

# Dell EMC D-PSC-DS-23

**Dell EMC PowerScale Design 2023 (DCS-TA)**

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# Latest Version: 7.0

## 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]~# nfs v3 client -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?

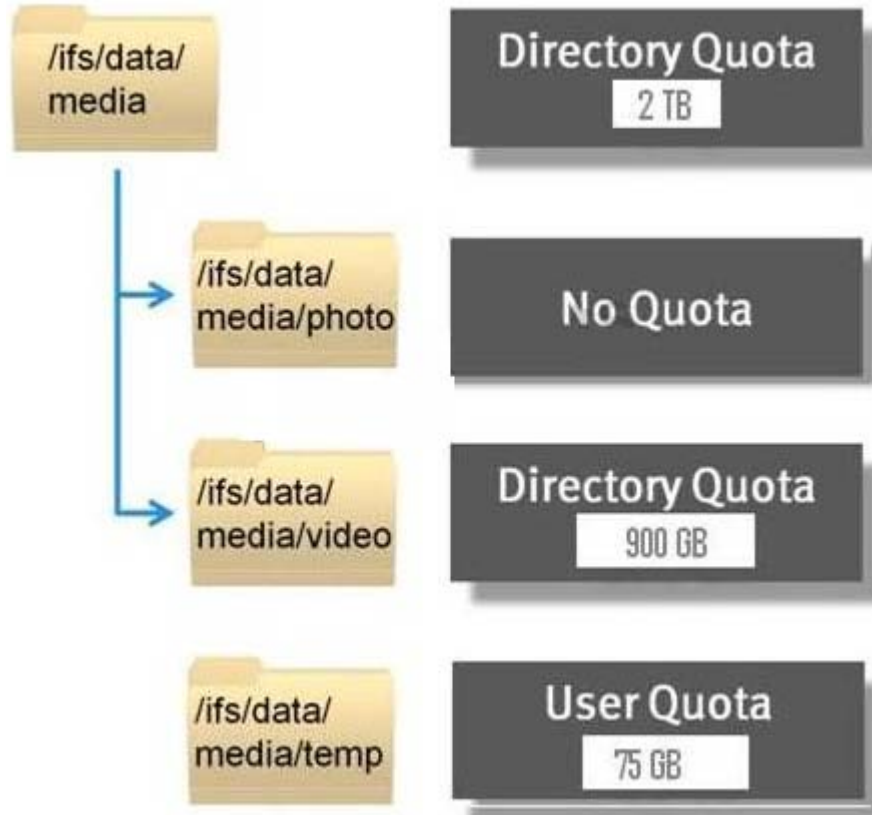
Response:

- 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	<b>106</b>	101
		3840	2160	16:9	24	8	YCbCr	4:2:2	797	<b>100</b>	95
	2K	2048	1556	2.35:1	24	8	YCbCr	4:2:2	312	<b>39</b>	37
		2048	1080	1.89:1	24	8	YCbCr	4:2:2	219	<b>27</b>	26
	HD	1920	1080	16:9	30	8	YCbCr	4:2:2	256	<b>32</b>	30
					25	8	YCbCr	4:2:2	215	<b>27</b>	26
		1280	720	16:9	60	8	YCbCr	4:2:2	255	<b>32</b>	30
					50	8	YCbCr	4:2:2	214	<b>27</b>	26
	SD	720	576	4:3	25	4	YCbCr	4:2:2	75	<b>9.3</b>	9
		720	486	4:3	30	4	YCbCr	4:2:2	75	<b>9.4</b>	9
ProRes 422 10 bit	4K	4096	2160	1.9:1	24	8	YCbCr	4:2:2	567	<b>71</b>	68
		3840	2160	16:9	24	8	YCbCr	4:2:2	532	<b>67</b>	63
	2K	2048	1556	2.35:1	24	8	YCbCr	4:2:2	210	<b>26</b>	25
		2048	1080	1.89:1	24	8	YCbCr	4:2:2	149	<b>19</b>	18
	HD	1920	1080	16:9	30	8	YCbCr	4:2:2	173	<b>22</b>	21
					25	8	YCbCr	4:2:2	146	<b>18</b>	17
		1280	720	16:9	60	8	YCbCr	4:2:2	169	<b>21</b>	20
					50	8	YCbCr	4:2:2	143	<b>18</b>	17
	SD	720	576	4:3	25	4	YCbCr	4:2:2	51	<b>6.4</b>	6
		720	486	4:3	30	4	YCbCr	4:2:2	52	<b>6.5</b>	6

Sony HDCAM SR 10 Bit MPEG-4	HD	1920	1080	16:9	30	8	RGB	4:4:4	880	<b>110</b>	105
							YCbCr	4:2:2	440	<b>55</b>	52
Sony XDCAM HD 8 Bit MPEG-2	HD	1920	1080	16:9	30	8	YCbCr	4:2:2	55	<b>7</b>	7
XAVC 10 Bit H.264	4K	4096	2160	1.9:1	60	8	YCbCr	4:2:2	319	<b>40</b>	38
		3840	2160	16:9	60	8	YCbCr	4:2:2	300	<b>38</b>	36
	2K	2048	1556	2.35:1	60	8	YCbCr	4:2:2	140	<b>18</b>	17
		2048	1080	1.89:1	60	8	YCbCr	4:2:2	100	<b>13</b>	12
	HD	1920	1080	16:9	60	8	YCbCr	4:2:2	100	<b>13</b>	12
					50	8	YCbCr	4:2:2	85	<b>11</b>	10
AVCHD 8 Bit H.264	HD	1920	1080	16:9	30	8	YCbCr	4:2:0	25	<b>3.1</b>	3
					25	8	YCbCr	4:2:0	22	<b>2.8</b>	3
		1280	720	16:9	60	8	YCbCr	4:2:0	19	<b>2.4</b>	2
					50	8	YCbCr	4:2:0	18	<b>2.2</b>	2
Broadcast MPEG-2 8 Bit	HD	1920	1080	16:9	30	2	YCbCr	4:2:0	19	<b>2.4</b>	2
					25	2	YCbCr	4:2:0	16	<b>2.0</b>	2
		1280	720	16:9	60	2	YCbCr	4:2:0	13	<b>1.6</b>	2
					50	2	YCbCr	4:2:0	11	<b>1.4</b>	1
	SD	720	576	4:3	25	2	YCbCr	4:2:0	6	<b>0.7</b>	1
		720	486	4:3	30	2	YCbCr	4:2:0	6	<b>0.7</b>	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

**Answer: A**



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