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QUESTION 1

A four node F800 Isilon cluster running OneFS 8.2.1 has a dedicated subnet and IP pool for SMB data traffic. SmartConnect Advanced license is applied. The SMB IP pool consists of LACP aggregated. 10GigE interfaces from all the nodes. What is the maximum number of SmartConnect Service IPs recommended for the SMB subnet?

- A. 1
- B. 2
- C. 4
- D. 6

Correct Answer: A

Reference: <https://www.dellemc.com/en-us/collaterals/unauth/white-papers/products/storage/h16857-wp-onefs-best-practices.pdf> (19)

QUESTION 2

Which tool measures actual throughput and produces sophisticated graphs?

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

Correct Answer: B

QUESTION 3

During a write process in OneFS 8.0, from which cache are blocks copied to disk?

- A. L3
- B. L2
- C. Endurant
- D. L1

Correct Answer: C

QUESTION 4

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

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

Correct Answer: A

QUESTION 5

A customer has 10 nodes in a cluster using N+2 protection. What is the minimum number of nodes required to be online and in communication with one another to satisfy quorum?

- A. 4
- B. 5
- C. 6
- D. 7

Correct Answer: C

QUESTION 6

A customer is able to see some performance metrics in the Isilon OneFS dashboard or by using CLI. Other performance metrics will require InsightIQ.

What will require a licensed version of InsightIQ?

- A. Capacity Trending
- B. Cluster Throughput
- C. CPU Usage
- D. Active Client Connections

Correct Answer: B

QUESTION 7

A customer plans to migrate data to a remote Isilon cluster. What is a consideration when configuring a cluster with SyncIQ and hard SmartQuotas?

- A. SyncIQ ignores quota limits during replication but if a quota is over limit, quotas will still allow users to add data to the directory.

- B. Quotas should be configured on both SynclQ source and target directories prior to a migration.
- C. SynclQ will replicate source quota configurations to the target.
- D. Quotas should be set only on source directories and never on target directories for migrations.

Correct Answer: A

Reference: <https://www.dellemc.com/resources/en-us/asset/white-papers/products/storage/h10575-wp-quota-management-with-smartquotas.pdf> (27)

QUESTION 8

A customer is inquiring about expanding their primary cluster consisting of six S-Series nodes in order to improve performance. They have a second cluster with 11 X-Series nodes. Both clusters leverage 1GbE, but the customer recently installed a 10GbE network that can be utilized. They also have multiple Fibre Channel SAN arrays in their environment.

They have a variety of workloads on each cluster and are in the process of determining which workloads belong on which cluster. They have discovered that one of the workloads- a SQL database that resides on the X-Series node cluster - is experiencing timeouts due to latency. The database vendor has suggested limiting latency to 5ms or less to eliminate these timeouts.

How do you advise the customer?

- A. Consider migrating data from Isilon to one of their SAN platforms or proposing a new solution to handle the performance requirements of SQL.
- B. Merge the S-Series nodes and X-Series nodes into one cluster, upgrade the 1GbE to 10GbE, and leverage SmartPools to allow for the cluster to determine where data should reside.
- C. Suggest the customer consider leveraging SSDs in the new nodes they purchase and GNA to boost the performance of each cluster.
- D. Recommend they increase the amount of DRAM in the cluster or consider an Accelerator node in order to increase the amount of cache in their cluster.

Correct Answer: A

QUESTION 9

A customer wants an N+3 protection level on their cluster. What is the minimum number of nodes they need to achieve that level of protection?

- A. 3
- B. 6
- C. 7
- D. 8

Correct Answer: C

QUESTION 10

Which license is a prerequisite for enabling CloudPools?

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

Correct Answer: A

QUESTION 11

A customer has grown 2 PB in the last year. The cluster performs well most times of the day, but occasionally during the day, the customer notices a decrease in performance. You have been told that `tree-deletes` are taking too long and can only be run on weekends.

What would you recommend to speed up the `tree-deletes`?

- A. Add an SSD node tier for metadata to account for at least 2% of RAW capacity
- B. Use an A100 node for added CPU performance to help with `tree-deletes`
- C. Add 20% more nodes to the cluster to help with degraded performance.
- D. Add an SSD tier for metadata, ensuring all nodes have SSDs.

Correct Answer: A

QUESTION 12

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 5-node Isilon cluster. They have enabled the Hadoop cluster to access the files directly on the Isilon storage. 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. Five
- B. One
- C. Three
- D. Two

Correct Answer: A

QUESTION 13

A potential customer is considering replacing a four year old, Linux-based NFS server with 40TB of usable capacity. The existing system supports home directories, an internal website, and a content repository for the customer's content management system. The customer is concerned about performance of any new solution because they expect to double workload in the content management system.

What tools can be used to collect performance data needed to size the new solution?

- A. iostat and nfsstat
- B. Perfmon and sysstat
- C. Isi statistics and Wireshark
- D. Syslog and vmstat

Correct Answer: A

Reference: <http://agiletesting.blogspot.com/2009/11/nfs-troubleshooting-with-iostat-and.html>

QUESTION 14

What is used to set permissions for ESRS-managed devices?

- A. Policy Manager
- B. InsightIQ
- C. ESRS gateway
- D. SupportIQ

Correct Answer: A

Explanation: The Policy Manager enables you to set permissions for devices being managed by ESRS. Reference: <https://www.emc.com/collateral/TechnicalDocument/docu55298.pdf>

QUESTION 15

What accurately represents Isilon SyncIQ Automated Failover?

- A. SmartLock directories will automatically failover
- B. Replication relationships will change upon failover
- C. No changes in Identity Management will be needed
- D. Target directories will not need to be shared with clients

Correct Answer: C

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