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## **EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 168 DISCUSSION**

Actual exam question from Google's Associate Cloud Engineer

Question #: 168

Topic #: 1

[All Associate Cloud Engineer Questions]

You are working for a hospital that stores its medical images in an on-premises data room. The hospital wants to use Cloud Storage for archival storage of these images. The hospital wants an automated process to upload any new medical images to Cloud Storage. You need to design and implement a solution. What should you do?

- A. Create a Pub/Sub topic, and enable a Cloud Storage trigger for the Pub/Sub topic. Create an application that sends all medical images to the Pub/Sub topic.
- B. Deploy a Dataflow job from the batch template, *x*€Datastore to Cloud Storage.*x*€ Schedule the batch job on the desired interval.
- C. Create a script that uses the gsutil command line interface to synchronize the on-premises storage with Cloud Storage. Schedule the script as a cron job.
- D. In the Cloud Console, go to Cloud Storage. Upload the relevant images to the appropriate bucket.

**Show Suggested Answer** 

by raman23125 at March 14, 2021, 6:54 a.m.

## Comments

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? TAvenger Highly Voted ? 3 years, 7 months ago From the question the key point is "upload ANY NEW medical images to Cloud Storage". So we are not interested in o images. That's why we need some trigger that will upload images. I think option "A" with PubSub is the best ? ? upvoted 26 times	ld
<ul> <li>? dunhill 3 years, 7 months ago</li> <li>I am not sure but the question also mentions that "wants to use Cloud Storage for archival storage of these images' can create an application that sends all medical images to storage and no need via PubSub?</li> <li>? ? upvoted 1 times</li> </ul>	". It
? pca2b 3 years, 6 months ago Pub/Sub will be good for all future files in in-prem data-storage.	
we want to sync all + new, so a local on-prem server running a cron job (not GCE CronJob) to run gsutil to transfer to Cloud Storage would work.	files
I vote for C ? ? upvoted 5 times	
<ul> <li>? yvinisiupacuando 3 years, 5 months ago</li> <li>Sorry you are wrong, the question clearly indicates "The hospital wants an automated process to upload ANY NI medical images to Cloud Storage." It does not mention the need to upload the original stock of images, only the ones. Then I think the right answer must be A, as you said "Pub/sub will be good for all future files in prem data-storage" which is exactly what the questions is pointing to.</li> <li>? ? upvoted 6 times</li> </ul>	new
<ul><li>? gcpengineer 3 years, 2 months ago</li><li>ans is C</li><li>? ? upvoted 3 times</li></ul>	
<ul> <li>? Priyanka109 2 years ago</li> <li>In option C we are using a cron job, not dragging and dropping the images.</li> <li>? ? 2 upvoted 1 times</li> </ul>	
<ul> <li>GCP_Student1 Highly Voted 2 3 years, 7 months ago</li> <li>C. Create a script that uses the gsutil command line interface to synchronize the on-premises storage with Cloud Stora Schedule the script as a cron job.</li> <li>? ? upvoted 22 times</li> </ul>	зge.
<ul> <li>? cserra 2 years, 2 months ago</li> <li>Where does it say that the on-premises images are already digitized? and even if they are, where does it say that we keep the old images?</li> <li>I think the correct answer is "A"</li> <li>? ? upvoted 1 times</li> </ul>	e also
2 2 the PeatStudent 2 years 1 month ago	

! !! theBestStudent 2 years, 1 month ago

Tell yo yourself how the images would end up in the pubsub first of all. Also usually the process is in the other way around for pubsub notifications: Once an object lands in GCS the pubsub is notified of it.

Option A makes totally nonsense. Check the flow again.

From the options the only one that "makes more sense" is Option C

? ? upvoted 6 times

? Cynthia2023 Most Recent ? 9 months, 3 weeks ago

## Selected Answer: C

A. Pub/Sub Topic with Cloud Storage Trigger: While Cloud Pub/Sub is great for event-driven architectures, it's not directly applicable for file synchronization scenarios. It would also require substantial modification to the existing infrastructure to send images to Pub/Sub.

B. Dataflow Job: Dataflow is a powerful service for stream and batch data processing, but using it solely for file synchronization is overkill. It also requires more setup and maintenance compared to a simple gsutil script.

D. Manual Upload in Cloud Console: This is not feasible for an automated process, as it requires manual intervention and isn't practical for a large number of files.

? ? upvoted 7 times

?	☑jkim1708 1 year, 1 month ago
	Selected Answer: A
	I am also for A. Any new data should be send to Cloud Storage. Yes you need to create an application. To send data to
	pubsub. But for possible migration to cloud you can use the existing setup
_	? ? upvoted 1 times
?	Captain1212 1 year, 1 month ago
	Selected Answer: C
	C is the right answer as they want the automated process to upload any new medical image
	? ? upvoted 2 times
?	? respawn 1 year, 1 month ago
	Selected Answer: C
	C is correct.
	A will not work because pub/sub is meant for service to service communication only: https://cloud.google.com/pubsub/docs/overview#compare_service-to-service_and_service-to-client_communication
	Yes C option will sync any new images from onprem to cloud.
	? ? upvoted 2 times
?	shreykul 1 year, 3 months ago
	Selected Answer: A
	New images can use Pub/Sub
	? ? upvoted 1 times
?	Charumathi 2 years ago
	Selected Answer: C
	C is the correct answer.
	Keyword, they require cloud storage for archival and the want to automate the process to upload new medical image to
	cloud storage, hence we go for gsutil to copy on-prem images to cloud storage and automate the process via cron job. whereas Pub/Sub listens to the changes in the Cloud Storage bucket and triggers the pub/sub topic, which is not required.
	? ? upvoted 8 times
	upvoted o times
	? Naree 1 year, 3 months ago
	I agree. The requirement is for both history images and future images. So I go with Option "C".
	? ? upvoted 2 times
?	? zolthar_z 2 years, 2 months ago
	Selected Answer: C
	The Hospital wants Cloud storage for archival of old images and also sync the new images, for this logic the answer is C
	? ? upvoted 3 times
?	AzureDP900 2 years, 4 months ago
	C is correct
_	? ? upvoted 1 times
?	?jblima 2 years, 5 months ago
	Selected Answer: C
	C is correct.
	? ? upvoted 1 times
?	? wael_tn 2 years, 6 months ago
	Selected Answer: C
	Discarding (A) because "Cloud Storage trigger". So for option A the triggering event should be making a change in Cloud Storage, while in the real use case, the triggering should be adding a new medical image to the "on-premises data room"
	? ? upvoted 4 times
	E E uproted 4 times
	? theBestStudent 2 years, 1 month ago
	Correct, and on top of that, how are they suppose to connect the on premises to the cloud. Nothing is mentioned. But
	either way, option A does not make sense at all (as you already explained too). Correct option: C  ?
<u></u>	
ك	Somenick 2 years, 7 months ago
	Selected Answer: C  I would go with C
	1 WYARINI ANA WULLIA A

Not A, don't think you can send image files to Pub/Sub. Technically you can do so by converting image to some binary text, but then we don't know the size of the image and there is a limitation on message size. Not recommended.

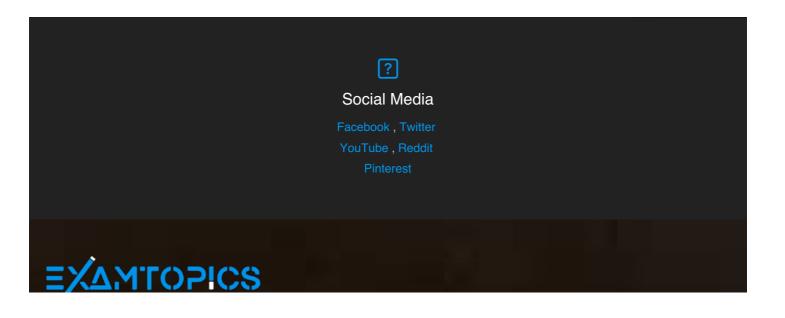
	Not B – there is only this template "Datastore to Cloud Storage Text", as the name implies it is for text, https://cloud.google.com/dataflow/docs/guides/templates/provided-batch#datastore-to-cloud-storage-text, and it reads from datastore which is definitely not where the medical images are stored, from the question " stores its medical images in an on-premises data room".
	Not D – it's not automated
	? ? upvoted 3 times
?	lilapause 2 years, 8 months ago
	Selected Answer: C
	Pub/Sub could make sense if you ignore the size limit. But the way it is described with the storage trigger would just not be
	working.
_	? ? upvoted 1 times
?	exam_war 2 years, 9 months ago
	A is correct. The key is automation whenever there is a new image, it needs to upload to cloud storage. Only pub/sub can make the automation work.
	? ? upvoted 1 times
?	[Removed] 2 years, 9 months ago
	I think A(once the hospital receive the new images Cloud pub/sub will act on it) and C(creating a script with rsync command https://stackoverflow.com/questions/37662416/how-to-sync-a-local-folder-with-a-folder-in-a-google-cloud-platform-bucket) must be the Correct options
	? ? upvoted 1 times

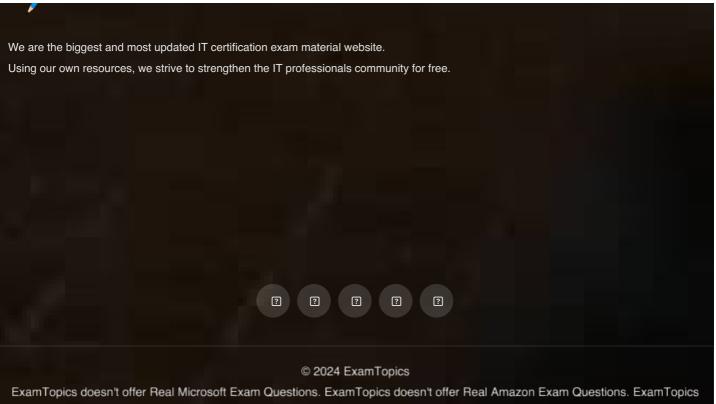
" any new medical images" so "A" using Pub\Sub
? ? upvoted 1 times

? RealEL40 2 years, 10 months ago

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