- A. Read cache and vaulting
- B. Read cache and base OS
- C. Write cache and base OS
- D. Write cache and vaulting

Answer: D

NEW QUESTION 48

Match each term with its description.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Throughput = Sized by type and number of ports to handle traffic Latency = Time taken for an IO to be executed
IOPS = Amount IO generated by application Queue depth = IOS in buffer waiting to be executed

NEW QUESTION 49

You are sizing a new Dell EMC SC Series array. Upon analyzing the Live Optics report, you find the current system has a peak throughput of 4687 MB. What is the minimum number of 10Gb iSCSI front-end ports required to meet the throughput needs?

- A. 8
- B. 10
- C. 12
- D. 16

Answer: D

NEW QUESTION 53

In Dell EMC PowerStore storage, if the remote cluster has multiple appliances, then what automatically chooses the destination appliance for the resource?

- A. Performance Policy
- B. Resource Balancer
- C. Master appliance
- D. Source array

Answer: B

Explanation:

From the POWERSTORE ADMINISTRATION PARTICIPANT GUIDE,
" Resource balancer also considers the the following when placing volumes:
Whether the appliance is offline Appliance failure status Capacity utilization

NEW QUESTION 57

What is a consequence of using an 800 GB drive and five 400 GB drives in a Dell EMC Unity XT dynamic pool?

- A. Extents 9 – 14 are used to create a RAID Group
- B. Unisphere short strokes the 800 GB drive to 8 extents
- C. Extents 9 – 14 are marked unavailable until more 800 GB drives are added
- D. Extents 9 – 14 are marked unavailable and can never be recovered

Answer: C

Explanation:

The entire capacity of a particular drive size is only available when the drive count within the drive partnership group for the drive in question matches or exceeds the stripe width plus one drive. It is not recommended to mix different size drives of the same type for this reason, unless an adequate number of drives are available to meet or exceed the stripe width plus one drive requirement
h16289-dell_emc_unity-dynamic_pools.pdf - Page 18-19

NEW QUESTION 61

How are vVol datastores mounted in Dell EMC PowerStore storage during the creation of vVol datastores in the vSphere environment shared by ESXi hosts?

- A. Volume Groups
- B. Storage containers
- C. Storage Groups
- D. VMFS datastores

Answer: B

Explanation:

A storage container is used to present vVol storage from a PowerStore cluster to vSphere. vSphere mounts the storage container as a vVol datastore and makes it available for VM storage. When a PowerStore cluster is used to provide VM storage, user VMs should be provisioned on the vVol datastores. The default storage container is mounted automatically on the nodes of the cluster.

NEW QUESTION 65

A Dell EMC Unity storage administrator needs to build a NAS server configuration to support failover between SPs and NAS resources. What is a term for this configuration?

- A. Local Replication
- B. IP Multi-tenancy
- C. LACP
- D. Separate IP Switches

Answer: A

NEW QUESTION 70

What storage resources are affected with a refresh option on a Dell EMC PowerStore array?

- A. Thin clones and volumes only
- B. Snapshots, thin clones, and volumes
- C. Thin clones, volumes, and replicas
- D. Thin clones and snapshots only

Answer: A

NEW QUESTION 75

Which Dell EMC SC Series array allows for back-end expansion cards?

- A. SCv3000
- B. SC7020
- C. SC5020
- D. SCv3020

Answer: B

Explanation:

<https://www.dell.com/support/manuals/en-us/storage-sc7020/sc7020-om/sc7020-series-storage-system-back-pan> Here we clearly have Each storage controller contains:[...] Expansion slots for I/O cards: Slots for optional front-end connectivity – Fibre Channel and iSCSI I/O cards Slots for optional back-end connectivity – SAS I/O cards [...] SCv3000, SCv3000 and SC5020 owner manual say: One expansion slot for a front-end I/O card:
<https://www.delltechnologies.com/de-at/collaterals/unauth/technical-guides-support-information/services/h1735>

NEW QUESTION 76

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