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QUESTION 1

A customer creates a multi-tiered pool with the following configuration:

Five 200 GB FAST VP optimized Flash drives configured as 4+1 RAID 5 Ten 600 GB 15 krpm SAS drives configured as 4+1 RAID 5 Sixteen 2 TB NL-SAS drives configured as 6+2 RAID 6

The customer's workload consists of 4 kB random I/Os with a R/W ratio of 2:1.

How many host IOPs can the pool support?

- A. 3,397 writes/s and 6,793 reads/s
- B. 28,240 IOPs
- C. 20,740 IOPs
- D. 6,913 writes/s and 13,827 reads/s

Correct Answer: A

QUESTION 2

A VNX customer has several users on their CIFS share, which is also used for dedupe/compression. In addition, replication is in place with checkpoints on both ends to handle backup needs. Since dedup was activated a few days ago, all changed blocks that the dedupe process flags to eliminate from the primary FS get copied into the SavVol. Now, deduplication has been aborted. What could have caused this to happen?

- A. The SavVol was extended
- B. The SavVol extension protection mechanism was disabled
- C. Older checkpoints were deleted
- D. Checkpoints were deleted out of order

Correct Answer: A

QUESTION 3

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

An application generates 500 random 8 kB IOPS with a R/W ratio of 3:1. An asynchronous mirror is started on the application LUN. The update cycle is configured to be 30 minutes, and updates take 15 minutes to complete. Assume that the

data rate is constant.

What is the minimum space that should be configured for the Reserved LUN Pool on the secondary VNX?

- A. 879 MiB

- B. 7,032 MiB
- C. 14,064 MiB
- D. 16,250 MiB

Correct Answer: B

QUESTION 4

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 5

A customer has recently virtualized an Oracle database on a VNX system. Initially, performance was satisfactory. Now, with more usage there is some performance degradation. You used Analyzer to check the backend and did not see any problems.

Which VMware best practice would be easiest to resolve the issue?

- A. Use a paravirtualized SCSI adapter
- B. Use Oracle ASM
- C. Align VMFS properly
- D. Create dedicated datastores to service workloads

Correct Answer: A

QUESTION 6

How do you change the Allocation Owner of a FAST VP pool LUN to match the Default SP owner?

- A. The LUN must be migrated to a new LUN with the desired Allocation Owner.
- B. Trespass the LUN to the SP of the desired Allocation Owner.
- C. Change the Allocation Owner in the LUN properties within Unisphere.
- D. Run `naviseccli lun -owner` to change the Allocation Owner.

Correct Answer: A

QUESTION 7

A Customer is planning to build a VMware DTaaS environment on a VNX array. The customer is deciding what type of VM replicas would be acceptable in their environment. It needs to have a small footprint and contain frequently accessed data on SSDs drives. What should be recommended?

- A. Link Clones
- B. Snap clones
- C. Flash clones
- D. Full clones

Correct Answer: A

QUESTION 8

Your customer has LUNs with a total size of 20,000 GiB. The total I/O load is 15,000 IOPS, with a 4:1 R/W ratio. Analysis of your customer's data indicates that data skew is 90%. RAID 5 is used exclusively in the environment. How many 200 GB Flash drives would be needed to handle the load of the working data set?

- A. 10
- B. 15
- C. 20
- D. 25

Correct Answer: B

QUESTION 9

Your customer has recently purchased a VNX to host their three Oracle RAC database environments and automated payment processing application. The RACs and application are differentiated as follows: ORA- PROD, ORA-STAGE, ORADEV, APP-PROD, APP-STAGE, and APP-DEV.

The customer has provided you with their Enterprise Storage Policy (ESP) and is requesting that you adhere to this policy when architecting their new VNX solution. The ESP states the following as it relates to Oracle database storage requirements:

All LUNs must be configured as raw devices

All LUNs must be managed using ASM

No fewer than two LUNs per ASM disk group

No more than one database per RAC per RAID Group

No more than three databases per RAID group

All data LUNs must be 1000 GiB RAID 5

All FRA LUNs must be 500 GiB RAID 1/0

No more than eight total disks per RAID Group

No fewer than four disks per RAID Group

Based on the ESP, and assuming ORA-PROD has six instances, what is the minimum number of RAID Groups required?

- A. 1
- B. 2
- C. 3
- D. 6

Correct Answer: B

QUESTION 10

When designing a VNX Block Pool layout for a high performance application, how should LUN ownership be assigned?

- A. All LUNs in the pool should be owned by the same SP
- B. LUNS should be evenly assigned between each SP
- C. The LUNs should be distributed so that the majority is owned by the least utilized SP first
- D. Avoid assigning any LUNs to the most utilized SP until each SP has the same number of LUNs

Correct Answer: A

QUESTION 11

During decompression with default settings, if the pool becomes too full, decompression will be paused but host I/O can continue. At what percent full will host I/O be terminated to the LUN?

- A. 91%
- B. 98%
- C. 100%
- D. 80%

Correct Answer: B

QUESTION 12

A Customer is considering purchasing a new VNX but can't decide whether to go with Classic RAID groups or pools. They would like to know the performance differences between the two when creating Thick LUNS. What would be the best response?

- A. Thick pool LUNs typically perform at around 90% of a classic LUN.
- B. Classic LUNs typically perform at around 90% of a Thick pool LUN.
- C. Thick pool LUNs typically perform at around 80% of a classic LUN.
- D. Classic LUNs typically perform at around 80% of a Thick pool LUN.

Correct Answer: A

QUESTION 13

Your customer is new to Unisphere Analyzer and wants to know which chart should be used to identify how SP utilization relates to the increased IO on LUNs being used their Oracle application.

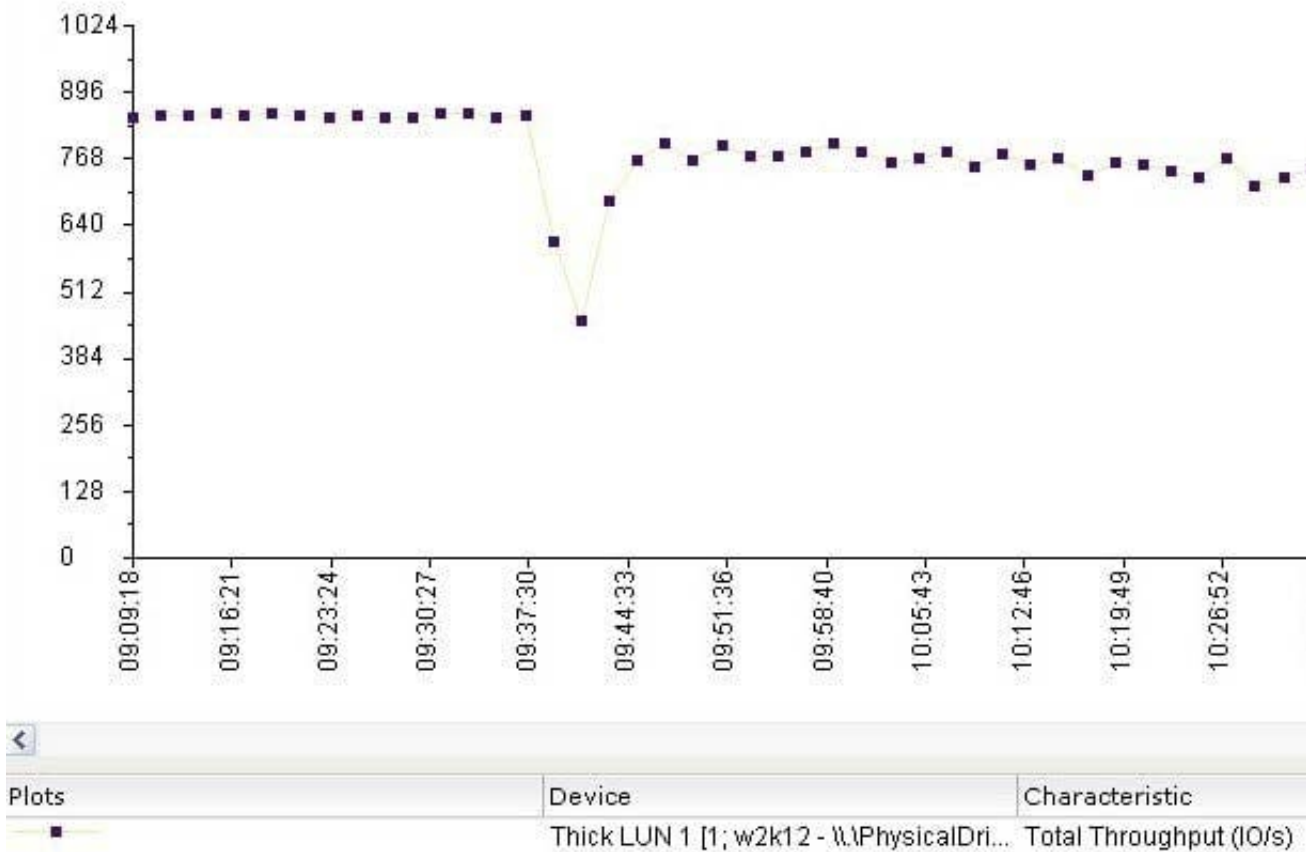
What Analyzer chart would give the customer the requested information?

- A. Detail
- B. Survey
- C. Summary
- D. IO Size Distribution

Correct Answer: A

QUESTION 14

Refer to the exhibit.



A VNX Snapshot is started on a Thick LUN at 09:37. The customer wishes to know why throughput drops immediately after the VNX Snapshot starts. What is your explanation?

- A. The VNX is configuring the tracking structure for the VNX Snapshot.
- B. Reserved LUNs are being allocated to the thick LUN.
- C. The thick LUN is being converted to a thin LUN.
- D. VNX Snapshot blocks on the thick LUN are being compressed.

Correct Answer: A

QUESTION 15

A customer is implementing a VNX for File solution in a performance-oriented application environment. There are Windows and Linux VM clients accessing the file systems. The customer wants to track both file system and DataMover utilization. The Performance Administrator prefers GUI to CLI access.

What would you recommend?

- A. Unisphere Statistics for File
- B. server_stats

C. Custom monitoring script

D. Unisphere Analyzer

Correct Answer: A

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