

EMC

Exam E20-542

VMAX3 Solutions and Design Specialist Exam for Technology Architects

Version: 6.0

[Total Questions: 136]

Question No : 1

A storage administrator attempts to link a TimeFinder SnapVX snapshot to a target Storage Group using Unisphere for VMAX. Which StorageGroups (SGs) will be available?

- A. SGs not in any Masking View
- B. SGs in a Masking View
- C. SGs not managed by the Optimized SLO
- D. SGs managed by the Optimized SLO

Answer: A

Question No : 2

A VMAX3 storage administrator notices that some devices have different FA addresses on different ports within the same Masking View. Which setting could have been used to avoid this issue?

- A. Consistent LUN
- B. SPC2 Port Flag
- C. Dynamic LUNs
- D. Cascaded Storage Groups

Answer: A

Question No : 3

From an application perspective, what should be done prior to performing an SRDF restore operation?

- A. Stop accessing R1 and R2 devices
- B. Stop accessing R1 devices; continue accessing R2 devices
- C. Continue accessing R1 devices; stop accessing R2 devices
- D. Continue accessing R1 and R2 devices

Answer: A

Question No : 4

You are in a meeting with a customer describing the features of VMAX3 arrays. The customer wants additional information about the VMAX3 factory pre-configuration.

Which objects are pre-configured at the factory?

- A. Disk Groups, Data Pools, and a Storage Resource Pool
- B. Storage Resource Pools and Masking Views
- C. Disk Groups, Data Pools, and Storage Groups
- D. Data Pools, Storage Resource Pools, and Port Groups

Answer: A

Question No : 5

A VMAX3 parent Storage Group (SG) contains two child SGs: SG1 and SG2. What is a valid Host I/O limit setting for this configuration?

- A. Parent SG - 400,000
SG1 - 500,000, SG2 - 300,000
- B. Parent SG - 400,000
SG1 - 500,000, SG2 - NOLIMIT
- C. Parent SG - 500,000
SG1 - 400,000, SG2 - NOLIMIT
- D. Parent SG - 500,000
SG1 - NOLIMIT, SG2 - 1,000,000

Answer: C

Question No : 6

What is the effect of a failed Suitability Check while provisioning storage on a VMAX3?

- A. No effect; the allocation can still proceed.
- B. Allocation will not be allowed to proceed.
- C. FAST will move extents to accommodate the allocation.
- D. A critical alert will be sent to the alarm console.

Answer: A

Question No : 7

You are designing an SRDF/A solution between two VMAX3 arrays. The customer wants to know what will happen to an active SRDF/A session if there is a temporary link loss.

What information should be provided to the customer?

- A. SRDF/A session remains active. Cycle switching continues on the R1 side, transmit queue depth increases.
- B. SRDF/A session remains active. Cycle switching stops, capture cycle grows.
- C. SRDF/A session drops. Cycle switching stops. New writes to R1 are tracked as invalids to R2.
- D. SRDF/A session drops. Cycle switching stops. New writes to R1 are added to the transmit queue.

Answer: A

Question No : 8

What is the EMC_smasdb service on a Unisphere for VMAX Windows server?

- A. Unisphere for VMAX performance database service
- B. Solutions Enabler SYMAPI server daemon
- C. Solutions Enabler statistics daemon
- D. Unisphere for VMAX application service

Answer: A

Question No : 9

A VMAX3 parent Storage Group (SG) contains two child SGs: SG1 and SG2. What is a valid Host I/O bandwidth limit setting for this configuration?

- A. Parent SG - 400
SG1 - 500, SG2 - 200
- B. Parent SG - 400
SG1 - 500, SG2 - NOLIMIT
- C. Parent SG - 500
SG1 - 500, SG2 - 400

D. Parent SG – 500
SG1 - NOLIMIT, SG2 - 1000

Answer: C

Question No : 10

What is a difference between SRDF/A multi-cycle mode and the legacy mode?

- A. Cycle switching is coupled between R1 and R2 arrays in legacy mode. Cycle switching is independent in multi-cycle mode.
- B. Cycle switching is coupled between R1 and R2 arrays in multi-cycle mode. Cycle switching is independent in legacy mode.
- C. Multi-cycle mode can have more than two delta sets on the R2 side. Legacy mode can only have two delta sets on the R2 side.
- D. Multi-cycle mode can only have two delta sets on the R1 side. Legacy mode can have more than two delta sets on the R1 side.

Answer: A

Question No : 11

What is a consideration when designing an SRDF/A solution between a VMAX3 array and an older VMAX 40K array?

- A. SRDF/A will run in legacy mode.
- B. SRDF/A MSC is not supported.
- C. SRDF/A DSE is automatically enabled on both arrays.
- D. SRDF/A DSE pools must be configured on both arrays.

Answer: A

Question No : 12

What is the maximum number of linked targets that TimeFinder SnapVX supports?

- A. 32

- B. 128
- C. 256
- D. 1024

Answer: D

Question No : 13

You are designing SRDF/S over GigE between two VMAX3 arrays. The production and remote data centers are 100 km apart. What is the expected write response time delay due to latency?

- A. 0.25 ms
- B. 0.5 ms
- C. 1 ms
- D. 2 ms

Answer: C

Question No : 14

You are proposing a VMAX3 eNAS solution to a customer. The customer wants the eNAS system to be backed up to tape. Which I/O module will meet this requirement?

- A. 2-port 10GbE BaseT
- B. 2-port 10GbE Optical
- C. 4-port 8 Gb FC
- D. 4-port 16 Gb FC

Answer: C

Question No : 15

SRDF/A has been enabled between two VMAX3 arrays. What will the RDF pair state be if there is a permanent loss of all RDF links?

- A. Partitioned

- B. Suspended
- C. Consistent
- D. Split

Answer: A

Question No : 16

A company is using a VMAX3 at each of their two sites. They have allowed hosts to write data to both the R1 and R2 devices. They decide that the data on the R1 site is the actual production data and need to start replicating data from R1 to the R2 site again.

Which operation will discard the new data on the R2 and resume replication?

- A. Establish
- B. Restore
- C. Resume
- D. Failback

Answer: A

Question No : 17

A storage administrator has completed TimeFinder SnapVX testing. The administrator is unable to terminate the TimeFinder SnapVX snapshot of the test Storage Group.

What advice should be provided to the administrator?

- A. Check for linked targets
- B. Change the "Time to Live" setting
- C. Confirm there is available Reserved Capacity
- D. Issue the terminate command against the individual LUNs

Answer: A

Question No : 18

A storage administrator began taking nightly TimeFinder SnapVX snapshots of Oracle database LUNs 7 days ago. The administrator reports that the snapshots failed the previous night.

What advice should be provided to the administrator?

- A. Confirm there is available capacity in the Storage Resource Pool
- B. Update the Solutions Enabler database and re-run the snapshots
- C. Confirm the database was put in hot backup mode before the snapshot
- D. Link the last good snapshot to a target and restore the database LUNs

Answer: A

Question No : 19

A storage administrator uses Unisphere for VMAX to provision new storage from a VMAX3 array. Which Workload Type is recommended for a combination of small and large block I/O workload?

- A. None
- B. DSS
- C. OLTP
- D. Optimized

Answer: A

Question No : 20

You are designing an SRDF/A solution with BCSD and the results of the model are shown in the exhibit. The BCSD model was run with the following settings:

Source Array: VMAX 200K, 2-engine, 2 TB cache

Number of RA Ports: 4

Network Circuit: 450 MB/s

Required RPO: 5 minutes

Which conclusion can be made based on the modeling results?

- A. Inadequate number of RA ports
- B. Inadequate bandwidth
- C. Inadequate cache
- D. Inadequate paging disk space

Answer: A

Question No : 21

You are in the process of sizing a new VMAX3 solution. One of the workloads will be replicated with TimeFinder SnapVX.

Workload Details:

Capacity = 10000 GiB

IOPS = 400

Change Rate = 25%

Mounted Snaps = 2

Mounted Copy IOPS = 20

How many additional IOPS will the VMAX Sizer account for with this workload due to SnapVX?

- A. 20
- B. 40
- C. 50
- D. 400

Answer: B

Question No : 22

A VMware administrator has been tasked with managing storage for an ESXi cluster connected to a VMAX3 array. The VMware administrator is not familiar with Unisphere for

VMAX and wants to use the VMware Web Client to provision VMFS datastores.

Which EMC product provides this functionality?

- A. VSI Plug-in
- B. VASA
- C. PowerPath
- D. SYMCLI

Answer: A

Question No : 23

The Storage Group containing the source volumes on a VMAX3 array is managed by the Gold SLO. A TimeFinder SnapVX snapshot of this Storage Group is linked to target volumes. The Storage Group containing the target volumes is managed by the Bronze SLO.

Which SLO will be used to manage the snapshot deltas?

- A. Optimized
- B. Gold
- C. Bronze
- D. None

Answer: A

Question No : 24

You are designing an SRDF/S over Fibre Channel solution. Data centers are 100 km apart and 4 Gb/s FC links are in place. What is the minimum number of buffer-to-buffer credits required to maximize the utilization of the links?

- A. 25
- B. 50
- C. 100
- D. 200