Vendor:EMC

Exam Code:E20-880

Exam Name:VNX Solutions Expert Exam for Technology Architects

Version: Demo

QUESTION 1

Why is it important for Pool LUNs to always have the same Default SP owner and Default Allocation owner?

A. So they do not pass data across the CMI bus.

B. In order to utilize the higher bandwidth of the CMI bus

C. The LUNs will be identified as trespassed

D. To eliminate the possibility of LUN trespassing

Correct Answer: A

QUESTION 2

You are migrating a backup application that runs on physical servers to a VDC. The VDC storage is currently a VNX configured with NL-SAS drives only. Your customer is concerned about the cost to achieve reasonable performance. You are designing the VMs that will support the application.

Based on cost, which would be the first solution you would recommend?

A. VMware Paravirtual SCSI virtual adapter

B. Virtual adapter is BusLogic Parallel

C. FAST VP Pool (Flash and SAS drives)

D. SAS RAID Group

Correct Answer: A

QUESTION 3

Refer to the exhibit.

A customer has three SAS DAEs configured with eight 4+1 RAID 5 Groups (RG) and six Hot Spares as shown in the exhibit. All RGs are unused except for RG 0, which contains the Control LUNs. All LUNs except for those in RG 0 are the same size.

Which dvols will be selected for file system creation using Automatic Volume Management System-defined pools?

A. dvols 11, 13, 20, and 22

B. dvols 9, 12, 14, and 18

C. dvols 7, 11, 17, and 25

D. dvols 9, 10, 11, and 12

Correct Answer: A

QUESTION 4

Click the calculator icon in the upper left-hand corner.

Your customer has LUNs with a total size of 25,000 GB. The total I/O load is 10,000 IOPS, with a 4:1 R/W ratio. Analysis of your customer\\'s data indicates that data skew is 95%. RAID 5 (4+1) is used exclusively in the environment. How many 200 GB FAST VP optimized Flash drives would be needed to handle the load of the working data set?

A. 5

B. 10

C. 15

D. 20

Correct Answer: B

QUESTION 5

A customer has deployed a legacy application on their VNX storage system that is configured with NL-SAS drives. They are considering adding an application to this array. They have reviewed the analyzer file and told you that the NL-SAS disk queue length is 8.

What advice would you give them?

A. Consider upgrading their disk technology

B. No immediate changes are necessary

C. There is growth capacity for their environment

D. Modify the SCSI command set to optimize the queue utilization

Correct Answer: A

QUESTION 6

You designed the disk layout on a VNX storage system for a large client. They have a very large amount of basic file data consisting of Word documents and text files. The data needs to be accessible but sits for long periods of time without activity.

You decided to place this data on a thin LUN and compress it to maximize capacity. The client is concerned about how much capacity they will reclaim with compression.

Based on the data that is going to be placed on the compressed LUN, what compression ratio will the client typically see?

A. 2:1

B. 3:1

C. 4:1

D. 8:1

Correct Answer: A

QUESTION 7

A customer is creating a new configuration that has 100% sequential reads with very high thread counts. The configuration will be for a test bed which will require no high availability or fault tolerance on failures. What RAID and drive configuration should be recommended?

A. RAID 0 with SAS Drives

B. RAID 5 with NL-SAS Drives

C. RAID 6 with NL-SAS Drives

D. RAID 3 with NL-SAS Drives

Correct Answer: A

QUESTION 8

A pair of VNX storage arrays is replicating between two data centers over an iSCSI connection. The SQL Admin has noticed that a small OLTP database with a write size of 4k periodically experiences increased disk response times. The Storage Admin reports that during the same period, replication sessions are taking longer to complete. The Network Admin reports degraded performance between the sites during the same period.

Why is the SQL application seeing increased disk response times from the local array?

A. Increased latency causes the MirrorView/A update cycles to take longer, increasing COFW activity.

B. The 64 KB chunk size for MirrorView/A does not match the small transaction size of the database, increasing the bandwidth required between the arrays.

C. The MirrorView/A update cycle time is too short. It should be increased to improve write folding.

D. The MirrorView/A buffer size should be adjusted to match the smaller write I/O size.

Correct Answer: A

QUESTION 9

How many threads should be used to provide the best performance to a sequential file system spanning a single 4+1 RAID 5 LUN?

A. One thread for the LUN

B. One thread per physical disk

C. Four threads per dVol

D. Four threads per LUN

Correct Answer: A

QUESTION 10

A customer is using a virtualized environment with a large number of NFS datastores presented from a VNX system. They are experiencing more than expected network traffic on their datastore networks.

According to EMC best practices, what recommendation should you make to your customer?

A. Adjust NFS.ReadBufferSize and NFS.SendBufferSize to 64.

B. Ensure that all VMware file systems are thin provisioned to improve NFS write I/O.

C. Enable NFS write cache for all NFS datastores.

D. Make sure that the NFS and VMKernel traffic is consolidated onto the same virtual switches.

Correct Answer: A

QUESTION 11

A customer is in the design phase of their SQL server implementation. They request your guidance concerning the number of disk drives needed to properly configure the database for performance. The current utilization of the database is shown below:

S 85% reads and 15% writes

10K SAS disks

RAID 1/0

1150 IOPS

What is the minimum number of disk spindles required to service the random I/O requests during usage of the SQL Server database?

A. 8

B. 10

C. 12

D. 14

Correct Answer: B

QUESTION 12

When designing a VNX solution, which metric should be used to measure the time a component is busy servicing requests?

A. Utilization

B. Queue Length

C. Response Time

D. Seek Time

Correct Answer: A