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**Vendor:** EMC

**Exam Code:** E20-547

**Exam Name:** VNX Solutions Specialist Exam for Storage Administrators

**Version:** Demo

**QUESTION 1**

A Windows Server 2008 host is connected to a VNX series array, using dual FC adapters and running PowerPath 5.5 software. What is the correct ALUA failover mode for this host?

- A. Mode 0
- B. Mode 1
- C. Mode 2
- D. Mode 4

**Correct Answer:** D

**QUESTION 2**

After presenting a LUN to a Linux host, which utility is used to configure a partition?

- A. fdisk
- B. Disk Management
- C. Unisphere Server Utility
- D. Unisphere Service Manager

**Correct Answer:** A

**QUESTION 3**

Where is the CHAP iSCSI username and password stored on a RedHat 4 host?

- A. /etc/iscsi.conf
- B. /etc/iscsi/iscsi.conf
- C. /etc/init.d/iscsi.conf
- D. /etc/init.d/iscsi/iscsi.conf

**Correct Answer:** A

**QUESTION 4**

Which failover software is strongly recommended for a host attached to a VNX array?

- A. PowerPath
- B. MPIO
- C. DMP
- D. ALUA

**Correct Answer:** A

**QUESTION 5**

Which criterion must be met before executing the storagepool destroy command with Navisphere Secure CLI?

- A. Complete removal of all LUNs from the pool
- B. Complete removal of unused LUNs from the pool
- C. Complete removal of large LUNs from the pool
- D. Complete removal of empty LUNs from the pool

**Correct Answer:** A

**QUESTION 6**

What is an advantage of the VAAI feature when provisioning an ESXi host from a VNX array?

- A. Some workload can be offloaded from the host to the array freeing up host resources

- B. vCenter can directly communicate with the array to discover capabilities and monitor health
- C. Hosts automatically register initiators with the array and optimize initiator configuration
- D. Array connectivity is automatically load balanced and protected from path failures

**Correct Answer:** A

#### **QUESTION 7**

In which order is a File System made available to clients on the network through NFS?

- A. Create the FS, Mount the FS on the Data Mover, Export the File System, Create a mountpoint on client, mount the export on the client
- B. Make sure NFS service is running, Create the FS, Mount the FS on the Data Mover, Add a computer name, mount export on client
- C. Make sure NTP service is running, Export the File System, mount the export on the client
- D. Make sure NTP service is running, Create the FS, Mount the FS on the Data Mover, Export the File System, mount the export on the client

**Correct Answer:** A

#### **QUESTION 8**

A storage administrator has provisioned storage to a server, but only some of the LUNs are visible to the host.

What would explain why some LUNs appear to be missing?

- A. The 'missing' LUNs were not added to the storage group.
- B. The host initiators are not logged into the array.
- C. The disk alignment has not been set to the 1 MB boundary.
- D. The host agent is not connected to the storage system.

**Correct Answer:** A

#### **QUESTION 9**

Which statement is true about metaLUNs?

- A. Private LUN expansion is unsupported on metaLUNs.
- B. Expansion of metaLUNs by striping provides instant additional space to a host.
- C. MetaLUNs simplify the design and implementation process.
- D. MetaLUNs are supported by traditional RAID groups and pools.

**Correct Answer:** A

#### **QUESTION 10**

What is the maximum number of characters you can use for a VNX Block Only Storage Processor Hostname?

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

**Correct Answer:** A

#### **QUESTION 11**

A storage administrator is preparing to provision storage for a data warehouse application. What can the administrator do to maximize application performance?

- A. Use SAS drives to create a RAID 5 RAID Group with High Bandwidth Reads enabled.

- B. Use EFD drives to create a RAID 5 RAID Group with High Bandwidth Reads enabled.
- C. Choose 1024 block stripe element size when binding LUNs.
- D. Choose 128 block stripe element size when binding LUNs.

**Correct Answer:** A

**QUESTION 12**

What default option does a newly created file system have when it is NFS exported?

- A. R/W
- B. R/W/X
- C. R/O
- D. R/X

**Correct Answer:** A

**QUESTION 13**

An administrator tries to modify the quota settings on a CIFS share using a Windows 2000 server, but the Quota tab does not exist in the network drive properties. What could be a possible cause?

- A. Exporting is implemented at the file system subdirectory level on VNX OE for File.
- B. Windows users cannot modify the quota settings.
- C. The user does not have administrator privileges on this share.
- D. Quotas can be managed only with Windows 2003 or Windows 2008.

**Correct Answer:** A

**QUESTION 14**

What occurs after data compression of a RAID-group LUN?

- A. Source LUN is unbound from the RAID-group.
- B. The LUN is defragmented.
- C. Freed space is returned to the storage pool.
- D. Host I/O is restarted

**Correct Answer:** A

**QUESTION 15**

During the installation process of a VNX for Block and File system, you are prompted to change passwords for the default accounts.

Which user password can be changed?

- A. sysadmin
- B. storageadmin
- C. admin
- D. administrator

**Correct Answer:** A

**QUESTION 16**

What are features of VNX Snapshots?

- A. Uses redirect on first write.  
Lower write performance impact.
- B. Uses copy on first write.  
Supported with pool-based LUNs.
- C. Uses redirect on first write.

Supported with all LUN types.

- D. Uses copy on first write.  
Does not require reserve LUN pool.

**Correct Answer:** A

**QUESTION 17**

Which two protocols can be used for DNS communication on a Data Mover?

- A. TCP and UDP
- B. TCP and ICMP
- C. UDP and ICMP
- D. UDP and TLS

**Correct Answer:** A

**QUESTION 18**

How do storage pool thick LUNs affect capacity?

- A. A storage pool thick LUN uses slightly more capacity than the amount of user data written
- B. A storage pool thick LUN uses less capacity than the amount the server operating system sees
- C. Capacity of a storage pool thick LUN uses the same capacity as the server operating system sees
- D. Capacity of a storage pool thick LUN uses less user capacity than a traditional LUN

**Correct Answer:** A

**QUESTION 19**

What is the correct VNX Block based VAAI operation?

- A. Array Accelerated Full Copy
- B. Array Accelerated Bulk copy
- C. Thick Lun Provisioning
- D. Pause and Resume

**Correct Answer:** A

**QUESTION 20**

When creating a SnapView session, where can a consistent start occur?

- A. On multiple source LUNs
- B. On multiple target LUNs
- C. On multiple reserved LUNs
- D. On multiple private LUNs

**Correct Answer:** A

**QUESTION 21**

What is a critical capacity consideration when configuring traditional RAID Groups on a VNX array?

- A. Larger RAID 5 groups maximize the capacity available
- B. Larger RAID 6 groups maximize the capacity available
- C. Smaller RAID 6 groups maximize the capacity available
- D. Smaller RAID 5 groups maximize the capacity available

**Correct Answer:** A

**QUESTION 22**

In a VNX Unified system, how can the lost+found and etc directories be hidden from the client when exporting a file system?

- A. Export the file system at the subdirectory level and not the root file system
- B. Use FDISK to mark the partition active prior to exporting
- C. Leave the Root Hosts section empty when exporting
- D. Select the Host Access Read-only check box prior to exporting.

**Correct Answer: A**

**QUESTION 23**

What is a critical performance and availability consideration when configuring traditional RAID Groups on a VNX array?

- A. Larger RAID 5 groups have increased risk to availability and higher IO throughput
- B. Larger RAID 5 groups have decreased risk to availability and lower IO throughput
- C. Smaller RAID 5 groups have increased risk to availability and lower IO throughput
- D. Smaller RAID 5 groups have decreased risk to availability and higher IO throughput

**Correct Answer: A**

**QUESTION 24**

Which feature integrates VNX storage provisioning management within vCenter?

- A. Virtual Storage Integrator (VSI)
- B. VMware Aware Storage API (VASA)
- C. vStorage API for Array Integration (VAAI)
- D. VNX Unisphere Service Manager (USM)

**Correct Answer: A**

**QUESTION 25**

What is indicated by a blue enclosure power LED on a 25-slot DPE?

- A. AC or DC power is applied and all outputs are in operating range.
- B. Any enclosure fault, including SP faults, has occurred.
- C. Any outputs or inputs are out of operating range.
- D. The battery backup system is fully charged.

**Correct Answer: A**

**QUESTION 26**

A storage administrator wants to enable data compression on inactive backup volumes that are configured on storage pool LUNs.

How does VNX data compress storage pool LUNs?

- A. Storage pool LUNs are compressed in place.
- B. Storage pool LUNs are migrated to a new storage pool LUN with the compression attribute enabled.
- C. VNX does not support compression of storage pool LUNs.
- D. Storage pool LUNs are migrated to a new RAID-group LUN with the compression attribute enabled.

**Correct Answer: A**

**QUESTION 27**

A Linux host has been set up and successfully connected to the VNX array, but the local administrator cannot issue CLI commands.

What is a possible explanation of this behavior?

- A. The local administrator was not added to the host agent configuration file
- B. The host is only connected to one SP on the VNX array.
- C. The host agent must be stopped for the utility to work.
- D. Linux iSCSI CHAP data was entered on the target, but not the initiators.

**Correct Answer:** A

#### **QUESTION 28**

Where can the VNX Snapshot parameters be configured?

- A. Pool advanced tab
- B. Raid Group advanced tab
- C. Pool VNX snapshot tab
- D. Raid Group snapshot tab

**Correct Answer:** A

#### **QUESTION 29**

A company has many VNX file systems that they currently export using NFS. Their goal is to simplify the management of these file systems for the Linux clients. How can the storage team help the company achieve this goal?

- A. Use the automounter feature with the autofs service to automatically mount file systems.
- B. Create administrative exports to the file system roots and community exports for their subdirectories.
- C. Create AVM file systems and enable auto extend on the file systems.
- D. Mount each file system manually to maintain control of individual export permissions.

**Correct Answer:** A

#### **QUESTION 30**

What is the minimum number of administrative accounts for a Unisphere storage domain?

- A. 1
- B. 2
- C. 3
- D. 4

**Correct Answer:** A

#### **QUESTION 31**

The Unified Storage Management plugin for VMware assists in automating the provisioning of storage on a VNX Storage System. What types of storage can be provisioned through the Provision Storage wizard?

- A. NFS, VMFS and RDM
- B. NFS, VMFS, RDM and iSCSI
- C. VMFS and iSCSI
- D. NFS and CIFS

**Correct Answer:** A

#### **QUESTION 32**

How does host file system defragmentation of pool LUNs affect VNX performance?

- A. Causes heavy loading of cache and back-end ports and may result in a decrease in system performance.
- B. Does not cause additional VNX system load and will not affect system performance.

- C. Causes heavy loading of cache and front-end ports and may result in a decrease in system performance.
- D. Reduces loading of cache and back-end ports and may result in an increase in system performance.

**Correct Answer:** A

**QUESTION 33**

What is the maximum file system size currently supported on a VNX system?

- A. 2 TB
- B. 16 TB
- C. 32 TB
- D. 64 TB

**Correct Answer:** B

**QUESTION 34**

The user authentication and system management operations to the VNX with the Unisphere GUI or CLI are performed over the network using which industry standard protocols?

- A. Secure Socket Layer (SSL), Transport Layer Security (TLS) and Secure Shell (SSH).
- B. Password Authentication Protocol (PAP), Transport Layer Security (TLS) and Secure Shell (SSH).
- C. Secure Socket Layer (SSL), Transport Layer Security (TLS) and NT LAN Manager (NTLM).
- D. Secure Socket Layer (SSL), Generic Security Services (GSS) and Secure Shell (SSH).

**Correct Answer:** A

**QUESTION 35**

A Storage Administrator is provisioning storage from a VNX array to a Windows 2003 host.

Which best practice should be considered to ensure maximum performance?

- A. Align the user data on LUNs on a 1024kB boundary with Diskpart
- B. Align the user data on LUNs on a 1024kB boundary using the VNX Alignment Offset
- C. Set the cache page size to 4kB for mixed environments
- D. Set the cache page size to 16kB for mixed environments

**Correct Answer:** A

**QUESTION 36**

In which file format can Unisphere monitoring graphical statistics be exported?

- A. csv
- B. txt
- C. pdf
- D. doc

**Correct Answer:** A

**QUESTION 37**

How does the VNX handle LUN ownership changes so that the access path to the LUN is available to both SPs simultaneously?

- A. By using ALUA Failover Mode.
- B. By the SPs sharing ownership of the LUNs.
- C. By the host software being aware of SP ownership.
- D. By the LUN being trespassed.



**Correct Answer:** A

**QUESTION 38**

You are in the process of provisioning a new NAS volume with Unisphere. Where under the Unisphere Monitoring and Alerts section can you monitor or cancel the actions?

- A. Background Tasks for File
- B. Notifications for File
- C. Event Logs for File
- D. Setup Wizard for File

**Correct Answer:** A

**QUESTION 39**

A SnapView snapshot can have how many snapshots of the source LUN?

- A. 8
- B. 24
- C. 128
- D. 256

**Correct Answer:** A

**QUESTION 40**

What describes the process to read a Snapview Snapshot from a secondary host?

- A. Secondary host issues read.  
Unchanged data is read from the source LUN.  
Old data is read from the reserve LUN pool.
- B. Secondary host issues read.  
Data is read from the source LUN.
- C. Secondary host issues read.  
Old data is copied to the reserve LUN pool.  
New data is read from the source LUN.
- D. Secondary host issues read.  
Data is read from the reserve LUN pool.

**Correct Answer:** A

**QUESTION 41**

In addition to EFD 3.5, which drive options are supported in VNX series arrays?

- A. SAS 3.5 and 2.5, NL-SAS 3.5
- B. SAS 3.5 and 2.5, SATA 2.5
- C. FC 3.5 and 2.5, SATA 3.5 and 2.5
- D. FC 3.5 and 2.5, SATA 3.5 only

**Correct Answer:** A

**QUESTION 42**

What is the maximum number of Fibre Channel initiator ports, per Linux host, supported by VNX for Block?

- A. 4
- B. 8
- C. 16
- D. 32

**Correct Answer:** C

**QUESTION 43**

Where are VNX SnapView fracture logs stored?

- A. Clone private LUN
- B. Reserved LUN pool
- C. Clone LUN
- D. Source LUN

**Correct Answer:** A

**QUESTION 44**

What can be used to Discover iSCSI targets?

- A. Unisphere Server Utility
- B. Unisphere Host Agent
- C. Unisphere Initialization Utility
- D. Unisphere Service Manager

**Correct Answer:** A

**QUESTION 45**

What should be done prior to manually stopping a SnapView session that is running?

- A. Flush the host buffers and deactivate the snapshot
- B. Save all memory mapping entries to the COFW log
- C. Remove the source LUN from the SnapView session
- D. Remove the global pool LUN associated with the SnapView session from the reserved LUN pool.

**Correct Answer:** A

**QUESTION 46**

Which Unisphere wizard can automatically allocate all available disk storage and present it as private LUNs?

- A. Disk Provisioning Wizard for File
- B. Backend Bus Reset Wizard
- C. Celerra Setup Wizard
- D. File System Wizard

**Correct Answer:** A

**QUESTION 47**

For what reason would you increase the default Ethernet frame MTU on a VNX Datamover?

- A. To match the end-to-end network connectivity to the client
- B. To improve network performance in a mixed MTU environment
- C. To increase the FAST Cache performance
- D. There is no need to change the default Ethernet frame size as it is already optimized for performance

**Correct Answer:** A

**QUESTION 48**

Which authority(ies) signs certificates generated for Data Movers?

- A. External CA, Control Station
- B. Data Movers

- C. Management server
- D. Data Movers, management server

**Correct Answer:** A

**QUESTION 49**

What occurs after data compression of a storage pool LUN?

- A. Freed space is returned to the storage pool.
- B. The LUN is defragmented.
- C. Source LUN is unbound from RAID-group.
- D. Host I/O is restarted.

**Correct Answer:** A

**QUESTION 50**

Which dependency will prevent a Virtual Network device from being deleted?

- A. In use by another virtual device.
- B. Has a host attached to it.
- C. The VDM is in loaded state.
- D. Has VLAN Tag assigned.

**Correct Answer:** A

**QUESTION 51**

You are migrating a LUN within a VNX series array to an equal size LUN but with a different RAID type.

Which step is required to start using the new LUN?

- A. Nothing. The migration process is non-disruptive.
- B. Ensure the LUN is in the proper storage group at the time of cut-over
- C. Ensure the size of the destination LUN is equal to or greater than the source LUN
- D. Quiesce the host prior to final cut-over

**Correct Answer:** A

**QUESTION 52**

What happens when a reverse synchronization completes without Protected Restore Mode enabled?

- A. Only the reverse-synchronized clone remains unfractured.
- B. Host writes to the source LUN are not mirrored to clone.
- C. All clones will be fractured.
- D. The gold copy clone used for restore will remain as is.

**Correct Answer:** A

**QUESTION 53**

A Storage Administrator is configuring a new VNX array. There are 10 MS Exchange Servers to be connected to this array.

What configuration will maximize performance while isolating the backend IO traffic from each host?

- A. Thick LUNs from traditional RAID Groups
- B. Thick Pool based LUNs from one wide pool
- C. Thick Pool based LUNs from several isolated pools
- D. Thin Pool based LUNs from one wide pool

**Correct Answer:** A

**QUESTION 54**

What will be the status of FAST Cache on the LUNs that were created prior to the installation of Fast Cache Enabler?

- A. FAST Cache will be disabled, but can be enabled manually.
- B. FAST Cache will be enabled automatically on the LUNs after the FAST Cache Enabler is installed.
- C. FAST Cache cannot be enabled on the LUNs that were created before the installation of FAST Cache Enabler.
- D. FAST cache cannot be enabled on the LUN Level but can be enabled at the Storage Pool Level.

**Correct Answer:** A

**QUESTION 55**

What is a valid characteristic of striped metaLUNs?

Striped metaLUNs:

- A. must be built from the same RAID types and sizes
- B. can mix thick and thin LUNs
- C. cannot be expanded once created
- D. components have a varying performance profile

**Correct Answer:** A

**QUESTION 56**

What is the minimum acceptable number of drives in a RAID 6 pool on a VNX array?

- A. 3
- B. 4
- C. 8
- D. 16

**Correct Answer:** B

**QUESTION 57**

A customer has an application that uses a small amount of capacity but has very high performance requirements. Their new VNX is fully virtually provisioned and uses FAST VP storage pools. The customer wants to configure the LUNs for this application on high performance storage.

How should the LUNs be initially configured?

- A. Using the Highest Available Tier option.
- B. A traditional RAID-group LUN on Flash drives should be used.
- C. Using the Optimize for Pool Performance option.
- D. A traditional RAID-group LUN on SAS drives should be used.

**Correct Answer:** A

**QUESTION 58**

Which RecoverPoint configuration details can be presented in report format when using Data Protection Advisor?

- A. Replication sets
- B. Replication lag
- C. Link state change
- D. RPA configuration changes

**Correct Answer: A**

**QUESTION 59**

The file system for an SQL database is running low on available capacity. The database is running on a Windows Server 2008 host connected to a VNX Block array. The file system LUN is configured in a FAST VP enabled pool.

How can the storage administrator add capacity without disrupting the users?

- A. Expand the LUN online and then extend the file system on the host
- B. Create a larger LUN then use VNX LUN migration to migrate the data
- C. Expand the LUN into a MetaLUN and extend the file system on the host
- D. The LUN cannot be expanded or migrated without disruption to the users

**Correct Answer: A**

**QUESTION 60**

What specific VNX model uses a Storage Processor Enclosure?

- A. VNX 5700
- B. VNX 5100
- C. VNXe 3300
- D. VNX 5300

**Correct Answer: A**

**QUESTION 61**

A customer has an application that uses a small amount of capacity but has very high performance requirements. The customer initially configured the LUNs using the Highest Available Tier option and now wants to configure the FAST VP policy to ensure LUNs allocated to this application always stay on higher performance storage.

What do you advise?

- A. The policy should be set to Highest Available Tier.
- B. Initially set the policy to Lowest Available Tier, then Auto-Tier.
- C. The policy should always be set to Auto-Tier.
- D. Initially set the policy to Highest Available Tier, then Auto-Tier.

**Correct Answer: A**

**QUESTION 62**

Which Linux kernel supports dynamic LUN scanning?

- A. 2.3
- B. 2.4
- C. 2.5
- D. 2.6

**Correct Answer: D**

**QUESTION 63**

By default, what do you have to install on an ESX 4.x host to auto register with a VNX for Block storage system?

- A. Nothing; the host will automatically register with the VNX storage system
- B. Only Unisphere Host Agent on the ESX host

- C. Only Navisphere Secure CLI on the ESX host
- D. Both Unisphere Host Agent and Navisphere CLI on the ESX host

**Correct Answer:** A

**QUESTION 64**

What EMC software product is used when replacing an I/O module on an EMC VNX Block Only storage system?

- A. Unisphere Service Manager (USM)
- B. Navisphere Service Taskbar (NST)
- C. CLARiiON Array Properties (CAP)
- D. Unisphere Server Utility

**Correct Answer:** A

**QUESTION 65**

A VNX SnapSure snapshot has recently been created on a production file system (PFS). The second block in the PFS will be modified for the second time.

How will SnapSure handle the bitmap value for this file system update?

- A. It remains unchanged; PFS is updated
- B. It is changed to 1; PFS is updated
- C. It remains unchanged; SavVol is updated
- D. It is changed to 1; SavVol is updated

**Correct Answer:** A

**QUESTION 66**

What software features are included in the VNX Application Protection Suite?

- A. Replication Manager and Data Protection Advisor for BLOCK Replication
- B. Recoverpoint/SE CRR, Replicator, Mirrorview A/S
- C. Snapview, Snapsure, Recoverpoint/SE CDP
- D. Event enabler, File-level Retention, host encryption

**Correct Answer:** A

**QUESTION 67**

What is a characteristic of tree quotas?

- A. Tree quotas cannot be set on existing directories
- B. A maximum of 4096 quota trees can be set on a single file system
- C. Tree quota policies are applied by default
- D. Quotas are recommended on the root of a file system

**Correct Answer:** A

**QUESTION 68**

A user is preparing to install a disk drive. Where can they verify that the disk drive is compatible with the VNX system?

- A. VNX Series Disk and OE Matrix
- B. Unisphere Server Utility
- C. Unisphere
- D. USM

**Correct Answer:** A

**QUESTION 69**

You are configuring the reserve LUN pool on a new VNX. What LUN types can be added to the reserve LUN pool?

- A. Thick pool LUNs and traditional LUNs.
- B. Traditional LUNs only.
- C. Thick and Thin pool LUNs.
- D. All pool LUNs and traditional LUNs.

**Correct Answer:** A

**QUESTION 70**

What is the default File System Type for VNX File?

- A. UxFS
- B. RawFS
- C. MGFS
- D. MPFS

**Correct Answer:** A

**QUESTION 71**

A customer has an application that uses a lot of capacity but has very low performance requirements. Their new VNX is fully virtually provisioned and uses FAST VP storage pools. The customer wants to configure the LUNs for this application on low performance storage.

How should the LUNs be initially configured?

- A. Using the Lowest Available Tier option.
- B. A traditional RAID-group LUN on SATA drives should be used.
- C. Using the Optimize for Pool Performance option.
- D. A traditional RAID-group LUN on NL-SAS drives should be used.

**Correct Answer:** A

**QUESTION 72**

What describes the VNX Snapview Snapshot source LUN write process?

- A. Host issues write.  
Old data is copied to the reserve LUN pool.  
New data is written to the source LUN.
- B. Host issues write.  
New data is written to a new location.
- C. Host issues write.  
Old data is copied to the source LUN.  
New data is written to the reserve LUN pool.
- D. Host issues write.  
Data is written to the reserve LUN pool.

**Correct Answer:** A

**QUESTION 73**

A file system has auto\_extend enabled. If the file system size is greater than the extend\_size value, what will happen when the file system reaches its HWM?

- A. The file system is extended by five percent of its size.
- B. The extend\_size value cannot be less than the file system size.

- C. The file system is extended by three percent of its size.
- D. The file system will not be extended.

**Correct Answer:** A

**QUESTION 74**

When moving a VDM to a different Data Mover, what is one requirement of the target Data Mover?

- A. Network interface names used on the source must be the same on the target.
- B. The VDM must be loaded on the Source.
- C. A CIFS server with the same name must exist on the Target.
- D. The target Data Mover must be configured as a Standby.

**Correct Answer:** A

**QUESTION 75**

What are the available Usermapper roles?

- A. Primary, Secondary, and Client
- B. Primary, Local, and Remote
- C. Local, Remote, and Client
- D. Active, Passive, and Standby

**Correct Answer:** A

**QUESTION 76**

Which VDM state results in the VDM being mounted during a Data Mover boot?

- A. Loaded
- B. Mounted
- C. Unloaded
- D. Ready

**Correct Answer:** A

**QUESTION 77**

Where can CPLs be created?

- A. Traditional LUNs
- B. Thick pool LUNs
- C. Thin pool LUNs
- D. Clone groups

**Correct Answer:** A

**QUESTION 78**

Which tool is used to complete the initialization of only a VNX System for Block?

- A. Unisphere Storage System Initialization Wizard
- B. VNX Installation Assistant
- C. Unisphere Service Manager
- D. Unisphere Server Utility

**Correct Answer:** A

**QUESTION 79**

When installing additional VNX (File) systems within an existing environment, what is a requirement for



Usermapper?

- A. The additional VNXs will require the default Primary Usermapper for Data Mover 2 to be changed to the Secondary Usermapper role.
- B. The additional VNXs will require the default Primary Usermapper for the Control Station to be changed to the Primary Usermapper role.
- C. The additional VNXs will require the default Primary Usermapper for the Control Station to be changed to the Secondary Usermapper role.
- D. The additional VNXs will require the default Primary Usermapper for Data Mover 2 to be changed to the Primary Usermapper role.

**Correct Answer:** A

**QUESTION 80**

The file system for an SQL database is running low on available capacity. The database is running on a Windows Server 2008 host connected to a VNX Block array. The file system LUN is configured using a traditional RAID Group.

How can the storage administrator add capacity without disrupting the users?

- A. Create a larger LUN, use VNX LUN migration to migrate the data, and extend the File System on the host
- B. Create a larger LUN, use VDM migration to migrate the data, and extend the File System on the host
- C. Expand the thick pool LUN online without disruption to the host
- D. The LUN cannot be expanded or migrated without disruption to the users

**Correct Answer:** A

**QUESTION 81**

What is the back-end bus speed, per lane, on the VNX series array?

- A. 2 Gb
- B. 4 Gb
- C. 6 Gb
- D. 8 Gb

**Correct Answer:** C

**QUESTION 82**

After presenting a LUN to a Windows Server 2003 host, which tool is used to align the data and partition the disk?

- A. diskpart
- B. fdisk
- C. chkdisk
- D. format

**Correct Answer:** A

**QUESTION 83**

Which VNX feature improves the storage capacity utilization by only allocating storage as needed for both Block and File storage?

- A. VNX Thin Provisioning
- B. VNX Deduplication and Compression
- C. VNX Total Efficiency Pack
- D. Navisphere Analyzer

**Correct Answer:** A

**QUESTION 84**

Before creating a CIFS server that will participate in a Windows Domain, what EMC best practice should you follow?

- A. Configuring NTP synchronization with a KDC
- B. Creating placeholder entries in the Active Directory
- C. Populating DNS with the new host entries
- D. Performing a health check on the VNX system

**Correct Answer:** A

**QUESTION 85**

When provisioning a new logical unit, which RAID group property is the basis for limiting the LUN capacity that can be specified?

- A. Largest contiguous free space
- B. Total formatted capacity
- C. Total raw capacity
- D. Largest user capacity

**Correct Answer:** A

**QUESTION 86**

A storage administrator creates a clone of a source LUN. Which command should be used to make the clone available to the secondary server?

- A. fracture
- B. synchronize
- C. activate
- D. start session

**Correct Answer:** A

**QUESTION 87**

Which component of Replication Manager controls replication jobs and stores data about each replica?

- A. Server
- B. Database
- C. Agent
- D. Appliance

**Correct Answer:** A

**QUESTION 88**

What is the EMC-recommended cache page size for Microsoft Exchange 2007 environments?

- A. 4 KB
- B. 8 KB
- C. 12 KB
- D. 16 KB

**Correct Answer:** B

**QUESTION 89**

Which drive type is supported in the 2U, 25-drive DAE5S?

- A. SAS
- B. NL-SAS
- C. Flash
- D. Fibre Channel

**Correct Answer:** A

**QUESTION 90**

A storage administrator configured and presented storage pool LUNs to an MSCS cluster. A few weeks later, the cluster administrator reported the LUNs are too large and smaller LUNs are needed.

What do you advise?

- A. The MSCS Cluster will need to be rebuilt.
- B. Use the LUN shrink feature.
- C. The VLUN migration feature must be used.
- D. Use SANCopy to migrate to smaller LUNs.

**Correct Answer:** A

**QUESTION 91**

A Storage Administrator is configuring a new VNX array. There are 10 MS Exchange Servers to be connected to this array. Each of these Exchange servers hosts users from a different time zone so performance spikes are expected at different times during the day.

What configuration will maximize overall performance for these hosts?

- A. Thick LUNs from traditional RAID Groups
- B. Thick Pool based LUNs from one wide pool
- C. Thick Pool based LUNs from several isolated pools
- D. Thin Pool based LUNs from several isolated pools

**Correct Answer:** B

**QUESTION 92**

A storage administrator wants to enable data compression on inactive backup volumes that are configured on RAID-group LUNs.

How does VNX compress RAID-group LUNs?

- A. RAID-group LUNs are migrated to a new storage pool LUN with the compression attribute enabled.
- B. VNX does not support compression of RAID-group LUNs.
- C. RAID-group LUNs are migrated to a new RAID-group LUN with the compression attribute enabled.
- D. RAID-group LUNs are compressed in place.

**Correct Answer:** A

**QUESTION 93**

Which condition must be met to expand a LUN?

- A. LUNS cannot be in-use by layered applications
- B. LUNS must be in a storage group
- C. LUNS must be in use by a layered application
- D. LUNS cannot be in a storage pool

**Correct Answer:** A

**QUESTION 94**

Which VNX feature is used to reclaim unused storage space?

- A. LUN shrink
- B. LUN migration
- C. Thin provisioning
- D. RAID group defragmenting

**Correct Answer:** A

**QUESTION 95**

What is the minimum acceptable number of drives in a RAID 5 pool on a VNX array?

- A. 3
- B. 4
- C. 5
- D. 9

**Correct Answer:** A

**QUESTION 96**

What is the location of the host agent configuration file on a Linux host?

- A. /etc/Unisphere/agent.config
- B. /sbin/Unisphere/agent.config
- C. /etc/init.d/agent.config
- D. /etc/Unisphere/bin/agent.config

**Correct Answer:** A

**QUESTION 97**

What is mandatory when creating a file system on VNX for File?

- A. A production file system should reside entirely on a single storage array.
- B. A metavolume must be at least 1024 MB to accommodate a file system.
- C. You can only create a file system on root metavolumes that are not in use.
- D. By default, all file systems are created as RwFS.

**Correct Answer:** A

**QUESTION 98**

A storage administrator configured and presented storage pool LUNs to a Failover Cluster. A few weeks later, the cluster administrator reported the LUNs are too large and smaller LUNs are needed.

What do you advise?

- A. Use the LUN shrink feature.
- B. The VLUN migration feature must be used.
- C. Use SAN Copy to migrate to smaller LUNs.
- D. The Failover Cluster will need to be rebuilt.

**Correct Answer:** A

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