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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 224 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 224

Topic #: 1

[All Professional Machine Learning Engineer Questions]

You are building a MLOps platform to automate your company's ML experiments and model retraining. You need to organize the artifacts for dozens of pipelines. How should you store the pipelines' artifacts?

- A. Store parameters in Cloud SQL, and store the models' source code and binaries in GitHub.
- B. Store parameters in Cloud SQL, store the models' source code in GitHub, and store the models' binaries in Cloud Storage.
- C. Store parameters in Vertex ML Metadata, store the models' source code in GitHub, and store the models' binaries in Cloud Storage.
- D. Store parameters in Vertex ML Metadata and store the models' source code and binaries in GitHub.

Show Suggested Answer

by Apikachu007 at Jan. 13, 2024, 7:24 a.m.

Comments

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🖃 🏜 fitri001 6 months, 3 weeks ago

Selected Answer: C

Vertex ML Metadata: This service is specifically designed to store and track metadata for ML pipelines, including parameters. It provides a centralized location to manage and query pipeline execution details, making it ideal for dozens of pipelines. Cloud Storage: This is a scalable and cost-effective storage solution for model binaries. It integrates well with Vertex AI and other cloud services.

GitHub: While not a Google Cloud service, it's a popular version control system well-suited for storing and managing your models' source code, particularly for collaboration among team members.

upvoted 3 times

🖯 🏜 fitri001 6 months, 3 weeks ago

A. Cloud SQL for Parameters: While Cloud SQL is a relational database service, Vertex ML Metadata offers a dedicated solution for ML metadata management, including parameters, providing better integration and functionality within the MLOps context.

D. Vertex ML Metadata for Source Code and Binaries: Vertex ML Metadata is primarily focused on ML pipeline metadata and experiment tracking. Cloud Storage is a more appropriate service for storing large binary files like model artifacts.

upvoted 1 times

■ pinimichele01 7 months ago

Selected Answer: C

shadz10

upvoted 1 times

■ shadz10 9 months, 3 weeks ago

Selected Answer: C

https://cloud.google.com/architecture/architecture-for-mlops-using-tfx-kubeflow-pipelines-and-cloud-build

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pikachu007 9 months, 3 weeks ago

Selected Answer: C

A. Cloud SQL and GitHub: Cloud SQL isn't designed for ML metadata management, potentially leading to challenges in tracking experiment details and lineage.

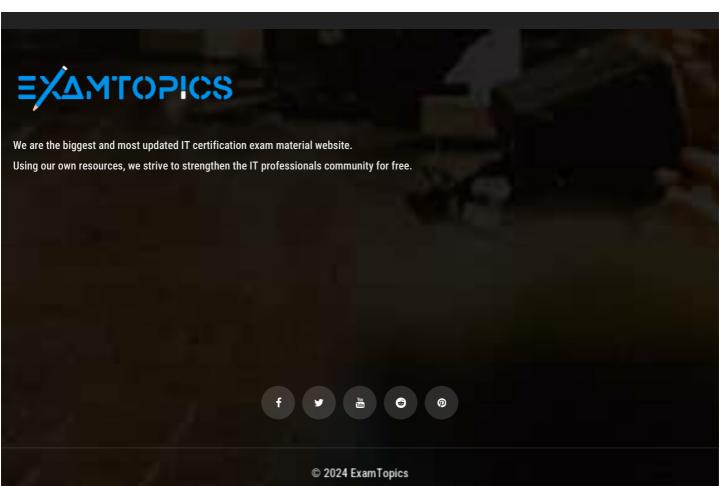
B. Cloud SQL, GitHub, and Cloud Storage: While viable, this approach misses the benefits of Vertex ML Metadata for organized ML artifact management.

D. Vertex ML Metadata and GitHub: Storing model binaries in GitHub can be inefficient for large files and might incur higher storage costs.

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