

# DES-1423<sup>Q&As</sup>

Specialist Implementation Engineer Isilon Solutions Exam

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**QUESTION 1**

In Isilon OneFS, what is a characteristic of CoW with snapshots?

- A. Used for small changes, inodes, and directories.
- B. Avoids the double write penalty.
- C. Increases file fragmentation.
- D. Used for more substantial changes such as deletes.

Correct Answer: A

With copy on write, as the name suggests, a new write to HEAD results in the old blocks being copied out to the snapshot version first. Although this incurs a double write penalty, it results in less fragmentation of the HEAD file, which is better

for cache prefetch, etc.

Typically, CoW is most prevalent in OneFS and is primarily used for small changes, inodes and directories.

Reference: <https://www.dellemc.com/resources/en-us/asset/white-papers/products/storage/h15048-wp-next-gen-data-protection-snapshot-iq.pdf>

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**QUESTION 2**

A company plans to build two Isilon clusters in an active-active disaster recovery environment. The initial requirement is to have one access zone for their Finance department. Which recommended directory structure meets the requirement?

- A. Cluster\_A: /ifs/cluster\_a/finance /ifs/cluster\_b/finance Cluster\_B: /ifs/cluster\_a/finance /ifs/cluster\_b/finance
- B. Cluster\_A: /ifs/finance /ifs/finance Cluster\_B: /ifs/finance /ifs/finance
- C. Cluster\_A: /ifs/finance/cluster\_a /ifs/finance/cluster\_b Cluster\_B: /ifs/finance/cluster\_a /ifs/finance/cluster\_b
- D. Cluster\_A: /ifs/cluster\_a /ifs/cluster\_b Cluster\_B: /ifs/cluster\_a /ifs/cluster\_b

Correct Answer: A

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**QUESTION 3**

What is the maximum number of active Swift connections on a 5-node Isilon cluster?

- A. 250
- B. 500
- C. 750

D. 1000

Correct Answer: C

Reference: <https://www.dellemc.com/en-us/collaterals/unauth/technical-guides-support-information/products/storage-5/docu65240.pdf> (10)

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#### QUESTION 4

A company has an existing 8-node F800 Isilon cluster with two Z9100 Dell Ethernet back-end switches running on OneFS 8.2.0. The company is planning to add 72 A200 nodes into the cluster. What is the minimum number of additional switches required to support the configuration?

A. 2

B. 3

C. 4

D. 6

Correct Answer: D

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#### QUESTION 5

Which data access pattern makes the prefetch caching algorithm to be highly aggressive?

A. Random

B. Parallel

C. Concurrency

D. Streaming

Correct Answer: D

Reference: <https://community.emc.com/community/products/isilon/blog/2017/04/05/smartpools-data-layout-prefetch>

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