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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 8 DISCUSSION

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 8

Topic #: 1

[All Professional Machine Learning Engineer Questions]

You work for a public transportation company and need to build a model to estimate delay times for multiple transportation routes. Predictions are served directly to users in an app in real time. Because different seasons and population increases impact the data relevance, you will retrain the model every month. You want to follow Google-recommended best practices. How should you configure the end-to-end architecture of the predictive model?

- A. Configure Kubeflow Pipelines to schedule your multi-step workflow from training to deploying your model.
- B. Use a model trained and deployed on BigQuery ML, and trigger retraining with the scheduled query feature in BigQuery.
- C. Write a Cloud Functions script that launches a training and deploying job on Al Platform that is triggered by Cloud Scheduler
- D. Use Cloud Composer to programmatically schedule a Dataflow job that executes the workflow from training to deploying your model.

Show Suggested Answer

by \(\text{\text{\text{gcp2021go}}}\) at \(June 5, 2021, 6:30 \, p.m. \)

Comments

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□ ♣ Paul_Dirac	Highly Voted ★ 3 years, 4 months ago
(https://www.ki B. BigQuery M at the end of th C. Cloud Sche steps. Besides D. A Dataflow	ipelines can form an end-to-end architecture ubeflow.org/docs/components/pipelines/overview/pipelines-overview/) and deploy models. L can't offer an end-to-end architecture because it must use another tool, like AI Platform, for serving models ne process (https://cloud.google.com/bigquery-ml/docs/export-model-tutorial#online_deployment_and_serving). duler can trigger the first step in a pipeline, but then some orchestrator is needed to continue the remaining that having Cloud Scheduler alone can't ensure failure handling during pipeline execution. job can't deploy models, it must use AI Platform at the end instead.
🗆 🏝 q4exam 🤅	3 years, 1 month ago
•	an deploy model this is how you do stream inference on stream
nd 🦘 🎮	upvoted 1 times
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shenani Among t	can but it is not supposed to do that. DF is for data processing and transformation. you would loose all gans kubeflow provide as native. the two answers, i think A is the most correct upvoted 2 times
	seUwU 3 years ago
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the answer is I asked for end- composer-Cux	D. found similar explaination in this course. open for discussion. I found B could also work, but the question to end, thus I choose D in stead of B https://www.coursera.org/lecture/ml-pipelines-google-cloud/what-is-cloud-
🖯 🏜 tavva pri	udhvi 1 year, 7 months ago
D is incorre recommend used for tra	ct. Cloud Composer is a fully managed workflow orchestration service built on Apache Airflow. It is a ded way by Google to schedule continuous training jobs. But it isn't used to run the training jobs. Al Platform is ining and deployment. upvoted 1 times
	Most Recent ② 3 weeks, 6 days ago
Selected Answer: A	
Req: retrain th	e model every month+ Google-recommended best practice+ end-to-end architecture ubeflow Pipelines to schedule your multi-step workflow from training to deploying your model. : Supports all
Why BigQuery C. Write a Clo	el trained and deployed on BigQuery ML, and trigger retraining with the scheduled query feature in BigQuery: ML when vertexAl/kubflow can handle end to end. BigQuery ML+ traigger only initiate the code run. ud Functions script that launches a training and deploying job on Al Platform that is triggered by Cloud of recommended by google for end to end ML
your model. : N	Composer to programmatically schedule a Dataflow job that executes the workflow from training to deploying Not recommended by google for end to end ML. what if model fails? matrix monitor?
	I months, 2 weeks ago
Selected Answer: A	
	ipelines is the answer.
	voted 1 times
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Selected Answer: A
Chose A

Selected Answer: A

U - Datatiow job can't deploy models B,C are not - are not complete solutions leaving A to be the correct one upvoted 1 times 🖃 🏜 suranga4 1 year, 1 month ago Answer is A upvoted 1 times ■ M25 1 year, 5 months ago Selected Answer: A Went with A upvoted 1 times 🖃 🚨 John_Pongthorn 1 year, 8 months ago Selected Answer: A A: Yet the newer is Vertext-Al Pipeline built on Kubeflow upvoted 1 times 🗏 🎍 Fatiy 1 year, 8 months ago Selected Answer: A A: In this case, it would be a good fit as you need to retrain your model every month, which can be automated with Kubeflow Pipelines. This makes it easier to manage the entire process, from training to deploying, in a streamlined and scalable manner. upvoted 1 times EFIGO 1 year, 11 months ago Selected Answer: A A is correct All the options get you to the required result, but only A follows the Google-recommended best practices upvoted 1 times abhi0706 1 year, 11 months ago Answer is A: Kubeflow Pipelines can form an end-to-end architecture upvoted 1 times □ ♣ GCP72 2 years, 2 months ago Selected Answer: A Correct answer is "A" upvoted 1 times acaohieu04 2 years, 7 months ago Selected Answer: A Community vote upvoted 2 times lordcenzin 2 years, 8 months ago Selected Answer: A A for me too. KF provides all the end2end tools to perform what is asked upvoted 2 times a gcper 3 years, 1 month ago Kubeflow can handle all of those things, including deploying to a model endpoint for real-time serving. upvoted 2 times E acelia20200410 3 years, 3 months ago https://medium.com/google-cloud/how-to-build-an-end-to-end-propensity-to-purchase-solution-using-bigguery-ml-andkubeflow-pipelines-cd4161f734d9#75c7 To automate this model-building process, you will orchestrate the pipeline using Kubeflow Pipelines, 'a platform for building

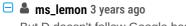
= 4 q4exam 3 years, 1 month ago

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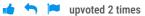
I think both A and D are correct because it is just different fashion of doing ML ...

and deploying portable, scalable machine learning (ML) workflows based on Docker containers.'

👍 🤚 🎮 upvoted 1 times



But D doesn't follow Google best practices



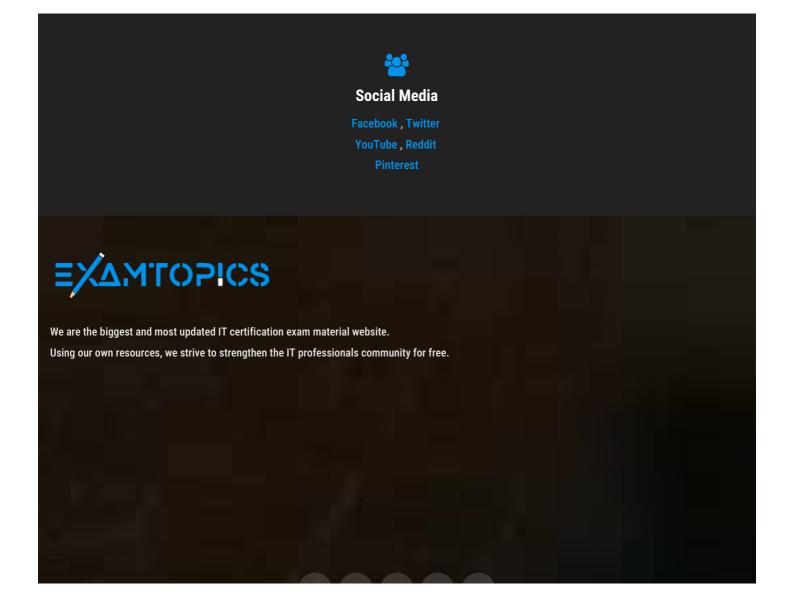
■ deorge_ognyanov 2 years, 12 months ago

Answer seems to be A really. Here is a link from Google-recommended best practices. They are talking about Vertex AI Pipelines, which are essentially Kubeflow.

https://cloud.google.com/architecture/ml-on-gcp-best-practices? hl=en#machine-learning-workflow-orchestration

upvoted 3 times

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