

E20-555 Dumps

Isilon Solutions and Design Specialist Exam for Technology Architects

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NEW QUESTION 1

You meet a customer for the first time. They explain that their current environment for NAS does not meet their needs. You want to make sure that Isilon is a good fit for their needs.

What would be a good prequalifying question to ask?

- A. Where will the data center be installed?
- B. How many concurrent clients are accessing your NAS?
- C. How many users are in your Directory Services?
- D. Are you currently using a UPS for your main power source?

Answer: B

NEW QUESTION 2

You have been invited to meet with the Social Media and Marketing Department and gather requirements for a potential File System Project. They primarily use CIFS and are considering deploying a Hadoop cluster to analyze customer demographic data. The Senior Systems Engineer thinks they will need 2PB of usable capacity.

What would you do to gain an understanding of the customer's environment to qualify and develop the opportunity?

- A. Create a cluster configuration specifying HDFS, NFS, and CIFS protocols; select 19 x X400 nodes with 144TB per node, and Enhanced Support
- B. Request the Windows Systems Administration Team run a PerfMon analysis on the Marketing Servers, consider adding 75 x 3TB drives to your VNX 5500, and contact the DBA Team for their help
- C. Ask them to identify how the current data is accessed, where the data is accessed from, and who is accessing the data
- D. Send the Social Media Team a sizing and features spreadsheet to complete; download the OneFS Architectural White Paper for them, and create a Logical System diagram in Visio

Answer: B

NEW QUESTION 3

What is the smallest unit of manageable storage within Isilon SmartPools?

- A. SSD pool
- B. Node pool
- C. Disk pool
- D. File pool

Answer: C

NEW QUESTION 4

A customer plans to consolidate 200 TB of digital images and video content. Performance is important for recently created files. However, the customer wants any content that has not been accessed within 30 days to be stored in the cluster at a much lower cost because performance is no longer critical. Which Isilon configuration should be recommended?

- A. X-Series nodes, NL-Series nodes, and SmartPools
- B. X-Series nodes and SmartQuotas
- C. S-Series nodes, X-Series nodes, and SmartPools
- D. NL-Series nodes and SmartLock

Answer: A

NEW QUESTION 5

Your customer has a new business unit. They are gathering web log files to be analyzed. They are using Hadoop to do the analysis of the logs. The IT department is centrally storing the log files on a five node Isilon cluster. They have enabled the Hadoop cluster to access the files directly. The nodes are X400's with two SSD drives in each node and 96GB of RAM.

How many DataNodes does the Isilon Cluster have?

- A. 1
- B. 5
- C. 10
- D. 15

Answer: B

NEW QUESTION 6

Your customer has observed a degradation in response time while browsing for media files within the Production Media folder of the Isilon cluster. That directory now contains over five million files. It was confirmed that there are no network or edit station related causes.

What changes to the Isilon cluster will best accelerate the browsing performance?

- A. Add Solid State Drives (SSDs) to the nodes
- B. Add A-Series Performance Accelerator nodes
- C. Upgrade node access to 10 Gbps
- D. Upgrade RAM on the nodes

Answer: A

NEW QUESTION 7

At which level can retention periods be applied with Isilon SmartLock?

- A. Directory
- B. Node
- C. File system
- D. Cluster

Answer: D

NEW QUESTION 8

You set up a meeting to gather information on a new project with the IT manager and plan to use a workflow profile assessment (WPA) to document the requirements.

Why is it recommended to talk to as many stakeholders as possible?

- A. Helps downstream personnel, such as implementation and delivery, to have a clearer understanding of the requirements.
- B. Completing this document gives sales a list of who the stakeholders are at customer site.
- C. Using workflow profile enables sales to take this information to EMC consulting for review to validate the configuration.
- D. Using the WPA tool will give you the best "big picture" to see things such as block size, de-dupe, file size and volumes.

Answer: A

NEW QUESTION 9

A customer configures a file pool policy to write data to tier 2 on the Isilon cluster. This is in addition to the 30 policies already created. Later in the week they check the file placement and see that it has not been written to the correct tire. What could be the problem?

- A. Number of allowable policies has been exceeded so the new policy will not run.
- B. File matches a policy for a different tier that is listed higher in the file pool policy list.
- C. SmartPools policy job has not yet run so the file was written using the default policy.
- D. File matches a policy for a different tier that is listed lower in the file pool policy list

Answer: B

NEW QUESTION 10

A customer has a requirement for a new solution to handle their growing storage requirements. The solution should have the ability to cover storage needs for the next three years. The environment consists of 100 TBs of file system data spread across five file systems. On average, the file systems grow 1 TB a month. In addition, they have a large VMware cluster supporting 200 VMs and a highly transactional database.

The customer wants the solution to offer good performance, scalability, manageability, and be cost-effective. The sales team is looking to you to recommend a solution.

Which recommendation will meet the customer's requirements?

- A. VNX for DB and VMware workloads, and Isilon for file system data
- B. Isilon scale-out and cluster as required
- C. VNX Unified platform with FAST Cache
- D. VMAX with FAST VP and a NAS Gateway

Answer: A

NEW QUESTION 10

What is the correct sequence of events in a SyncIQ failover procedure after a failure occurs in the source Isilon cluster?

Read-only restriction is removed from the SyncIQ domain for that policy

Step 1

Storage administrator runs `isi sync recovery allow-write` command on a SyncIQ policy

Step 2

Data under that policy is restored to the last-known-good snapshot

Step 3

Storage administartor redirects users to the target

Step 4

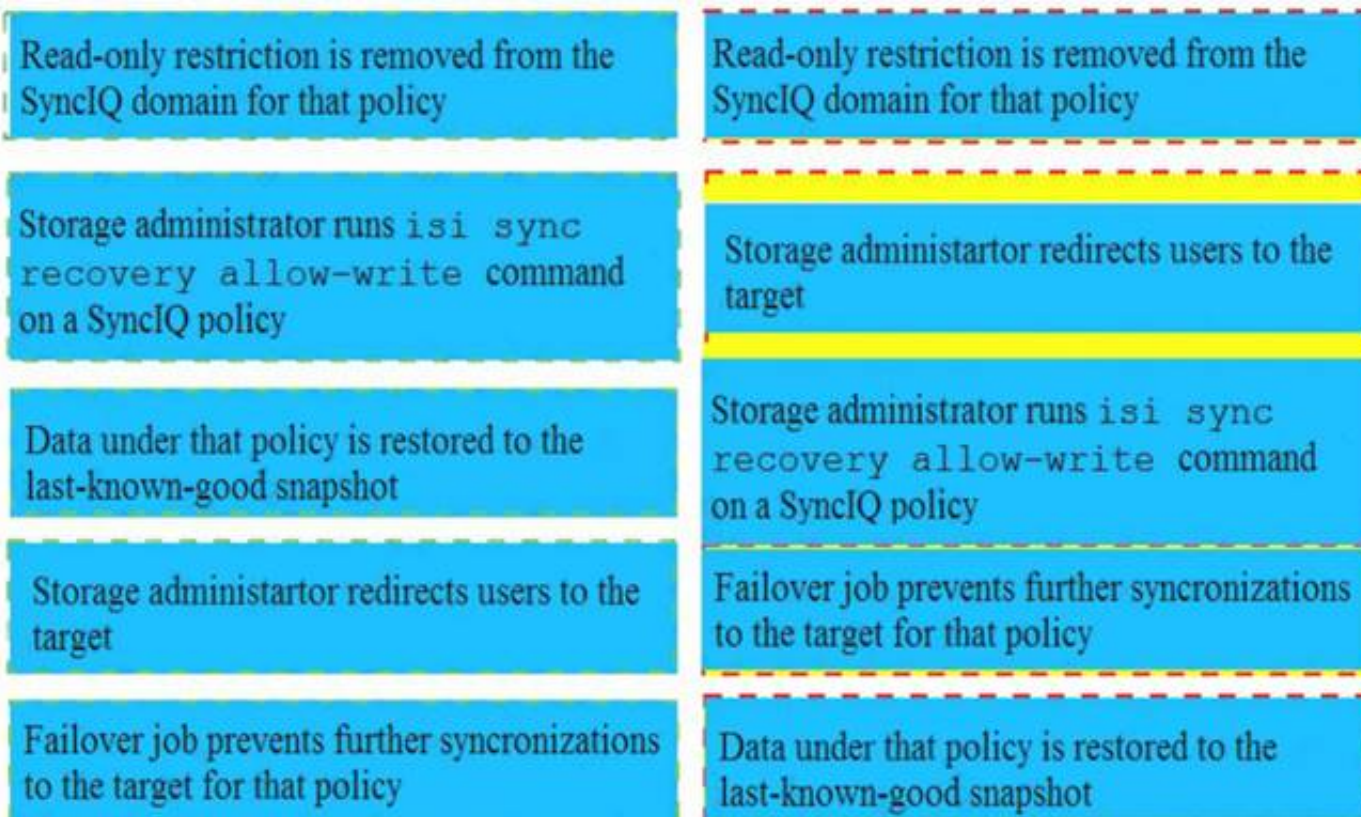
Failover job prevents further synchronizations to the target for that policy

Step 5

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 14

You are designing an Isilon 5-node cluster configuration for a customer who wants to store user home directories on the new cluster. Each user has 100 small files of 4KB each, 100 medium sized files of 80KB each, and 100 larger files of 512KB each. How much space is occupied by the medium sized files data blocks on an N+1n cluster?

- A. 9,600KB
- B. 15,360KB
- C. 16,000KB
- D. 25,600KB

Answer: A

NEW QUESTION 16

You have received a critical task that requires immediate analysis of system performance. Captured data will later be processed by MiTrend, but a current assessment is not available.

Which utility will quickly provide IOPS associated with reads and writes, CPU utilization, and I/O scheduler wait time?

- A. tcpdump
- B. iostat
- C. Wireshark
- D. NFSstat

Answer: B

NEW QUESTION 18

Your customer manages a print media environment, consisting of three Isilon clusters, which are out of support. The customer would like to have access to new software releases and feature sets. You have been asked to perform a full discovery of the customer's environment.

The customer's current Isilon clusters are as follows:

"Cust" (12 x 12000X) serves as upload media storage for different tenants.

"Working" (8 x 12000X + 6 x X200) serves as a working zone for extraction to RAW and printing media from it.

"Archive" (16 x 72NL + Accelerator nodes) is used to store printed content for six months.

The customer operates in a Windows environment using SMB 2.0, two DNS servers per AD forest, three forest domains which are servicing three different environments. All servers are operating on a 1Gb network, three VLANs segregating the DEV/QA/PROD environments. Currently, there is no monitoring in place for performance measurement or optimization.

The requirements for this solution include:

- Better ROI and TCO
- Maintain same performance with possible improvements
- Renew HW/SW and get inclusive support
- Limit migrations
- Reduce space, power, cooling consumption
- Get new feature sets
- If migration required, use Parallel copy (multiple nodes, multiple threads, multiple connections)
- Segregate tenant shares from other tenants
- Expand up to 1PB of total storage

What would you recommend be done to consolidate the three clusters into one?

- A. • Expand the largest and most I/O intensive cluster using SmartFail• Consolidate the remaining two clusters using Multithreaded version of RoboCopy• Modify A-Record and propagate to all DNS servers to point to the new cluster
- B. • Leave the clusters as is• Upgrade drive sizes to meet the customer requirements
- C. • Expand the largest and most I/O intensive cluster using SmartFail• Consolidate the remaining two clusters using SyncIQ

D. • Build a new cluster for consolidation• Use SnapshotIQ to migrate the existing data onto the new consolidated cluster• Spoof DNS to point to the new cluster

Answer: C

NEW QUESTION 23

A customer currently has 10 HPC nodes. They plan to purchase a 5-node Isilon X400 cluster for an HPC application running on Linux. They will persistent mount the Isilon cluster through NFSv3.

Which recommended configuration addresses the customer's requirements for high availability and throughput?

- A. SmartConnect Advanced with Round Robin connection balancing and dynamic addressing
- B. SmartConnect Basic with Round Robin connection balancing and dynamic addressing
- C. SmartConnect Advanced with Network Throughput connection balancing and dynamic addressing
- D. SmartConnect Advanced with Round Robin connection balancing and static addressing

Answer: A

NEW QUESTION 24

A customer has an Isilon cluster that they want to simplify a Hadoop workflow. The workflow analyzes large amounts of log data written to storage using FTP and results are viewed by Microsoft Windows clients?

How can this be achieved?

- A. FTP, SMB, and HDFS NameNode and DataNode protocol support on the same file system to enable each workflow step to access data from the same location avoiding data migration.
- B. SyncIQ to migrate the log data between an Isilon cluster and another Hadoop cluster, to retrieve results from the Hadoop cluster, and to store them in an SMB share.
- C. SmartConnect to direct clients to an external Hadoop NameNode and to SMB shares so data ingest, analytics, and results phases are transparently directed.
- D. FTP and SMB protocol support to provide log ingest and Windows clients; SmartPools will stub to HDFS helping to reduce the frequency of external data migration.

Answer: A

NEW QUESTION 27

Your customer has an Isilon 4-node X400 cluster used for home directory use, and has since updated to OneFS 7.1. The HR and Legal departments have been very strict about using only dedicated file servers that are part of a single, isolated, untrusted Active Directory domain. Their filer has been out of maintenance, and fears are being raised that, due to the age, it may fail at some point.

What could the IT department do, to allow the HR and Legal groups to provide file share services, with minimal impact to their other application permissions?

- A. Recommend a 2nd cluster for the HR/Legal department
- B. Utilize SmartPools to create two pools to separate the domains
- C. Consolidate onto a single cluster and merge the domains
- D. Use Access Zones for each domain

Answer: B

NEW QUESTION 28

A company has purchased an Isilon cluster. The storage administrator knows they will have a large number of clients with similar workloads connecting to the cluster through NFS, and connections will be maintained for a long time. Which two connection balancing policies should be recommended for initial use? (Choose two.)

- A. Round Robin and Connection Count
- B. CPU Utilization and Network Throughput
- C. Round Robin and CPU Utilization
- D. Connection Count and Network Throughput

Answer: AB

NEW QUESTION 31

An Isilon customer has an environment supporting a wide range of different workloads. They want to assign clients to performance tiers based on the resources needed.

What can the customer use to meet this requirement?

- A. SmartConnect Zones
- B. Load Balancing
- C. Client Connection Zone
- D. SmartPools Advanced

Answer: A

NEW QUESTION 35

-- Exhibit -

A European Sports TV network is considering Isilon for their Media Edit Storage for their editing workloads. They are also considering Isilon for near-line media archiving.

The network receives XDCAM HD footage which is loaded onto their existing Transcoding Storage platform. New footage that needs to be edited will be transferred from their Transcoding Storage platform to the proposed Media Edit Storage platform at the rate of ten simultaneous XDCAM HD files via FTP. Edited files will be transferred back to the Transcoding Storage platform at the rate of ten simultaneous XDCAM HD files via FTP.

The network currently has 15 Final Cut Pro edit stations, 15 Avid edit stations. Proxy software will be used to allow Isilon to act as the storage for the Final Cut Pro and Avid media. Three of those edit stations will be performing content compositing as needed.

The network expects 70 hours of new content per week, and 50 hours of edited content per week. They intend to keep the new and edited content on the proposed Media Edit Storage as a performance tier for 30 days. They would like to retain all new and edited footage proposed Media Edit Storage as a near-line tier for two years.

In addition to the current workloads, the network expects to implement a new Media Asset Management (MAM) solution and has requested the Isilon cluster be capable of supporting 120 MBps read and 120 MBps write to support the MAM requirements.

-- Exhibit -

Refer to the exhibit.

Codec / Compression	Resolution	Pixel			Frame Rate	Audio Channels	Color Space	Color Sampling	Mbps	MBps	MiBps
		H	V	Aspect Ratio							
ProRes 422 HQ 10 bit	4K	4096	2160	1.9:1	24	8	YCbCr	4:2:2	849	106	101
		3840	2160	16:9	24	8	YCbCr	4:2:2	797	100	95
	2K	2048	1556	2.35:1	24	8	YCbCr	4:2:2	312	39	37
		2048	1080	1.89:1	24	8	YCbCr	4:2:2	219	27	26
	HD	1920	1080	16:9	30	8	YCbCr	4:2:2	256	32	30
					25	8	YCbCr	4:2:2	215	27	26
		1280	720	16:9	60	8	YCbCr	4:2:2	255	32	30
					50	8	YCbCr	4:2:2	214	27	26
	SD	720	576	4:3	25	4	YCbCr	4:2:2	75	9.3	9
		720	486	4:3	30	4	YCbCr	4:2:2	75	9.4	9
ProRes 422 10 bit	4K	4096	2160	1.9:1	24	8	YCbCr	4:2:2	567	71	68
		3840	2160	16:9	24	8	YCbCr	4:2:2	532	67	63
	2K	2048	1556	2.35:1	24	8	YCbCr	4:2:2	210	26	25
		2048	1080	1.89:1	24	8	YCbCr	4:2:2	149	19	18
	HD	1920	1080	16:9	30	8	YCbCr	4:2:2	173	22	21
					25	8	YCbCr	4:2:2	146	18	17
		1280	720	16:9	60	8	YCbCr	4:2:2	169	21	20
					50	8	YCbCr	4:2:2	143	18	17
	SD	720	576	4:3	25	4	YCbCr	4:2:2	51	6.4	6
		720	486	4:3	30	4	YCbCr	4:2:2	52	6.5	6
Sony HDCAM SR 10 Bit MPEG-4	HD	1920	1080	16:9	30	8	RGB YCbCr	4:4:4 4:2:2	880	110	105
Sony XDCAM HD 8 Bit MPEG-2	HD	1920	1080	16:9	30	8	YCbCr	4:2:2	55	7	7
XAVC 10 Bit H.264	4K	4096	2160	1.9:1	60	8	YCbCr	4:2:2	319	40	38
		3840	2160	16:9	60	8	YCbCr	4:2:2	300	38	36
	2K	2048	1556	2.35:1	60	8	YCbCr	4:2:2	140	18	17
		2048	1080	1.89:1	60	8	YCbCr	4:2:2	100	13	12
	HD	1920	1080	16:9	60	8	YCbCr	4:2:2	100	13	12
					50	8	YCbCr	4:2:2	85	11	10
AVCHD 8 Bit H.264	HD	1920	1080	16:9	30	8	YCbCr	4:2:0	25	3.1	3
					25	8	YCbCr	4:2:0	22	2.8	3
		1280	720	16:9	60	8	YCbCr	4:2:0	19	2.4	2
					50	8	YCbCr	4:2:0	18	2.2	2
Broadcast MPEG-2 8 Bit	HD	1920	1080	16:9	30	2	YCbCr	4:2:0	19	2.4	2
					25	2	YCbCr	4:2:0	16	2.0	2
		1280	720	16:9	60	2	YCbCr	4:2:0	13	1.6	2
					50	2	YCbCr	4:2:0	11	1.4	1
	SD	720	576	4:3	25	2	YCbCr	4:2:0	6	0.7	1
		720	486	4:3	30	2	YCbCr	4:2:0	6	0.7	1

Based on the described use of the cluster, which node combination is the appropriate choice for the customer's requirements?

- A. 4 x X400 nodes with 4 x NL 400 nodes
- B. 4 x S200 nodes with 4 x NL 400 nodes
- C. 4 x X200 nodes with 4 x NL 400 nodes
- D. 4 x S200 nodes with 5 x NL 400 nodes

Answer: A

NEW QUESTION 37

A customer created one month of snapshots; one snapshot every 8 hours for 30 days on an Isilon cluster using SnapshotIQ. They are now deleting the snapshots randomly and experiencing overhead to the cluster.

How can the snapshots be removed while avoiding the overhead caused by this process?

- A. Delete the snapshots in order
- B. Use SmartPools to move the snapshot data to a different tier
- C. Snapshots cannot be deleted
- D. Remove the directory

Answer: A

NEW QUESTION 42

A potential customer uses a solution from an EMC competitor for NFS storage in their main data center. The existing arrays are five years old, and the customer would like to consolidate them into a single new system. The entire workload is generated by eight Linux hosts connected to the arrays that process video files.

The customer informs you they are not able to collect performance information from the existing arrays.

Which tools can capture the workload requirements?

- A. iostat and nfsstat
- B. MiTrends and netmon
- C. netstat and esxtop
- D. Wireshark and sysstat

Answer: A

NEW QUESTION 43

When designing Isilon solutions, which issue should you pay special attention to?

- A. Meet customer expectations
- B. Create a workflow document
- C. Conduct stakeholder interviews
- D. Follow all SSD sizing rules

Answer: A

NEW QUESTION 47

A telecommunications company has a substantial amount of data. This data is being created by network elements within their environment.

The company wants to change the way the network elements Call Detail Records (CDR) are stored and analyzed. The existing infrastructure consolidates all of the CDRs into a table structure, and then ingests them into a large database. Once ingested, a query engine accesses the database and performs analysis on these files. The system is functional; however, since the amount of CDRs generated will increase exponentially over the next year, the company is open to alternatives for storing and analyzing these records.

In evaluating alternatives, the key requirements are to reduce cost, the amount of storage, and the amount of time to analyze the data. The customer would like to use Hadoop to analyze the CDRs.

After you have conducted an assessment of the workflow, you have recommended an Isilon Cluster to work within the Hadoop environment.

What would be the best recommendation to the customer for the workflow of Hadoop with Isilon?

- A. Copy the CDRs from the source to an Isilon cluster with NFS, then use Hadoop to analyze the information directly over HDFS
- B. Write the CDRs directly to an Isilon cluster with an NFS mount, then use Hadoop to analyze the information directly over HDFS
- C. Copy the CDRs from the source to an Isilon cluster with NFS, then ingest the information into Hadoop for analysis
- D. Write the CDRs directly to an Isilon cluster with an NFS mount, then ingest the information into Hadoop with NFS then analyze

Answer: C

NEW QUESTION 52

A customer plans to deploy N+2:1 protection on a 5-node Isilon cluster. How much capacity will be used to store a 320 KiB file?

- A. 320 KiB
- B. 448 KiB
- C. 576 KiB
- D. 640 KiB

Answer: D

NEW QUESTION 53

An Isilon customer has two 5-node clusters; one for production and one for disaster recovery (DR). The customer's workflows are replicated to the DR cluster through SyncIQ on individual schedules. They shutdown their production cluster for a scheduled DR test, failed over to the DR cluster, and continue their DR testing.

Assume both clusters have identical shares, exports, and user authentication and that the client applications have been stopped and the DNS re-pointed. What is the correct method to continue production operations?

- A. Revert the SyncIQ Policy
- B. Initiate Manual Failback of the SyncIQ Policy
- C. Initiate Automated Failback of the SyncIQ Policy
- D. No change to the SyncIQ Policy

Answer: A

NEW QUESTION 56

You have scheduled a meeting with a prospective customer in the Life Sciences vertical market. Which Isilon features should be presented to them?

- A. SmartLock, HDFS, SmartPools and SmartQuotas
- B. SmartPools, HDFS, 10 GigE support and SmartQuotas
- C. SyncIQ, SmartLock, HDFS and SmartConnect
- D. SyncIQ, Antivirus, 10 GigE support and HDFS

Answer: A

NEW QUESTION 57

A customer is making a decision between Isilon and a competitor's offering. They currently have 100TB of usable capacity and are forecasting 100% growth per year for the next three years, which will require them to

lease additional space in their co-located data center. The CFO finds ROI and TCO to be important decision criteria.

Which statement best emphasizes the value of Isilon for this customer?

- A. Isilon's OneFS data protection policies offer substantially lower overhead than competitive RAID based NAS solutions.
- B. An IDC study found that Isilon requires 95% less down time hours per year compared to other competitors.
- C. The competition cannot offer a scale-out NAS so as capacity is added to the array, performance may degrade.
- D. Isilon's OneFS allows administrators to manage much larger amounts of capacity than competitive offerings.

Answer: A

NEW QUESTION 62

You are sizing an Isilon Cluster for a new customer. Analyzing their workflow, you determine that they have a small block random read workload. What is the most important factor to consider when sizing this solution?

- A. Headroom
- B. IOPS
- C. Latency
- D. Bandwidth

Answer: B

NEW QUESTION 65

What is a characteristic of predefined sets of privileges of OneFS built-in administrator roles?

- A. Can be modified without limitation
- B. Can be nested into other roles
- C. Cannot be modified
- D. Can be modified by selected users

Answer: C

Explanation:

OneFS includes built-in administrator roles with predefined sets of privileges that cannot be modified.

NEW QUESTION 70

Your customer purchased an Isilon cluster with eight X400 nodes for Home Directories. Your follow-up discussions have uncovered an opportunity to expand the cluster to support the Legal Department. As you prepare to complete the Workflow Profile Document, you meet with the customer to discuss data protection. Which key areas should you address?

- A. Default Cluster Protection LevelAdditional Directory Level ProtectionsSnapshots and Replication
- B. WORM requirementsNetwork ports for replicationSnapshots for user restores
- C. Default Cluster Protection LevelBackup Windows and ProcessesConcurrency of user access
- D. Protocols (SMB, NFS, FTP, HTTP, HDFS)Authentication and Directory ServicesPerformance and Latency Concerns

Answer: A

NEW QUESTION 74

How does Isilon SnapshotIQ use storage for snapshots?

- A. Through Changed Block Tracking and only changed data blocks are saved
- B. Works on the file level and saves the entire file no matter what has changed
- C. Works with 4 KiB blocks and will always use that amount of storage, no matter what has changed
- D. Through Changed Block Tracking and always uses a 4 KiB block, even if the data changed is less than that amount

Answer: A

NEW QUESTION 75

In an Isilon cluster, what is the largest number of nodes that a single file can be striped across?

- A. 10
- B. 20
- C. 30
- D. 40

Answer: B

NEW QUESTION 80

Where does Endurant Cache stage its write cache?

- A. SSD
- B. DISK
- C. NVRAM
- D. DRAM

Answer: B

NEW QUESTION 84

You need to gather information in order to design an Isilon solution. What are included in the Top 10 qualification questions?

- A. Required capacity, average file size, growth rate, and network supplier
- B. Current infrastructure, desired protocols, CapEx/OpEx preference, and growth rate
- C. Required capacity, applications in use, desired protocols, and growth rate
- D. Current infrastructure, applications in use, desired protocols, and company turnover

Answer: A

NEW QUESTION 85

Refer to the exhibit.

Codec / Compression	Resolution	Pixel				Frame Rate	Audio Channels	Color Space	Color Sampling	Mbps	Mlps	Mlpps	
		H	V	Aspect Ratio									
DPX 8 Bit	4K	4096	2160	1.9:1	24	8	RGB	4:4:4	6801	850	811		
							YUV*	4:4:4	4535	567	541		
		3840	2160	16:9	24	8	RGB	4:4:4	6377	797	760		
							YUV*	4:4:4	4252	511	507		
	2K	2048	1556	2.35:1	24	8	RGB	4:4:4	2456	307	293		
		2048	1080	1.89:1	24	8	RGB	4:4:4	1708	213	204		
DPX 10 Bit	4K	4096	2160	1.9:1	24	8	RGB	4:4:4	5443	680	649		
							YUV*	4:4:4	3402	425	406		
		3840	2160	16:9	24	8	RGB	4:4:4	5103	638	608		
							YUV*	4:4:4	3190	399	380		
	2K	2048	1556	2.35:1	24	8	RGB	4:4:4	1967	246	234		
		2048	1080	1.89:1	24	8	RGB	4:4:4	1368	171	163		
DNxHD 440 10 Bit	HD	1920	1080	16:9	30	8	RGB	4:4:4	446	56	53		
DNxHD 220 10 Bit	4K	4096	2160	1.9:1	24	8	YCbCr	4:2:2	757	95	90		
		3840	2160	16:9	24	8	YCbCr	4:2:2	710	89	85		
	2K	2048	1556	2.35:1	24	8	YCbCr	4:2:2	279	35	33		
		2048	1080	1.89:1	24	8	YCbCr	4:2:2	196	25	23		
	HD				30	8	YCbCr	4:2:2	229	29	27		
		1920	1080	16:9		25	8	YCbCr	4:2:2	192	24	23	
						60	8	YCbCr	4:2:2	204	26	24	
		1280	720	16:9		50	8	YCbCr	4:2:2	172	21	20	
		DNxHD 145 8 Bit	4K	4096	2160	1.9:1	24	8	YCbCr	4:2:2	496	62	59
				3840	2160	16:9	24	8	YCbCr	4:2:2	465	58	55
2K	2048		1556	2.35:1	24	8	YCbCr	4:2:2	185	23	22		
	2048		1080	1.89:1	24	8	YCbCr	4:2:2	131	16	16		
HD					30	8	YCbCr	4:2:2	152	19	18		
					25	8	YCbCr	4:2:2	128	16	15		
						60	8	YCbCr	4:2:2	136	17	16	
	1280		720	16:9		50	8	YCbCr	4:2:2	115	14	14	
DV50 8 Bit	SD	720	576	4:3	25	4	YCbCr	4:2:2	62	7.7	7		
		720	486	4:3	30	4	YCbCr	4:2:2	63	7.8	7		
DV25 8 Bit	SD	720	576	4:3	25	4	YCbCr	4:2:2	33	4.1	4		
		720	486	4:3	30	4	YCbCr	4:2:2	34	4.2	4		
ProRes 4444 12 bit	4K	4096	2160	1.9:1	24	8	RGB	4:4:4	1275	159	152		
		3840	2160	16:9	24	8	RGB	4:4:4	1196	150	143		
	2K	2048	1556	2.35:1	24	8	RGB	4:4:4	465	58	55		
		2048	1080	1.89:1	24	8	RGB	4:4:4	326	41	39		
	HD				30	8	RGB	4:4:4	380	48	45		
		1920	1080	16:9		25	8	RGB	4:4:4	319	40	38	
						60	8	RGB	4:4:4	381	48	45	
		1280	720	16:9		50	8	RGB	4:4:4	319	40	38	
	SD	720	576	4:3	25	4	RGB	4:4:4	115	14	14		
		720	486	4:3	30	4	RGB	4:4:4	117	15	14		
	4K	4096	2160	1.9:1	24	8	YCbCr	4:2:2	849	106	101		
		3840	2160	16:9	24	8	YCbCr	4:2:2	797	100	95		
	2K	2048	1556	2.35:1	24	8	YCbCr	4:2:2	312	39	37		
		2048	1080	1.89:1	24	8	YCbCr	4:2:2	219	27	26		

During a requirements gathering meeting, the customer identified a desire to use a codec for editing content that will take up the least amount of space on their Isilon cluster. The content is 1920x1080 HD.

Based on the provided list of codecs, which codec would minimize the storage requirement?

- A. DNxHD 145 8 Bit
- B. DPX 8 Bit
- C. ProRes 444 12 Bit
- D. DNxHD 220 10 Bit

Answer: A

NEW QUESTION 86

What is the sector size of an Isilon 8 TB drive?

- A. 512 bytes
- B. 1024 bytes
- C. 2048 bytes
- D. 4096 bytes

Answer: A

NEW QUESTION 90

Using Isilon SnapshotIQ, how many snapshots can be created at the directory level?

- A. 8
- B. 96
- C. 256
- D. 1024

Answer: D

NEW QUESTION 91

Which impact policies are available on an Isilon cluster?

- A. High, Medium, Low, Default
- B. High, Medium, Low, Paused
- C. High, Medium, Low, Auto
- D. ASAP, High, Medium, Low

Answer: B

NEW QUESTION 95

Which SmartConnect policies are used for workloads that have short lived connections such as HTTP and FTP?

- A. Connection count and round robin
- B. Round robin and CPU usage
- C. Throughput and CPU usage
- D. Throughput and connection count

Answer: C

NEW QUESTION 99

A customer is looking for a NAS solution to support their read-intensive application. This solution must meet the following requirements:

- 1000 users
- Aggregate bandwidth of 5 GB/s
- 500 TB of user data
- Typical latency of 5 ms.

The files are distributed evenly across 10 directories.

Which cluster configuration would best meet these requirements?

- A. Seven X400 (108 TB) nodes with no SSD
- B. Eight NL400 (96 TB) nodes with 1.6 TB SSD
- C. Eight X400 (96 TB) nodes with 1.6 TB SSD
- D. Twenty-five X200 (30 TB) nodes with 800 GB SSD

Answer: B

NEW QUESTION 103

Given a 5-node Isilon cluster configured with an N+2 protection level, how many nodes can be offline with the data accessible and fully writeable?

- A. 1
- B. 2
- C. 3
- D. None

Answer: B

NEW QUESTION 107

A customer's cluster contains three X200 (24 GB RAM, 3 TB drives) nodes, and three X400 (48 GB RAM, 1 TB drives) nodes. All nodes are configured in a single pool. All data is protected at N+2. After upgrading OneFS to 7.0, the Isilon Web interface indicates that files are not fully protected.

What should be done to correct this situation?

- A. Recreate the original pool using the Isilon Web interface
- B. Add 24 GB RAM to each of the X200 nodes
- C. Recreate the original pool using the command line interface
- D. Add two X200 nodes and two X400 nodes

Answer: C

NEW QUESTION 110

A company currently has multiple file servers to provide home directories for its employees. Each department has a separate file server. Most corporate users are on Windows clients and utilize Active Directory, except for the Engineering department, which uses Linux and NIS for authentication. The company is looking for a solution with minimal administrative overhead and a single namespace for the home directories.

What is the recommended solution that will meet this company's requirements?

- A. Configure a single Isilon cluster and utilize Access Zones for authentication to Active Directory and NIS.
- B. Configure two separate clusters, one for Windows clients and the other for Linux.
- C. Utilize SmartPools to create two different FilePools, and separate Windows users from Linux users.
- D. Configure a single cluster, and migrate Linux users to Windows.

Answer: A

NEW QUESTION 114

A hospital is considering using Isilon to store their long-term archive data for their GE PACS application. They currently have two million 17 MB studies. They expect capacity requirements to be 50% compounded growth per year. They plan to use N+2:1 protection, and would like this sized for three years of growth. Which minimum cluster configuration would meet this customer's environment?

- A. Five NL400 (1 TB drive) nodes
- B. Four NL400 (2 TB drive) nodes
- C. Five X200 (3 TB drive) nodes
- D. Three X400 (3 TB drive) nodes

Answer: A

NEW QUESTION 115

For concurrent I/O, how do SmartCache and Endurant Cache differ?

- A. Endurant Cache sends an acknowledgement to the client immediately after mirroring writes in NVRAM
- B. Endurant Cache waits for acknowledgement from all nodes before copying to L2 cache
- C. SmartCache immediately commits the write to NVRAM on the local node and one peer node
- D. SmartCache uses sub-file, granular locking whereas Endurant Cache locks the entire file

Answer: A

NEW QUESTION 119

In an Isilon cluster for N+2 protection, what is the minimum number of nodes?

- A. 3
- B. 5
- C. 6
- D. 9

Answer: B

NEW QUESTION 121

You are involved with a Proof of Concept where the performance is not what you expect. What can you use to collect process stack information and a listing of process waiting on I/O?

- A. netstat
- B. tcpdump
- C. isi statistics
- D. isi_get_itrace

Answer: C

NEW QUESTION 123

Which tool measures actual throughput and produces sophisticated graphs?

- A. MiTrend
- B. WireShark
- C. Perfmon
- D. IOZone

Answer: B

NEW QUESTION 127

An existing customer has two NAS systems providing NFS storage in their main datacenter - one is an Isilon cluster and the second is an array from another vendor. Both systems are four years old, and the customer would like to consolidate the storage into a single solution. According to the customer, both systems support identical workloads with similar performance and utilization, and they want the new solution to support 50% performance growth. Which method can model the workload requirements, and what multiplier will capture the requirements for the new solution?

- A. Use isi statistics protocol, and multiply by 3
- B. Use isi statistics drives, and multiply by 1.5
- C. Use isi statistics query, and multiply by 2
- D. Use isi statistics system, and multiply by 3

Answer: A

NEW QUESTION 128

What is an accurate statement when configuring an Isilon Gen 6 cluster with Compliance SmartLock?

- A. Standard directories containing data can be converted to a Compliance SmartLock directory
- B. SmartLock compliance directories can only be migrated from the recovery cluster
- C. Compliance directories have a system clock that is set once and cannot be changed after being set
- D. Failback of SmartLock compliance mode directories is not supported for Isilon Gen 6 clusters

Answer: B

NEW QUESTION 129

At a minimum, how many connected and available nodes are required to maintain quorum in a 25-node cluster?

- A. 10
- B. 12
- C. 13
- D. 17

Answer: C

NEW QUESTION 132

Your customer has an Isilon cluster with five X400 nodes and four 72NL nodes. A SmartPools policy moves data to the NL nodes after 60 days of inactivity. The customer wants to expand the archive tier by at least 150 TB and would like to manage a single archive pool. Which nodes should be added to the cluster?

- A. Three NL400 nodes with 2TB drives
- B. Three X400 nodes with 1TB drives
- C. Two NL400 nodes with 4TB drives
- D. Two X400 nodes with 3TB drives

Answer: A

NEW QUESTION 135

Which Isilon job has a default priority of '1'?

- A. MultiScan
- B. Media Scan
- C. FSAnalyze
- D. FlexProtect

Answer: D

NEW QUESTION 140

-- Exhibit -

A large manufacturing company is an existing Isilon customer with a cluster consisting of four NL400 nodes with 4TB drives. The cluster is using N+2:1 protection level and the file system shows that it is 60% utilized. Home directories and file shares comprise 75% of the existing content and the remainder is inactive deep archive. The company has 1,000 employees using Windows and Mac clients participating in a single Active Directory (AD) forest.

During a meeting with the CIO and Director of IT you discuss the company's recent acquisition – an engineering firm that specializes in Computer Aided Design (CAD). The engineering firm has 400 UNIX workstations that produce technical drawings which are currently stored on another vendor's SAN solution. The all UNIX environment uses NIS for authentication and name resolution. They do not currently use DNS or LDAP. The engineering company has an old storage system that has been experiencing problems and the CIO would like you to migrate the data onto the Isilon cluster. The CIO would like to eliminate all tape and recover the data onto disk.

The CIO is concerned about security of the company's intellectual property, especially with the rapid adoption of mobile devices and external cloud content sharing services such as DropBox, Egnyte, and SugarSync. They would like to implement an alternative that provides external file sharing and mobile device synchronization while maintaining security control over the company's data.

The Director of IT reports that users are storing non-work related content on the Isilon cluster. They would like to limit the amount of capacity that each user can consume in their home directory and want to ensure you provide the capability to easily visualize which users are over their allotment. The company's Windows users currently leverage Windows Shadow Copy to recover files that have been accidentally deleted. The IT department wants to ensure that Mac and incoming UNIX clients have the same functionality.

The Director of IT also mentions that users are reporting slow response times when browsing their home directories and shared folders. They are concerned that Isilon cannot scale to support their combined requirements.

-- Exhibit -

Which configuration changes would you recommend for the Engineering users?

- A. Direct all clients to use the Manufacturing DNS server and connect NFS mounts to the FQDN of the Isilon cluster.
- B. Mount an NFS share to a node on the Isilon cluster, being careful to equally distribute the load across nodes.
- C. Utilize SMB2.1 protocol and mount to the Isilon cluster using the Name Server (NS) record IP.
- D. Create an FQDN for the Isilon cluster in the LMHOSTS file for each engineering system.

Answer: A

NEW QUESTION 143

Refer to the exhibit.



You want to add redundancy to your network configuration, rather than performance. You have configured all interfaces into the default SmartConnect zone. How should you configure the switches and Isilon networking to provide your desired network redundancy?

- A. Configure the switch ports for LACP and use LACP aggregation for subnet0:pool0.
- B. Configure the switch ports as access points and use LACP aggregation for subnet0:pool0.
- C. Configure the switch ports for LACP and use FEC aggregation for subnet0:pool0.
- D. Configure the switch ports as access points, bond ext-0 and ext-1 on all nodes and use Active/Passive aggregation for subnet0:pool0.

Answer: A

NEW QUESTION 144

How many files can reference a single block within a shadow store?

- A. 8
- B. 128
- C. 512
- D. 32,000

Answer: D

NEW QUESTION 146

An Isilon customer wants to more effectively manage their storage and thereby achieve performance improvements. Which tool will help improve workflow performance on their cluster?

- A. InsightIQ
- B. Isilon SNMP MIB
- C. SyncIQ
- D. SmartPools

Answer: A

NEW QUESTION 149

Which Isilon job periodically checks disk sectors to ensure they can be read?

- A. MediaScan
- B. IntegrityScan
- C. Dynamic Sector Repair
- D. Isilon Data Integrity

Answer: A

NEW QUESTION 151

Your customer manages a print media environment, consisting of three Isilon clusters, which are out of support. The customer would like to have access to new software releases and feature sets. You have been asked to perform a full discovery of the customer's environment.

The customer's current Isilon clusters are as follows:

"Cust" (12 x 12000X) serves as upload media storage for different tenants.

"Working" (8 x 12000X + 6 x X200) serves as a working zone for extraction to RAW and printing media from it.

"Archive" (16 x 72NL + Accelerator nodes) is used to store printed content for six months.

The customer operates in a Windows environment using SMB 2.0, two DNS servers per AD forest, three forest domains which are servicing three different environments. All servers are operating on a 1Gb network, three VLANs segregating the DEV/QA/PROD environments. Currently, there is no monitoring in place for performance measurement or optimization.

The requirements for this solution include:

- Better ROI and TCO
- Maintain same performance with possible improvements
- Renew HW/SW and get inclusive support
- Limit migrations
- Reduce space, power, cooling consumption
- Get new feature sets
- If migration required, use Parallel copy (multiple nodes, multiple threads, multiple connections)
- Segregate tenant shares from other tenants
- Expand up to 1PB of total storage

Which licenses need to be defined for the solution to perform optimally?

- A. HDFS, SmartQuotas, SnapshotIQ, InsightIQ
- B. SmartPools, SnapshotIQ, SyncIQ, SmartLock
- C. InsightIQ, SmartPools, SyncIQ, SmartConnect Advanced
- D. SyncIQ, InsightIQ, SmartPools, Platform API

Answer: B

NEW QUESTION 152

How is the journal protected in Gen 6 hardware?

- A. Identical copy is maintained on all nodes of the cluster
- B. Identical copy is maintained on both nodes of each node pair
- C. Each node has a mirrored M.2 vault
- D. Each node has a mirrored write cache

Answer: D

NEW QUESTION 154

What determines how a user is directed to the correct secure multi-tenancy access zones?

- A. External protocols
- B. Isassd daemon
- C. External providers
- D. Incoming IP

Answer: C

NEW QUESTION 157

A customer is considering moving their NAS data over to Isilon systems. They want to know what limitations Isilon has regarding snapshot on the directory level. What explanation can be provided to the customer?

- A. Limit of 2048 snapshots per directory
- B. No limits on the number of snapshots per directory
- C. Limit of 2048 snapshots per cluster but not on the directory level
- D. Hard limit of 1024 snapshots per directory

Answer: D

NEW QUESTION 159

Your customer's initial use case was Home Directories. They implemented the cluster with four 1Gbps ports and LACP. They are planning to expand their cluster to support their core file services. They plan to upgrade their network infrastructure to 10 GbE to facilitate this. What are two design impacts this change will have?

- A. Maximum performance is obtained by only using a single 10GbE interface per node.LACP and multiple links may be used to increase redundancy, but will not provide more overall performance to the system
- B. LACP and multiple links may be used to increase redundancy, but will not provide more overall performance to the system.FCoE should be considered for the External Network Ports on the nodes.
- C. Dual 10GbE ports on each node will enable throughput of 20Gbps.Only connect half of the nodes to the network.
- D. Maximum performance is obtained by only using a single 10GbE interface per node.Isilon can support up to 400MB/s per node

Answer: A

NEW QUESTION 161

You are reviewing an opportunity with a trusted advisor. You both discover gaps in the initial solution design. Each iterative discussion with the customer helps you define the solution better. The documents produced capture the customer's requirements. What else needs to occur to refine the sizing considerations?

- A. Validate the Workflow Profile Assessment and test the solution against your findings.
- B. Review you assumptions and ask the customer what business issue you're solving.
- C. Provide the CIO with the findings and gain commitment to a Proof of Concept.
- D. Complete your Solution Design Document and forward to EMC consulting.

Answer: A

NEW QUESTION 162

Your customer has an existing Isilon cluster comprised of five NL-Series nodes. They have a new project that will quadruple their current throughput requirements. Upon reviewing reports in InsightIQ, you see that the aggregate external network throughput is peaking at 600MB/s. The customer states that data is only active for the first 7 days, but they keep it indefinitely. Which recommendation best supports their growth requirements?

- A. Add X-Series nodes to the cluster, and use SmartPools to migrate inactive data to the NL-Series nodes.
- B. Use the Isilon Sizing Tool to determine GNA requirements, and add NL-Series nodes with SSD to the cluster.
- C. Add a VNX Unified array for the new project, and use rsync to migrate data to the Isilon cluster for archiving.
- D. Add A-Series nodes to the cluster to boost combined network performance.

Answer: A

NEW QUESTION 165

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