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Exam : **D-PSC-DS-01**

Title : **Dell PowerScale Design v2
Exam**

Vendor : **EMC**

Version : **DEMO**

QUESTION NO: 1

Your customer's site uses an old X-Series cluster, and they are interested in consolidating their two primary workflows. iostat shows that one of the applications is sensitive to latency, while isi statistics indicates sensitivity to disk response times. There are approximately 1000 users accessing 70 TB of file data.

Which node type would you recommend?

- A. S200
- B. X400
- C. X200
- D. NL400

Answer: A

QUESTION NO: 2

What is used to set permissions for devices managed by Secure Remote Services?

- A. InsightIQ
- B. Secure Remote Services gateway
- C. SupportIQ
- D. Policy Manager

Answer: D

QUESTION NO: 3

A large financial services company requires a capacity expansion for storing more than 2.5 PB of document images as a cold archive.

Which PowerScale node series should be recommended?

- A. A3000 Series
- B. F900 Series
- C. H500 Series
- D. F600 Series

Answer: A

QUESTION NO: 4

Which license is a prerequisite for enabling CloudPools?

- A. SmartPools
- B. FilePools
- C. DiskPools
- D. NodePools

Answer: A

QUESTION NO: 5

When creating a FilePool policy via the OneFS WebUI, what is the maximum allowed number of condition blocks?

- A. 1
- B. 3

- C. 8
 - D. No limit
- Answer:** C

QUESTION NO: 6

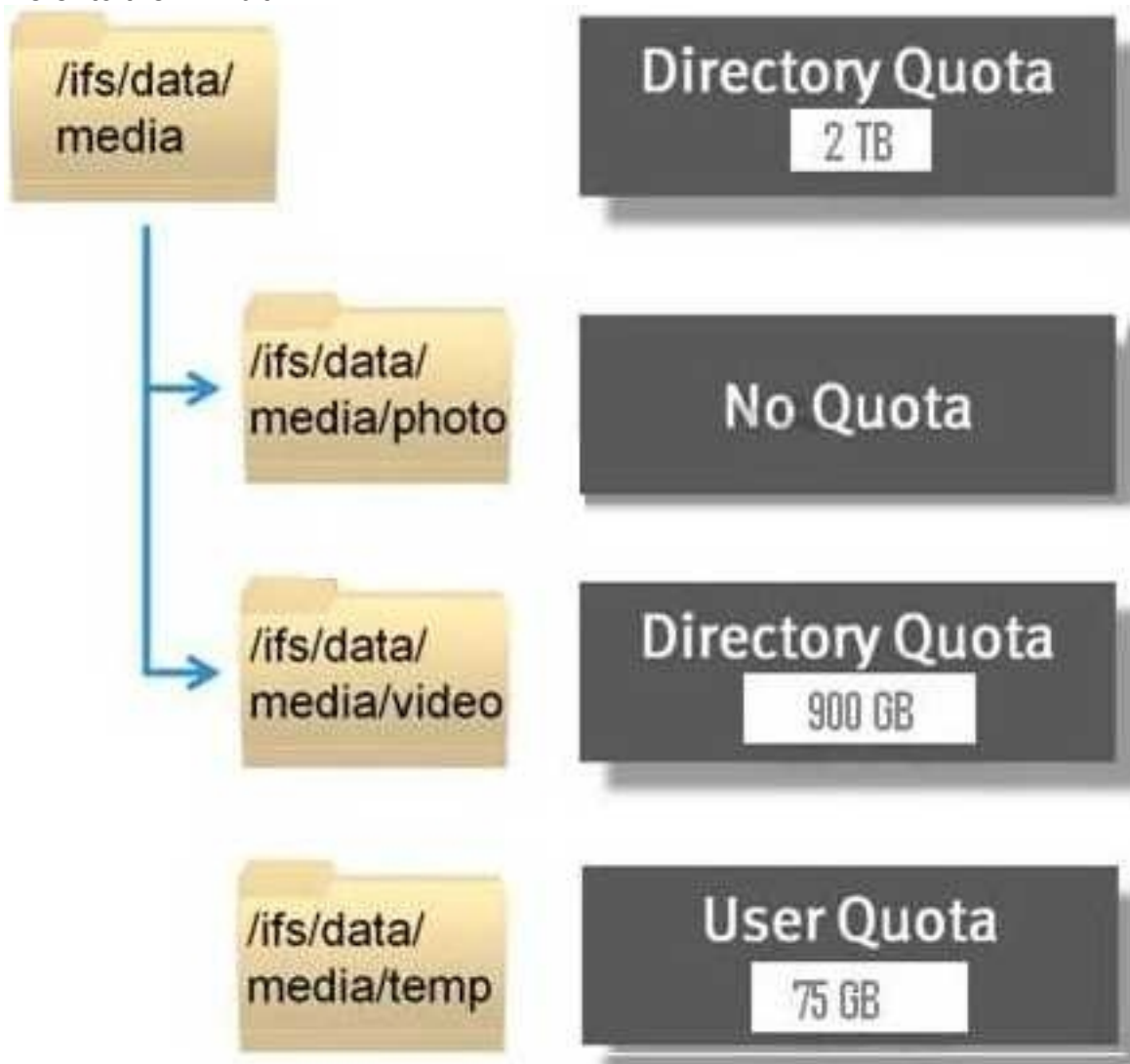
What are two SyncIQ performance rules that help manage resource usage during scheduled events?

- A. Worker and Throttler
- B. Throughput and Redirector
- C. CPU and Redirector
- D. Worker and CPU

Answer: D

QUESTION NO: 7

Refer to the Exhibit.



What is represented by the information shown?

- 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 NO: 8

What advantage does journaling provide in OneFS?

- A.** It records all network traffic for auditing purposes
- B.** It reduces file system recovery times after unexpected shutdowns
- C.** It automatically generates compliance snapshots for regulatory workflows
- D.** It performs inline deduplication of transaction logs

Answer: B

QUESTION NO: 9

Refer to the exhibit.

Codec / Compression	Resolution	H	V	Pixel Aspect Ratio	Frame Rate	Audio Channels	Color Space	Color Sampling	Mbps	Mllps	Mllbps
DPX 8 Bit	4K	4096	2160	1.9:1	24	8	RGB	4:4:4	6801	850	811
		3840	2160	16:9	24	8	YUV*	4:4:4	4535	567	541
		2048	1556	2.35:1	24	8	RGB	4:4:4	6177	797	760
	2K	2048	1080	1.89:1	24	8	YUV*	4:4:4	4252	531	507
		2048	1080	1.89:1	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
		3840	2160	16:9	24	8	YUV*	4:4:4	3402	425	406
		2048	1556	2.35:1	24	8	RGB	4:4:4	5103	618	608
	2K	2048	1080	1.89:1	24	8	YUV*	4:4:4	3190	399	380
		2048	1080	1.89:1	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
		2048	1556	2.35:1	24	8	YCbCr	4:2:2	279	35	33
	2K	2048	1080	1.89:1	24	8	YCbCr	4:2:2	196	25	23
		1920	1080	16:9	30	8	YCbCr	4:2:2	229	29	27
		1920	1080	16:9	25	8	YCbCr	4:2:2	192	24	23
	HD	1280	720	16:9	60	8	YCbCr	4:2:2	204	26	24
		1280	720	16:9	50	8	YCbCr	4:2:2	172	21	20
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
		2048	1556	2.35:1	24	8	YCbCr	4:2:2	185	23	22
	2K	2048	1080	1.89:1	24	8	YCbCr	4:2:2	131	16	16
		1920	1080	16:9	30	8	YCbCr	4:2:2	152	19	18
		1920	1080	16:9	25	8	YCbCr	4:2:2	128	16	15
	HD	1280	720	16:9	60	8	YCbCr	4:2:2	136	17	16
		1280	720	16:9	50	8	YCbCr	4:2:2	115	14	14
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
		2048	1556	2.35:1	24	8	RGB	4:4:4	465	58	55
	2K	2048	1080	1.89:1	24	8	RGB	4:4:4	326	41	39
		1920	1080	16:9	30	8	RGB	4:4:4	380	48	45
		1920	1080	16:9	25	8	RGB	4:4:4	319	40	38
	HD	1280	720	16:9	60	8	RGB	4:4:4	381	48	45
		1280	720	16:9	50	8	RGB	4:4:4	319	40	38
		720	576	4:3	25	4	RGB	4:4:4	115	14	14
	SD	720	486	4:3	30	4	RGB	4:4:4	117	15	14
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

QUESTION NO: 10

Which factor primarily influences node compatibility when designing a PowerScale cluster expansion?

- A. Number of snapshot schedules configured
- B. The hardware generation and OneFS version supported by existing nodes
- C. The network subnet mask used for client connections
- D. The file system protection level applied to each directory

Answer: B

QUESTION NO: 11

Which data access pattern uses aggressive prefetching?

- A. Concurrency
- B. Mirroring
- C. Streaming
- D. Random

Answer: C

QUESTION NO: 12

While designing SyncIQ policies for a new cluster, an architect wants to ensure that data is not deleted.

What should the architect create?

- A. SyncIQ copy policy
- B. SyncIQ sync policy
- C. SyncIQ policy with option: "Whenever the source is modified"
- D. SyncIQ policy with Encryption

Answer: A

QUESTION NO: 13

A customer has eight X400 nodes with 24 GB RAM each, supporting 400 client connections today. They plan to add 400 more clients in the next few months and are considering adding an A-Series node to help with client connections.

What hardware change is recommended before adding these additional client connections?

- A. Add an A100 accelerator node to handle additional concurrent client connections
- B. Add additional RAM to existing nodes and implement SmartConnect load balancing
- C. Add more network switches to increase the number of available connections
- D. Add SSD nodes to accelerate client connection handling

Answer: B

QUESTION NO: 14

What role does the isi statistics command play in workload analysis?

- A. It provides real-time performance metrics such as IOPS, latency, and throughput
- B. It generates access control policies for SMB and NFS
- C. It builds SmartConnect failover rules dynamically
- D. It automatically adjusts SyncIQ replication schedules

Answer: A

QUESTION NO: 15

When sizing an Isilon cluster for high connection count environments and high streaming I/O rates, which configurable node option is recommended?

- A. RAM
- B. SSD
- C. Disk capacity
- D. SAS drives

Answer: A

QUESTION NO: 16

In a multi-tenant environment, which OneFS feature can be used to connect to DNS servers from different tenants?

- A. Access Zones
- B. ZRBAC
- C. RBAC
- D. Groupnets

Answer: D

QUESTION NO: 17

Which Isilon feature increases available space by consolidating copies of identical blocks of data?

- A. SmartDedupe
- B. SmartQuotas
- C. Compliance
- D. FlexProtect

Answer: A

QUESTION NO: 18

Which statement accurately describes the privileges of the OneFS built-in SystemAdmin role?

- A. Has full administrative privileges except for security-related tasks, which require the SecurityAdmin role.
- B. Can only manage file system operations and must delegate all network management to NetAdmin.
- C. Provides zone-specific privileges only and cannot access global cluster configuration.
- D. Cannot perform administrative actions in OneFS versions above 8.2.1.

Answer: A

QUESTION NO: 19

A customer running ONTAP 7-Mode needs help gathering workflow data for PowerScale sizing.

Which tools should you use?

- A. Live Optics and PerfCollect
- B. Wireshark and isi statistics
- C. nfsstat and PerfMon
- D. InsightIQ and tcpdump

Answer: A

QUESTION NO: 20

Which OneFS roles should be assigned to a new local account for login privileges equivalent to 'root' local account?

- A. System Admin, Security Admin, and AuditAdmin
- B. All the roles in 'Membership & Roles'
- C. 'root' level privileges can never be assigned to any user-created accounts
- D. 'root' level privileges cannot be assigned to any user via 'Membership & Roles'

Answer: D

QUESTION NO: 21

What considerations apply when using SmartQuotas for sizing workflows? (Select all that apply)

- A. Enforcing capacity limits at directory, user, or group levels
- B. Monitoring usage trends for growth planning
- C. Automatically converting cold data to WORM mode
- D. Reducing protection overhead for small files

Answer: A,B

QUESTION NO: 22

Which benefits do SmartPools file pool policies offer? (Select all that apply)

- A. Automated tiering based on file metadata such as size, path, or age
- B. Manual migration of files through CLI scripts
- C. Optimized cost and performance alignment by placing data on appropriate node pools
- D. Built-in compliance WORM enforcement for regulatory data

Answer: A,C

QUESTION NO: 23

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

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

Answer: B

QUESTION NO: 24

A new PowerScale cluster servicing SMB and NFS data must use dynamic link aggregation to maximize throughput and resiliency.

Which physical network configuration is recommended?

- A. FEC
- B. Round robin
- C. Active/passive failover
- D. LACP

Answer: D

QUESTION NO: 25

Which operational consideration is used in the Isilon Sizing Tool to determine the recommended data protection?

- A. MTTRC
- B. MTDDL
- C. MTTR
- D. MTBF

Answer: B

QUESTION NO: 26

A telecommunications company has a substantial amount of data

a. 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: B

QUESTION NO: 27

A customer has 10 files that are each 10 MB in size. They created two clones of each file on their source cluster. They now want to use SyncIQ to replicate the original files and the cloned files to a target cluster.

Excluding protection overhead, how much disk space will the files use on the target cluster?

- A. 100 MB
- B. 200 MB
- C. 300 MB
- D. 600 MB

Answer: C

QUESTION NO: 28

What determines the number of job engine workers assigned to a task?

- A. Job task
- B. Job priority
- C. Job impact policy
- D. Job phase

Answer: D

QUESTION NO: 29

A customer wants to perform complete failover and failback testing on their production SyncIQ policies.

What are the first two recommended steps to ensure a successful test?

- A. Quiesce writes to source Immediately failover and failback
- B. Allow writes to source Immediately failover and failback
- C. Quisce writes to source Perform final sync
- D. Allow writes to source Perform final sync

Answer: D

QUESTION NO: 30

Match each PowerScale feature with its primary purpose:

- 1. SmartLock
- 2. SmartPools
- 3. CloudPools
- 4. ZRBAC

Options:

- a) WORM compliance and data retention
- b) Automated tiering between node pools
- c) Offloading cold data to cloud storage
- d) Zone-specific role-based administration

A. 1 → a, 2 → b, 3 → c, 4 → d

B. 1 → b, 2 → a, 3 → c, 4 → d

C. 1 → c, 2 → c, 3 → a, 4 → d

D. 1 → d, 2 → b, 3 → a, 4 → c

Answer: A

QUESTION NO: 31

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

QUESTION NO: 32

A healthcare customer is replacing backend PACS storage.

Which PowerScale-based solution best meets cache and archive needs?

A. PowerScale H-Series for image cache; PowerScale A-Series for image archive

B. PowerScale H-Series for image cache and archive

C. PowerScale A-Series for both cache and archive

D. ECS object storage for cache and archive

Answer: A

QUESTION NO: 33

Which advantages are provided by SmartDedupe? (Select all that apply)

A. Block-level deduplication across multiple directories

B. Immediate efficiency gain at file creation time

C. Post-process deduplication scheduling to reduce storage footprint

D. Inline network packet optimization for client access

Answer: A,C

QUESTION NO: 34

A customer has a large, multi-tier Isilon Gen 6 cluster storing home directories and critical file share data.

Which OneFS feature should be used to segregate home directory from critical file shares, enabling data archive across a single namespace?

A. SyncIQ

B. Aspera

C. SmartConnect

D. SmartPools

Answer: D

QUESTION NO: 35

A company needs to have their data asynchronously replicated. They also need to maintain a daily copy of the data for a week at the target side to enable fast recovery of files. They decide to purchase two Isilon clusters. They do not want to spend money unnecessarily. Which licenses must they acquire?

- A.** SyncIQ license at source and target clusters. SnapshotIQ license at source and target clusters.
- B.** SyncIQ license at source cluster only. SnapshotIQ license at source cluster only.
- C.** SyncIQ license at target cluster only. SnapshotIQ license at target cluster only.
- D.** SyncIQ license at source and target clusters. SnapshotIQ license at target cluster only.

Answer: D