

VNX Solutions Design Exam for Technology Architects

1. A customer is using Unisphere Analyzer to view performance information for an existing VNX array. They are using Thick Pool LUNs for an Oracle ERP solution and are trying to determine FAST Cache usage for the LUNs, but the FAST Cache statistics are not being displayed.

A. Disable and re-enable FAST Cache to clear statistics

B. FAST Cache statistics are not available for Pool LUNs

C. Enable advanced checkbox in Analyzer settings

D. Restart statistics logging with FAST Cache checkbox enabled

Answer(s): B

2. A customer is using a VNX with tiered storage pools. They would like to maximize capacity for their NL-SAS tier. Following EMC best practices, which RAID configuration would you recommend for this customer?

A. RAID 5 (4+1)

B. RAID 5 (8+1)

C. RAID 6 (14+2)

D. RAID 6 (6+2)

Answer(s): C

3. A customer plans to deploy a SQL server farm on their fully virtually provisioned VNX array. They want to make sure the SQL volumes always get the best performance.

A. Auto-Tier

B. Lowest Available Tier

C. Highest Available Tier

D. None

Answer(s): C

4. Your customer wants to add Flash drives to their VNX array and use them as FAST Cache. They have specified that they want at least 150 GB of actual FAST Cache capacity on each SP. There are no Flash drives in the array and they want to follow EMC best practices on hot spares.

A. Three 200 GB Flash drives

B. Four 200 GB Flash drives

C. Five 200 GB Flash drives

D. Five 100 GB Flash drives

Answer(s): C

5. The customer is considering purchasing a Unified VNX and requires file system replication from multiple locations to one DR array.

A. RecoverPoint/SE CRR

B. Replication Manager

C. RecoverPoint/SE CLR

D. VNX Replicator

Answer(s): D

6. Which file protocol allows clients to access storage devices directly and in parallel?

A. CIFS

B. MPFS

C. pNFS

D. NFS

Answer(s): B

7. A customer has multiple VNX Unified storage systems. They are looking for a disaster recovery solution that makes efficient use of their limited bandwidth.

A. RecoverPoint/SE CRR

B. RecoverPoint/SE CDP

C. RecoverPoint/SE CLR

D. RecoverPoint/SE integrated with SRM

Answer(s): A

8. You are planning a technical refresh of a customer's CLARiiON storage array to a VNX. They have stated that the CLARiiON seems to perform slowly and believe that they require additional disk spindles to satisfy their performance requirements.

A. Network Storage Designer

B. SP Collect

C. E-Lab Advisor

D. Unisphere Analyzer

Answer(s): D

9. Your customer is looking to consolidate their current Windows CIFS server virtualized on VMware to a purpose built file sharing device. Their environment consists of:

A. Windows and NFS client/server version information Active Directory Version information and number of domains User mapping tools Average number of files per server and average file size Total storage used esxtop data

B. Windows and NFS client/server version information Active Directory Version information and number of domains User mapping tools Average number of files per server and average file size Total storage used perfmon/iostat data

C. Windows and NFS client/server version information Active Directory Version information and number of domains Average number of files per server and average file size Backup configuration, total storage used Anti-virus version DASD RAID Configuration

D. Windows and NFS client/server version information Active Directory Version information and number of domains User mapping tools Average number of files per server and average file size Total storage used Anti-virus version

Answer(s): B

10. You are gathering data on a customer's VNX for analysis. Which Navisphere Secure CLI command can be used to display cumulative numbers for Total Reads and Total Writes?

A. getcontrol

B. getcache

C. getlun

D. getdisk

Answer(s): A

11. Your customer is looking to consolidate their current Windows CIFS server virtualized on VMware to a purpose built file sharing device. Their environment consists of:

A. Windows client/server version information Average number of files per server and average file size Backup configuration Anti-virus version DASD RAID configuration

B. Windows client/server version information Active Directory Version information and average number of files per server Average file size Total storage used Anti-virus version

C. Windows client/server version information Active Directory version information and number of domains Backup configuration perfmon data DASD RAID configuration

D. Windows client/server version information Average number of files per server and average file size Anti-virus version Backup configuration ESXTOP data

Answer(s): B

12. When designing storage for SQL Server 2012 transaction log files, how should you allocate storage space?

A. Create a large log file LUN to improve write performance.

B. Create a large log file LUN to improve recovery performance.

C. Create a small log file LUN to improve recovery performance.

D. Create a small log file LUN to improve write performance.

Answer(s): B

13. Your customer is designing a CIFS application with very specific high CIFS I/O requirements.

A. RAID 1/0 AVM storage pool with 15K RPM drives

B. RAID 5 user-defined storage pool with SAS drives

C. RAID 5 AVM storage pool with 15K RPM drives

D. RAID 1/0 MVM storage pool with 15K RPM drives

Answer(s): D

14. Your customer is designing a VNX file system using CIFS quotas with a supported third-party application.

A. CEPA

B. VEPA

C. VAVA

D. VEE

Answer(s): D

15. A customer is migrating NFS data off the legacy non-EMC array to the VNX. The customer wants to keep downtime to a minimum.

A. rsync

B. VNX Replicator

C. SAN Copy

D. emcopy

Answer(s): A

16. Your customer wants to confirm that the model and volume manager version on an end of life Solaris host are supported for VNX connectivity.

A. Complete an Advanced Query in E-Lab Interoperability Navigator

B. Refer to the EMC Simple Support Matrix

C. Complete a Support by Product search on support.emc.com

D. Refer to the Extended Support section in E-Lab Interoperability Navigator

Answer(s): D

17. A customer has been testing the migration process from a Microsoft Windows server to a new VNX. They found that performance, security, access, and the EMCopy migration process all perform well within acceptable limits.

A. Turn off replication and remove the checkpoints

B. Remove any QoS on the replication sessions

C. Turn off deduplication and compression

D. Increase the number of ports in the LACP trunk

Answer(s): A

18. Click on the calculator icon in the upper left-hand corner. A customer has a 1 TiB LUN which will be mirrored with MirrorView/S. Analyzer shows the current workload to be 600 8 KiB IOPs with a R/W ratio of 2:1. The customer requires that the mirror should resynchronize within 90 minutes if fractured for 15 minutes or less. How much bandwidth is required to meet customer requirements?

A. 182 Mb/s

B. 91 Mb/s

C. 12 Mb/s

D. 48 Mb/s

Answer(s): A

19. A customer would like to implement SnapView but has expressed concern about performance. Which applications will cause performance issues?

A. Applications with large-block random writes

B. Applications with large-block continuous writes

C. Applications with small-block random writes

D. Applications with small-block continuous writes

Answer(s): C

20. Your customer wants to set up MirrorView/S between VNX arrays in their primary and secondary data centers. The two data centers are located 50 kilometers apart. Both VNX arrays are running Unisphere version 1.1.

A. Using Unisphere GUI

B. Using Navisphere Secure CLI

C. Using ESRS

D. Using Unisphere Service Manager

Answer(s): A
