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## Exam Associate Cloud Engineer All Questions

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### EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 107 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 107

Topic #: 1

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You are building an archival solution for your data warehouse and have selected Cloud Storage to archive your data. Your users need to be able to access this archived data once a quarter for some regulatory requirements. You want to select a cost-efficient option. Which storage option should you use?

- A. Cold Storage
- B. Nearline Storage
- C. Regional Storage
- D. Multi-Regional Storage

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by  [droogie](#) at June 13, 2020, 6:32 p.m.

### Comments

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  [Teegongkia](#) [Highly Voted](#)  4 years, 3 months ago

Took ACE last week and the exact question came out. I go with B as i felt A is a trick answer. There is no Cold Storage in GCP.

? ? ? upvoted 36 times

? ? **ssankar** 4 years, 2 months ago

Hello Teegongkia ,  
is the questions are still valid ??  
Thanks

? ? ? upvoted 1 times

? ? **BenAji** 3 years, 6 months ago

Cold data tiering refers to the storage of less frequently, or sporadically accessed data in low cost media such as HDFS (Hadoop Distributed File System) and cloud storage options including Amazon Web Services (AWS), Google Cloud Platform (GCP), and Azure Data Lake Storage (ADLS) that are managed separately from the SAP HANA database, but still accessible at any time. [blogs.sap.com/2018/12/03/what-is-sap-hana-cold-data-tiering/](https://blogs.sap.com/2018/12/03/what-is-sap-hana-cold-data-tiering/)

? ? ? upvoted 1 times

? ? **droogie** **Highly Voted** ? 4 years, 4 months ago

This one is confusing. First, there's no 'Cold' storage. It's Coldline.  
Nearline Storage is ideal for data you plan to read or modify on average once per month or less. Coldline Storage is ideal for data you plan to read or modify at most once a quarter.  
<https://cloud.google.com/storage/docs/storage-classes>

So with the misspelling of 'Cold' and these guys accessing it every 90 days, I'm leaning towards Nearline

? ? ? upvoted 18 times

? ? **TAvenger** 3 years, 8 months ago

I believe the question is old, when Regional and Multi-Regional were also storage classes of the GCS.  
Before changes: (Multi-Region, Regional, Nearline, Coldline)  
After recent changes we have  
- Storage Classes (Standard, Nearline, Coldline, Archive)  
- Storage Locations (Regional, Dual-region, Multi-Region)  
It's tricky for exam because we don't to answer according to old version or new version.  
For the latest version, costs for 1Gb for storing (3 month) + retrieval  
Nearline:  $0.01 * 3 + 0.01 = 0.04$   
Coldline:  $0.004 * 3 + 0.02 = 0.032$   
Coldline is more cost effective.  
If "Cold" means Coldline (not Archive) the answer is A  
If "Cold" means Archive the answer is B

I hope that "Cold" means Coldline. I would try with A

? ? ? upvoted 2 times

? ? **ri\_unhou119** 3 years, 5 months ago

A:  
Google Cloud doc:  
<https://cloud.google.com/storage/docs/storage-classes#coldline>

? ? ? upvoted 1 times

? ? **obeythefist** 2 years, 7 months ago

Yes, but the question says the data will be accessed once per quarter, Google's documentation tells us that Coldline is most suitable for data accessed less than once per quarter. This direct part of the question tells us how we must answer.

? ? ? upvoted 4 times

? ? **Eshkrkrkr** 3 years, 11 months ago

It's a typo. Google wouldn't force to consume knowledge that is a non-best practice from Google. Answer is A.

? ? ? upvoted 4 times

? ? **lxgywil** 3 years, 5 months ago

For Google, these exams are just another business.

? ? ? upvoted 8 times

? ? **DickDastardly** 3 years, 7 months ago

"Cold" is not a typo. I took the exam today and the answers appeared exactly as listed here.

? ? ? upvoted 12 times

? ? **sarahf** 3 years, 10 months ago

At the page for data archiving (<https://cloud.google.com/storage/archival>) the first paragraph says: "Coldline is also ideal for cold storage—data your business expects to touch less than once a quarter."  
So there is such thing as Cold storage according to Google.

Also at (<https://cloud.google.com/storage/docs/storage-classes#archive>) they talk about Cold storage: "Cold data storage - Archived data, such as data stored for legal or regulatory reasons, can be stored at low cost as Archive Storage, yet still be available if you need it."

? ? ? upvoted 17 times

? ? sanhoo 3 years, 4 months ago

Thanks for bringing this up. Really helpful.

? ? ? upvoted 1 times

? ? sanhoo 3 years, 4 months ago

This line indicates that cold storage term is used for - archival / coldline

"With low latency and a consistent API across Cloud Storage, Archive and Coldline introduce cold storage you can actually use" <https://cloud.google.com/storage/archival>

? ? ? upvoted 2 times

? ? denno22 **Most Recent** ? 3 weeks, 3 days ago

**Selected Answer: B**

There is no such thing as Cold Storage, only Coldline storage.

Nearline storage is ideal for data you plan to read or modify on average once per month or less. For example, if you want to continuously add files to Cloud Storage and plan to access those files once a month for analysis, Nearline storage is a great choice.

<https://cloud.google.com/storage/docs/storage-classes>

? ? ? upvoted 1 times

? ? ccpmad 4 months, 4 weeks ago

**Selected Answer: B**

For data accessed less than once a year, Archive

Ok, once a quarter, is 4 times per year, so Cold Storage is not correct for this

? ? ? upvoted 1 times

? ? RVSubbareddy 5 months, 2 weeks ago

**Selected Answer: A**

we have to consider it as coldline storage

? ? ? upvoted 1 times

? ? Jonassamr 6 months ago

**Selected Answer: B**

i think it's B

? ? ? upvoted 1 times

? ? TanTran04 7 months ago

**Selected Answer: A**

once a quarter  $\Leftrightarrow$  90 days

$\Rightarrow$  A. Cold Storage

? ? ? upvoted 2 times

? ? guru\_ji 8 months, 2 weeks ago

**Selected Answer: B**

users need to be able to access this archived data once a quarter .

B is correct.

? ? ? upvoted 1 times

? ? kelliott 10 months, 4 weeks ago

**Selected Answer: A**

Nearline - 30 days

Coldline - 60 days

So, the answer is A

? ? ? upvoted 2 times

? ? Rahaf99 11 months, 1 week ago

**Selected Answer: A**

It actually depends on the company. But in case of this question, you have to follow what google said in the course which is, "Nearline" is when you are accessing once a month when coldline where you want to access the data once every quarter. So its A

? ? ? upvoted 1 times

? ? **BAofBK** 11 months, 2 weeks ago

Coldline storage option is the answer

? ? ? upvoted 1 times

? ? **cooldude26** 11 months, 4 weeks ago

**Selected Answer: A**

Its option A : cold storage

Cold data storage - Archived data, such as data stored for legal or regulatory reasons, can be stored at low cost as Archive storage, yet still be available if you need it.

<https://cloud.google.com/storage/docs/storage-classes#archive>

? ? ? upvoted 1 times

? ? **HemrajLodhi** 12 months ago

Cold Storage is not a correct category, it should be cold line in case if considered as solution

? ? ? upvoted 1 times

? ? **AdelElagawany** 1 year ago

Cold data storage = Archive storage as per this: <https://cloud.google.com/storage/docs/storage-classes#archive> so I will suggest Nearline storage as the correct answer

? ? ? upvoted 1 times

? ? **ekta25** 1 year ago

A. Cold Storage

Coldline storage is designed for data that is accessed roughly less than once a quarter<sup>2</sup>. It offers 99% availability and is cost-efficient compared to other storage classes<sup>2</sup>. This makes it a suitable choice for archival solutions where data needs to be accessed infrequently, such as once a quarter for regulatory requirements

? ? ? upvoted 1 times

? ? **scanner2** 1 year, 1 month ago

**Selected Answer: B**

Most appropriate answer here would be Coldline storage, but since this is not present in the given options, so next best answer is Nearline storage.

Cold storage is not a valid cloud storage class.

? ? ? upvoted 2 times

? ? **cheny** 1 year, 1 month ago

Standard storage -- Hot storage

Nearline storage -- Warm storage

Coldline & Archive storage --- Cold storage

? ? ? upvoted 1 times

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