Vendor: EMC

Exam Code: E20-526

Exam Name: XtremIO Solutions and Design Specialist Exam for Technology Architects

Version: DEMO

QUESTION 1
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
Explanation:
XtremIO storage is natively thin provisioned, using a small internal block size.
This provides fine-grained resolution for the thin provisioned space.
All volumes in the system are thin provisioned, meaning that the system consumes capacity only when it is actually needed. XtremIO determines where to place the unique data blocks physically inside the cluster after it calculates their fingerprint IDs. Therefore, it never pre-allocates or thick-provisions storage space before writing.

QUESTION 2
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
Explanation:
Disable Encryption and Non-Encrypted Models
This version [Ver. 4.0.2-65] allows disabling the Data at Rest Encryption (DARE), if desired.
Disabling and Enabling is done when the cluster is stopped.

QUESTION 3
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
Explanation:
Large block I/O by nature incurs higher latency.

QUESTION 4
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
Explanation:
When a snap is created, the following steps occur:
1) Two empty containers are created in-memory
2) Snapshot SCSI personality is pointing to the new snapshot sub-node
3) The SCSI personality which the host is using, is linked to the second node in the internal data tree
https://www.emc.com/collateral/white-papers/h14296-wp-recoverpoint-replication-of-xtremio.pdf

QUESTION 5
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
Explanation:
An example of a generic wrapper function that queries XtremIO REST API using HTTP/POST to create a new object with specified properties.

```
function ExecutePostRestQuery ($xmsip,$cfgOption,$data,$headers)
{
    $baseUrl = "https://"+$xmsip
    $resUrl = '/api/json/v2/types/'
    $url = $baseUrl + $resUrl + $cfgOption
    Write-Host $url
    Write-Host $data
    $jsonserialInput = New-Object -TypeName System.Web.Script.Serialization.JavaScriptSerializer
    $jsonserialOutput = New-Object -TypeName System.Web.Script.Serialization.JavaScriptSerializer
    $jsonserialInput.MaxJsonLength = [int]::MaxValue
    $jsonSerialOutput.MaxJsonLength = [int]::MaxValue
    $result = (Invoke-RestMethod -Method POST -Uri $url -Body $data -Headers $headers)
    return $result
}
```

References: https://www.emc.com/collateral/white-papers/h14980-wp-accelerate-sql-lifecycle-management.pdf

QUESTION 6
Refer to the exhibit. A customer has a VMware Horizon View environment with the following characteristics:

▪One X-Brick XtremIO cluster
▪100% read during a boot storm

▪8K read/writes

What is the maximum recommended number of VDIs the XtremIO cluster can support during a boot storm?

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. 1625
B. 1833
C. 3250
D. 5094

Answer: A
Explanation:
EMC estimates that 150 IOPS per desktop is required in a boot storm. As per table the recommended number of VDIs then is 243,831/ 150, which equals 1625.
References: https://www.emc.com/collateral/white-papers/h14279-wp-vmware-horizon-xtremio-design-considerations.pdf, page 32

QUESTION 7
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 500K 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
Explanation:
https://store.emc.com/en-us/Product-Family/EMC-XtremIO-Products/EMC-XtremIO-All-Flash-Scale-Out-Array/p/EMC-XtremIO-Flash-Scale-Out

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