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QUESTION 1

The customer wants to display storage-system statistics in Unisphere.

What is the default polling interval (Minutes) for Statistics Logging?

- A. 5
- B. 10
- C. 15
- D. 20

Correct Answer: A

QUESTION 2

A customer has deployed a new application on a host using VNX storage. The new application I/O size is 512 KiB, has a 50/50 read-write ratio, and its write behavior is sequential and bursty. All other host applications are characterized by 4 KiB I/O random writes.

The customer has noticed degraded overall VNX performance during write bursts, which is caused by the new application. Your analysis reveals a high rate of forced flushing, as well as significant CMI congestion.

What can you recommend to improve overall VNX performance?

- A. Decrease the write-aside value
- B. Disable write back cache
- C. Increase the read cache area
- D. Enable mirror cache

Correct Answer: A

QUESTION 3

You have designed a VNX for File solution for a creative content provider. The solution involves 10, 2 TiB file systems. Each file system has a Checkpoint taken every hour, refreshed every day. The customer predicted a 2% daily change rate,

and SavVol storage was allocated based on that change rate.

Sometime after the implementation, the customer notices that some of the older Checkpoints are disabled.

What is the most likely explanation?

- A. Total SavVol utilization has exceeded the maximum allowed

- B. Total number of Checkpoints has exceeded the maximum allowed
- C. Checkpoints have a minimum refresh cycle of 48 hours
- D. Write activity to the Checkpoint is highly random

Correct Answer: A

QUESTION 4

Refer to the exhibit.

Specification	Value
Number of users (mailboxes) in Exchange environment	16,000
Number of messages sent or received per user per day	150 (0.15 IOPS)
Number of mailboxes per server	4,000 in a switchover configuration (2,000 active / 2,000 passive)
Database read/write ratio	3:2 (60/40 percent) in a mailbox resiliency configuration

You are proposing a storage solution using VNX to support a Microsoft Exchange 2010 virtual implementation on VMware ESXi. You have worked with the customer to understand the Exchange requirements, which are described in the exhibit. Based on availability, performance, and Exchange mailbox size requirements, you are recommending RAID 5 with 7.2K rpm NL/SAS drives.

Following EMC best practices, what is the minimum number of spindles that would be required for this environment?

- A. 16
- B. 26
- C. 34
- D. 48

Correct Answer: B

QUESTION 5

What is the prefetch mode in MCC that triggers a host to read two logical cache pages?

- A. Read More
- B. Constant
- C. Read Ahead
- D. Variable

Correct Answer: A

QUESTION 6

You have designed an Auto-tiering solution using Flash, SAS, and NL-SAS disks in your storage pool. Your design was implemented and scheduling has been running daily. The customer reports that there is no data in the NL-SAS tier.

Why is this the case?

- A. Data was previously moved to another tier
- B. Scheduling is not required for this configuration
- C. Tiering is set up for Lowest Available Tier
- D. There was no data in the Flash drives to start with

Correct Answer: A

QUESTION 7

Your customer is having performance problems on their Linux database servers that are attached to a VNX. You have diagnosed the VNX and found no obvious issues.

Which utility would the customer use to provide performance reports on host block device activity?

- A. sar
- B. perfstat
- C. perfmon
- D. tcpdump

Correct Answer: A

QUESTION 8

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 9

A LUN has the following settings:

Prefetch Type: Variable

Prefetch Multiplier: 4

Segment Multiplier: 4

Prefetch Disable: 4097

Write-aside Size: 2048

Maximum Prefetch: 4096

What is largest write that will be cached?

- A. 1 MB
- B. 2 MB
- C. 4 MB
- D. 512 KB

Correct Answer: A

QUESTION 10

A VNX for File administrator is implementing SnapSure for backup staging. The administrator is concerned that this solution might affect the Production File Systems (PFS). You are asked to describe the possible performance impact of SnapSure checkpoints on the PFS.

How would you respond?

- A. COFW will affect PFS write performance.
- B. PFS read activity is not affected by Checkpoints.

- C. COFW will affect PFS read performance.
- D. Checkpoints have no performance impact on the PFS.

Correct Answer: A

QUESTION 11

You are designing a VNX storage solution for an Oracle database implementation. The VNX is populated with Flash, SAS and NL-SAS drives. The customer has asked you to recommend the optimal disk layout for the Oracle Automated Storage Manager instance disk group.

Which recommendation best conforms to EMC best practices?

- A. 8 RAID 1/0 Flash LUNs
- B. 4 RAID 1/0 Flash LUNs, 4 RAID 1/0 SAS LUNs
- C. 4 RAID 1/0 Flash LUNs, 4 RAID 5 Flash LUNs
- D. 4 RAID 1/0 SAS LUNs, 4 RAID 6 NL-SAS LUNs

Correct Answer: A

QUESTION 12

You received a call from a customer asking to help troubleshoot why they cannot select dvols using MVM from their remaining pool LUNS to create a stripe volume.

What could be a reason for this?

- A. All Thick LUNs must be used first
- B. All Thin LUNs must be used first
- C. LUNs must not exceed 18 TB in size
- D. LUNs must be on the same SP

Correct Answer: A

QUESTION 13

You are in a design session with a customer of an ESXi 5.0 cluster. One of the stakeholders inquires about vNUMA. By default, what is the minimum number of CPUs in a vNUMA enabled environment?

- A. More than 4 vCPU
- B. More than 8 vCPU
- C. More than 12 vCPU

D. More than 16 vCPU

Correct Answer: B

QUESTION 14

Refer to the exhibit.

```
C:\>naviseccli -h cx1a getdisk 0_0_5
Bus 0 Enclosure 0 Disk 5
Vendor Id: SEAGATE
Product Id: ST130065 CLAR300
Product Revision: 6310
Lun: 500 501 502 503 504 505 506 507 508 509 510 511 401
Type: 500: RAIDS 501: RAIDS 502: RAIDS 503: RAIDS 504: RAIDS
505: RAIDS 506: RAIDS 507: RAIDS 508: RAIDS 509: RAIDS 510: RAIDS 511: RAIDS 401: RAIDS
State: Enabled
Hot Spare: 500: NO 501: NO 502: NO 503: NO 504: NO 505: NO 506: NO
507: NO 508: NO 509: NO 510: NO 511: NO 401: NO
Pct Rebuilt: 500: 100 501: 100 502: 100 503: 100 504: 100 505: 100 5
06: 100 507: 100 508: 100 509: 100 510: 100 511: 100 401: 100
Pct Bound: 500: 100 501: 100 502: 100 503: 100 504: 100 505: 100 5
06: 100 507: 100 508: 100 509: 100 510: 100 511: 100 401: 100
Serial Number: 3LM5QR85
Sectors: 121634816 <59392>
Capacity: 274845
Private: 500: 69704 501: 42012744 502: 83955784 503: 125898824 5
04: 167841864 505: 209784904 506: 251727944 507: 293670984 508: 335614024 509: 3
77557064 510: 419500104 511: 461443144 401: 503386184
```

A customer is seeking insight about the data access profile on LUN 500, and has provided you the output shown in the exhibit. The Average Seek Distance (GB) parameter from Unisphere Analyzer shows a high value relative to the size of the disks that make up the RAID Group on which LUN 500 resides.

What can you determine about the data access profile of LUN 500?

- A. It is indeterminate
- B. It is random
- C. It is sequential
- D. It is highly variable

Correct Answer: A

QUESTION 15

An application owner is concerned about the performance of a set of application servers. The applications generate a large amount of small I/O. Disk and LUN response times appear to be acceptable for the servers in question. The servers are all Windows hosts using QLogic HBAs with the default EMC driver settings.

Which Unisphere Analyzer counter would provide the most useful insight into the issue?

- A. SP Port Queue Full Count
- B. SP Port Total Bandwidth (MB/s)

C. Disk Utilization (%)

D. LUN Total Bandwidth (MB/s)

Correct Answer: A

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