Dell EMC
D-PSC-DS-23
Dell EMC PowerScale Design 2023 (DCS-TA)

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Question: 1

Which type of link aggregation is supported with Isilon nodes?
Response:

A. Aggregation of up to eight similar ports in the same cluster
B. Aggregation across Ethernet ports in a node
C. Aggregation of 10 GbE and 40 GbE ports
D. Aggregation across two or four nodes

Answer: B

Question: 2

There is a concern that there are not enough physical switch ports available for the Isilon cluster in a new implementation with SMB and ICAP requirements. What course of action should be taken?
Response:

A. Team the NICs across the nodes and just add one connection to minimize the ports required.
B. The customer needs to provide more switch ports for the implementation
C. Create a SmartConnect zone across all ports but do not connect all of them
D. Leave the archival nodes off the external network switch to save switch ports

Answer: B

Question: 3

A system administrator has identified a problem on the cluster and has opened a service request on support.emc.com. They initiate isi_gather_info but it is taking a long time to complete.
What can they do to speed up the completion of isi_gather_info for the next run?
Response:

A. Collect the required logs from the syslog server
B. Restart the CELOG daemon
C. Increase the speed of the network link
D. Exclude the specified tool(s) from being gathered

Answer: C

Question: 4

In OneFS, what is the largest number of disks in a subpool?
Response:

A. 234
B. 256
C. 468
D. 864

Answer: B

Question: 5

An architect is designing a solution for a customer that is replicating data between two data centers 15 km apart from each other. The customer requires point-in-time protection. What is possible in a SyncIQ policy?
Response:

A. Copy source snapshots to remote cluster
B. Replicate shares and exports on remote cluster
C. Create snapshots on remote cluster
D. Replicate cluster configuration data

Answer: C

Question: 6

Refer to the exhibit.

NFSv3 protocol breakdown

```
[root@centos-20]~#                        -Z60
nfs v3 client            total:    272191
-------------    -------------   --------
nfs v3 client           getattr:    12041
nfs v3 client           lookup:     20276
nfs v3 client           access:     23286
nfs v3 client             read:     10500
nfs v3 client            write:    158530
nfs v3 client           create:     15852
nfs v3 client           fsstat:     15853
nfs v3 client           commit:     15853
```

Which tool was used to create this output and what is the most telling characteristic?
Response:

A. nfsstat and write-intensive access
B. iostat and write-intensive access
C. Read-intensive access and nfsstat
D. isi_netlogger and moderate metadata read operations

Answer: A

Question: 7

Your customer is looking for a storage solution that will be able to store seven million 3 MB files, which are written and seldom accessed. Read and write operations are both completed by a webbased application, which requires 1.3 Gbps throughput. The customer's network has not been upgraded in many years, so the network interfaces are 1Gbps.
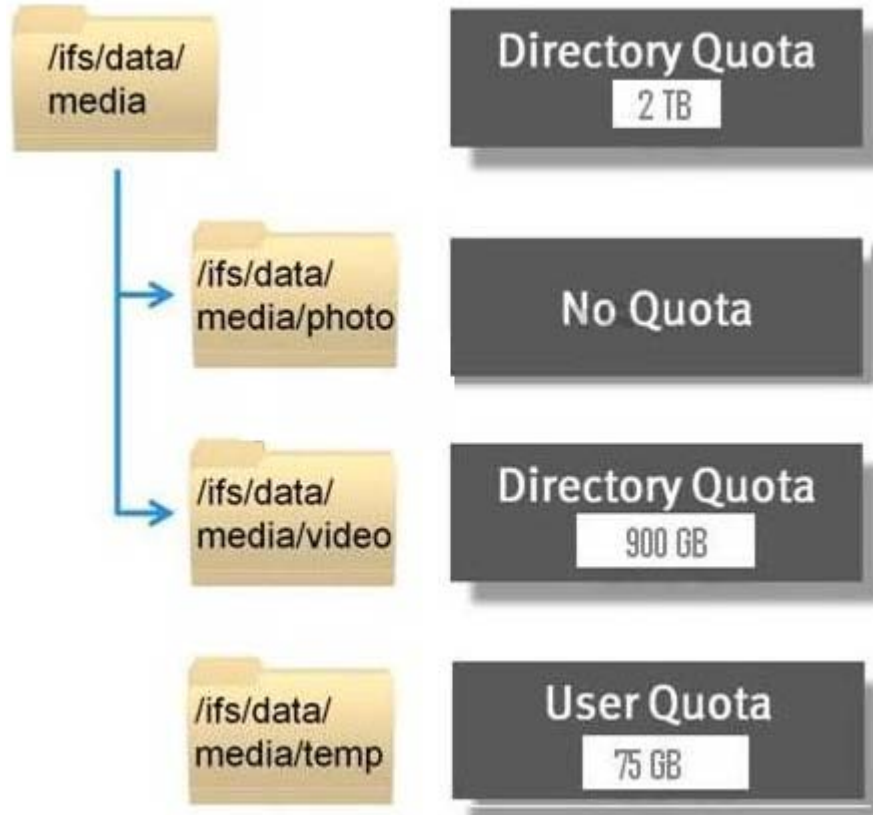Which cluster configuration would best meet the customer's requirements?
Response:

A. 3 NL400 nodes
B. 3 X400 nodes
C. 4 X200 nodes
D. 5 S200 nodes

Answer: D

Question: 8

Refer to the Exhibit.

What is represented by the information shown?
Response:

A. Directory quota cannot exceed 2 TB for both /ifs/data/media and /ifs/data/media/photo.
Directory quota cannot exceed 900 GB for /ifs/data/media/video.
Directory quota can be any size up to 2 TB and each user can only store 75 GB for /ifs/data/media/temp.
B. Directory quota cannot exceed 2 TB for /ifs/data/media and no quota limit on /ifs/data/media/photo.
Directory quota cannot exceed 900 GB for /ifs/data/media/video.
Directory quota can be any size up to 2 TB and each user can only store 75 GB for /ifs/data/media/temp.
C. Directory quota cannot exceed 2 TB for both /ifs/data/media and /ifs/data/media/photo.
Directory quota cannot exceed 900 GB for /ifs/data/media/video.
Directory quota can be any size up to 2 TB for /ifs/data/media/temp.
D. Directory quota cannot exceed 2 TB for both /ifs/data/media and /ifs/data/media/photo.
Directory quota cannot exceed 900 GB for /ifs/data/media/video.
Directory quota can be any size up to 900 GB and each user can only store 75 GB for /ifs/data/media/temp.

Answer: A

Question: 9

What are two output options from the PowerScale cluster events log?
(Select 2)
Response:

A. Hardware Issues
B. OneFS Issues
C. SMTP Email
D. Logs

Answer: C,D

Question: 10

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.

Codec / Compression	Resolution	H	V	Pixel Aspect Ratio	Frame Rate	Audio Channels	Color Space	Color Sampling	Mbps	MBps	MiBps
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

Codec / Compression	Resolution	H	V	Pixel Aspect Ratio	Frame Rate	Audio Channels	Color Space	Color Sampling	Mbps	MBps	MiBps
Sony HDCAM SR 10 Bit MPEG-4	HD	1920	1080	16:9	30	8	RGB	4:4:4	880	110	105
							YCbCr	4:2:2	440	55	52
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?
Response:

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

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