



EMCTA E20-816

Symmetrix Solutions Expert Exam for Technology Architects

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Question: 1

Which type of errors does the TimeFinder Integration Module for Exchange scan for prior to a backup?

- A. -1010
- B. -1018
- C. -1019
- D. -1022

Answer: C

Question: 2

A customer has the following storage configuration for a specific application:

- Symmetrix VMAX 4 engine with 128 GB cache per engine
- SRDF/A with two 1 Gbps links to remote site
- 4.2 TB of logical volumes configured for SRDF/A replication
- SMC / SPA installed for storage management

The customer is periodically experiencing high response times for the application.

How can the customer use SPA to determine the potential cause of the high response times?

- A. View Directors BE % busy versus Directors FE % busy
- B. View SRDF/A device write pending count versus system write pending count
- C. View Ports FE throughput in Kbps versus Devices Kbps read + Devices Kbps written
- D. View RDF-Group (group number) rewrites per sec

Answer: B

Question: 3

You have been tasked with gathering performance data for a Microsoft SQL server database that will be migrated to a Symmetrix VMAX. Which Perfmon counter must you measure prior to designing a disk layout?

- A. Physical Disk\Disk Writes/sec
- B. Physical Disk\Avg. Disk sec/Write
- C. Logical Disk\Avg. Disk Bytes/sec
- D. Logical Disk\Disk Write Bytes/sec

Answer: A

Question: 4

Which Symmetrix VMAX component is involved in measuring sampled average response time?

- A. Front-end ports
- B. Cache
- C. Back-end directors
- D. Front-end directors

Answer: D

Question: 5

Your customer has security and management concerns with SRDF and Timefinder scripts that are currently running on many production hosts. Symacl will be used to reduce or limit storage management controls to two centralized management servers. How can your customer finish migrating the scripts after symacl is enabled?

- A. The legacy scripts access can be managed by using the unknown group.
- B. The legacy scripts can be managed by creating a legacy access control group.
- C. The legacy script must be migrated to the centralized management server before enabling symacl.
- D. The legacy scripts access can be managed by creating a legacy Access Control Pool.

Answer: A

Question: 6

Which change in a Symmetrix VMAX workload will typically result in an increase in the read hit rate?

- A. Increase in locality of reference
- B. Increase in the percentage of read I/Os
- C. Increase in the I/O size
- D. Spread the workload over more devices

Answer: A

Question: 7

A new data warehouse will be hosted on an existing 4-engine VMAX array. The database server has 4 HBAs connected at 8Gb/s. Due to limited SAN switch ports only port 0 on each VMAX FA is connected - also at 8Gb/s.

The workload is expected to require at least 1700MB/s of reads @ 128KB I/O size. It must maintain performance in case of any major component failure in the host, switch or array. Assume that the existing workload on the VMAX does not exceed 350MB/s per port. Also assume that the ports can sustain up to 500MB/s without exceeding 70% utilization.

What is the best practice HBA to FA mapping to ensure the required performance of the data warehouse?

- A. HBA0 -> Engine 3 FA ports HBA1 -> Engine 4 FA ports HBA2 -> Engine 5 FA ports HBA3 -> Engine 6 FA ports
B. HBA0 -> E0 FA ports HBA1 -> F0 FA ports HBA2 -> G0 FA ports HBA3 -> H0 FA ports
C. HBA0 -> E1 FA ports HBA1 -> F1 FA ports HBA2 -> G1 FA ports HBA3 -> H1 FA ports
D. HBA0 -> FA 7e0, 8e0, 9e0, 10e0 HBA1-> FA 5e0, 6e0, 11e0, 12e0 HBA0 -> FA 7h0, 8h0, 9h0, 10h0 HBA1-> FA 5h0, 6h0, 11h0, 12h0

Answer: B

Question: 8

Cascaded SRDF is running in SRDF/A mode from the source (R1) site to the disk-based secondary (R21) site. Which SRDF mode is permitted between the R21 and the R2 sites?

- A. Adaptive Copy Disk
B. Adaptive Copy Write Pending
C. Synchronous
D. Asynchronous

Answer: A

Question: 9

A company uses VMware ESXi Servers and Symmetrix VMAX storage arrays. Which EMC Virtual Storage Integrator feature allows the allocation of new Symmetrix VMAX storage to Virtual Machines from the VMware vSphere client?

- A. Unified Storage Management
B. Storage Viewer
C. Storage Pool Management
D. Symmetrix SRA Utilities

Answer: C

Question: 10

A company has a VMware vSphere 5.0 ESXi host using NUMA, This host is experiencing poor performance. Which BIOS settings on the ESXi host could help alleviate this performance issue?

- A. Enable Node Interleaving
B. Disable Node Interleaving
C. Enable HyperThreading
D. Disable HyperThreading

Answer: B

Question: 11

A data warehouse team is reporting poor performance on their batch reports. The database runs on a Solaris host connected to a DMX-4 array with Fibre Channel drives sized to support a sequential read workload. Which metrics in Performance Manager would be useful in diagnosing the performance issue?

- A. I/O per second, KBytes read per second, prefetched tracks per second, Tracks not used per second
- B. Average sampled read time, KBytes read per second, I/O per second, Read hit %
- C. KBytes read per second, Prefetched tracks per second, Read %, Write %
- D. Read hit %, Tracks not used per second, Average sampled read time, I/O per second

Answer: A

Question: 12

A customer requested a point-in-time replica of their Oracle database. You have architected a TimeFinder/Clone environment to meet the customer's requirements. However, the customer immediately notices that queries against the production database are noticeably slower than normal. Which recommendation helps minimize this performance impact?

- A. Re-create the clone pair using the differential option
- B. Create a TimeFinder/Snap session off R2 volumes
- C. Re-create a new TimeFinder/Clone session off R2 volumes
- D. Create a new TimeFinder/Clone session using the precopy flag

Answer: D

Question: 13

Your customer has an Oracle 11g environment that requires a database to be recoverable within a few minutes over an extended distance. Which best practice would you recommend to ensure recoverability on the target side?

- A. Enable Archive Log mode on the production database; enable SRDF/A across the RDF link; split the RDF link (consistent); and apply the archive logs on the target side.
- B. Using SRDF/A across the RDF link, apply the redo logs on the target side after the split
- C. Enable SRDF/S for full source-to-target synchronization. After the RDF split, apply the redo logs to ensure recoverability
- D. Enable SRDF/AR for full source-to-target synchronization at the bunker site

Answer: A

Question: 14

Your customer just enabled symacl on a pair of existing VMAX arrays with SRDF/S replication

configured between the frames. What needs to be done next to enable the local management host to manage the SRDF relationship?

- A. Assign access type Base, RDF to both local management hosts on its corresponding Remote VMAX frames.
- B. No additional access is required, as the local management hosts have full admin rights to the local VMAX.
- C. Assign access type RDF to both local management hosts on its corresponding Remote VMAX frames.
- D. Assign access type RDF to both local management hosts on its corresponding Remote VMAX frames.

Answer: A

Question: 15

A customer has a Symmetrix VMAX array. Symmetrix back-end utilization is about 70%. They would like to increase their workload by 10%. What would be the expected change in the response time due to the increased workload?

- A. 10%
- B. Greater than 10%
- C. Less than 10%
- D. Remain the same

Answer: B

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