EMC E20-526 Exam

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Question No: 1
When using the XtremIO PoC Toolkit, what is the purpose of the Age phase?

A. Continuously write to a specific range of logical block addresses to test Flash durability

B. Overwrite each LUN multiple times to ensure they contain all unique data

C. Test the performance of the All-Flash array with non-production static data

D. Scatter writes across the entire array to simulate ordinary use of the system

Answer: D

Question No: 2
A user attempts to create a quorum disk for a host cluster. Volume parameters are:
However, the volume creation fails. What caused the process to fail?

A. Quorum disks cannot have an 8kB block size

B. Volume size is too small

C. Volume name is invalid

D. XtremIO volumes cannot be quorum disks

Answer: B

Question No: 3
You have been asked to design an XtremIO storage array solution that will be used for two large applications workloads. One overload will generate approximately 150,000 write IOPs with an average 4 kB 1/0 size. The second write workload will have an average I/O size of 128 kB and will generate approximately 2 GB/s of throughput.
At a minimum, how many X-Bricks are needed in a single cluster to meet this requirement?

A. 2

B. 4

C. 6

D. 8

Answer: A

Question No: 4
How can REST API commands be run to manage and monitor an XtremIO cluster?

A. From the REST API CLI built into each X-Brick

B. From the REST API GUI built into each X-Brick

C. From a third-party GUI

D. From the REST API tab in the XMS GUI

Answer: C

Question No: 5
How should a storage administrator navigate to different XtremIO clusters from the XMS GUI if the administrator has more than one cluster managed by the same XMS?

A. Click the Cluster Name on the Menu bar near the top of the screen

B. Click the Inventory List button on the Menu bar

C. Click the Administration tab and locate the Cluster Name

D. Click the Cluster Name on the Status bar at the bottom of the screen

Answer: B

Question No: 6
A customer has a large ESX server environment they are considering deploying to XtremIO for a VDI implementation. To determine a baseline of the environment, you are proceeding with documenting each server's CPU, NIC, and disk utilization statistics. The customer has provided you with direct CU access to the servers to conduct this assessment.
Which utility should be used to monitor these performance parameters?

A. esxtop

B. resxtop

C. top

D. iostat

Answer: B

Question No: 7
A customer has recently purchased an XtremIO 10 TB single X-Brick cluster for an implementation of Oracle RAC. The customer wants your help with integrating Oracle with their new XtremIO cluster.
The customer has three DATA disk groups, two REDO disk groups, and four FRA disk groups. How many XtremlO LUNs should be assigned to the FRA disk groups?

A. 2

B. 4

C. 6

D. 8

Answer: D

Question No: 8
Which multipathing software is supported by XtremIO?

A. PowerPath/VE and NMP on ESXi hosts

B. MPIO on non-clustered Microsoft Windows hosts only

C. PowerPath/VE on Microsoft Windows VMs hosted by ESXi

D. Native MPIO on IBM AIX clusters

Answer: A

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Question No: 9
Based on best practice, what is the maximum number of paths a host should have to an XtremIO volume?

A. 4

B. 8

C. 16

D. 32

Answer: C

Question No: 10
A new 500 GB VM disk is created on a database that resides on an XtremIO LUN. The VMware administrator plans to provision the disk using the thick provisioned eager zeroed format.
How much physical XtremIO capacity will be allocated during this process?

A. 5 GB

B. 10 GB

C. 50 GB

D. None

Answer: D

Question No: 11
A customer wants to purchase an XtremIO array. After the array is installed, the customer wants to initially disable encryption. What is the result of enabling encryption on an array that is already being used?

A. Data will remain in place but the XtremIO cluster services will need to be temporarily shutdown.

B. Data will remain in place and there will be no interruption to the XtremIO cluster services.

C. Data will be erased but there will be no interruption to the XtremIO cluster services.

D. Data will be erased and the XtremIO cluster services will be temporarily shutdown.

Answer: A

Question No: 12
An XtremIO administrator is having a problem with performance and is troubleshooting the issue.
What is an accurate statement about I/O transfers?

A. As I/O size increases, IOPs increase, and latency increases

B. As I/O size increases, IOPs decrease, and bandwidth increases

C. As I/O size decreases, IOPs increase, and bandwidth increases

D. As I/O size decreases, IOPs decrease, and latency increases

Answer: A

Question No: 13
You are designing an XtremIO solution for a potential customer. If the server and storage information is available, which information should be documented regarding the customer's capacity expectations?

A. Capacity requirements on a per data center basisExpandability/scalabilityPerformance requirements determined on a server-to-server basis

B. Capacity requirements on a per volume basisExpandability/scalabilityPerformance requirements determined on a server-to-server basis

C. Capacity requirements on a per volume basisCompression rates/scalabilityPerformance requirements determined on a server-to-server basis

D. Capacity requirements on a per data center basisExpandability/scalabilityPerformance requirements determined holistically

Answer: B

Question No: 14
A customer has purchased a two X-Brick XtremIO array with a physical XtremIO Management

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Server (XMS). The customer plans to use all Fibre Channel connectivity in the environment. What are the physical connectivity requirements for the cluster?

A. 1 Copper Ethernet connection, 4 Fibre Channel Optical connections

B. 3 Copper Ethernet connections, 8 Fibre Channel Optical connections

C. 4 Copper Ethernet connections, 16 Fibre Channel Optical connections

D. 5 Copper Ethernet connections, 8 Fibre Channel Optical connections

Answer: B

Question No: 15
A storage administrator is configuring SAN switches and zoning to connect an eight X-Brick XtremIO array. A VMware ESXi server is hosted on a blade chassis with 16 HBA ports. In addition, the SAN is composed of two separate SAN switches.
What is the recommended XtremIO best practice for zoning?

A. Two HBA connections per host connected to a single switchMultiple initiators/multiple targets per zoneMaximum of 4 paths for each LUN per zone

B. Connect a single storage controller to the first switchConnect a second storage controller to the second switchSingle initiator/multiple targets per zoneMaximum of 6 paths for each LUN per zone

C. Connect all Nl storage controllers to the first switchConnect N2 storage controllers to the second switchMultipath all host ports to single LUNs per zoneMaximum of 4 paths for each LUN per zone

D. Multiple HBA connections per hostSingle initiator/single target per zoneMaximum of 2 paths to each X-Brick for each initiatorEach host connected to each SAN switch

Answer: B

Question No: 16
Based on XtremIO Data Protection, how many dedicated hot spare disks per X-Brick are required?

A. 0

B. 1

C. 2

D. 3

Answer: A

Question No: 17
When using XtremIO storage with Solaris (SPARC), what is the EMC recommended I/O size that will deliver sequential I/O more efficiently to XtremIO?

A. 1 MB

B. 2 MB

C. 4 MB

D. 8 MB

Answer: C

Question No: 18
Which level of granularity does XtremIO deduplication run?

A. Variable 8 kB

B. Variable 32 kB

C. Fixed 8 kB

D. Fixed 32 kB

Answer: C

Question No: 19
Which operation is performed when an XtremIO Snapshot is created?

A. Pointers to the ancestor metadata are created for the snapshot

B. Space equal to the size of the ancestor is allocated to the snapshot

C. A reserved space is created for new snapshot data

D. A deduplication pass is immediately run against the snapshot

Answer: A

Question No: 20
A storage administrator wants to add a volume to their XtremIO storage array using the RESTful API.
Which RESTful method should be used to complete this task?

A. HTTP POST

B. HTTP PATCH

C. HTTP LINK

D. HTTP PUT

Answer: A

Question No: 21
Refer to the exhibit.

Block size/IOPS	Single X-Brick – FC Connectivity						
Read/Write mix	100%R	80%/20%	70%/30%	50%/50%	30%/70%	20%/80%	100%W
512b	244,950	156,651	135,752	109,434	91,818	86,003	75,820
1K	244,840	156,814	136,096	109,300	92,150	86,103	76,293
2k	244,299	156,843	136,157	109,424	92,813	86,340	76,004
4k	243,655	156,563	135,376	109,205	93,068	86,181	75,857
8k	243,831	181,200	163,430	136,187	116,679	108,606	95,241
16k	154,240	109,849	97,069	77,777	64,731	59,666	51,776
32k	94,169	61,813	53,666	42,433	34,880	32,077	27,627
64k	50,170	32,405	28,365	22,662	18,683	17,116	14,660
128k	25,128	16,153	14,263	11,582	10,120	8,896	7,605
256k	12,116	7,692	6,841	5,695	4,886	4,522	3,885
512k	4,572	3,182	2,886	2,480	2,216	2,102	1,886
1M	2,264	1,582	1,440	1,238	1,104	1,050	944

A customer has a VMware Horizon View environment with the following characteristics:
What is the maximum recommended number of VDIs the XtremIO cluster can support during a boot storm?

A. 1625

B. 1833

C. 3250

D. 5094

Answer: A

Question No: 22
You have worked with a customer to successfully evaluate their existing server environment using the MiTrend data analysis tool. You have collected the resulting reports and aggregated the data set.
You determine the customer's application workload generates a 50:50 read/write ratio with an average of SOOK IOPs during peak business hours.
Which recommended XtremIO model meets the customer's needs?

A. Starter X-Brick cluster

B. Single X-Brick cluster

C. Two X-Brick cluster

D. Four X-Brick cluster

Answer: D

Question No: 23
A customer has a VMware vSphere environment running Native Multipathing (NMP). Which path selection policy should be set for optimal performance when connected to an XtremIO cluster?

A. Fixed AP

B. Most Recently Used

C. Fixed

D. Round Robin

Answer: D

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Question No: 24
A customer is interested in transitioning their traditional infrastructure to the Cloud by implementing ViPR software-defined storage in an XtremIO environment. Which capabilities will EMC ViPR software-defined storage provide to XtremIO?

A. Delivers SaaSCentralized management and monitoringChargeback and billing capabilities

B. Chargeback reporting capabilityCentralizes reactive monitoring capabilityPolicy-driven configuration management

C. Automatically grows storage volumesSlows growth of dataCentralized auto-deletes of aging files

D. Creates virtual storage poolsAutomates disaster recoveryReplaces chargeback capabilities

Answer: A

Question No: 25
Based on XtremIO best practice, which byte sector size should be used for volumes hosting Oracle database files?

A. 256

B. 512

C. 1024

D. 4096

Answer: D

Question No: 26
How many management IP addresses are required on a single XtremIO storage controller?

A. 1

B. 2

C. 3

D. 4