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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 243 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 243

Topic #: 1

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You work on a team that builds state-of-the-art deep learning models by using the TensorFlow framework. Your team runs multiple ML experiments each week, which makes it difficult to track the experiment runs. You want a simple approach to effectively track, visualize, and debug ML experiment runs on Google Cloud while minimizing any overhead code. How should you proceed?

- A. Set up Vertex AI Experiments to track metrics and parameters. Configure Vertex AI TensorBoard for visualization.
- B. Set up a Cloud Function to write and save metrics files to a Cloud Storage bucket. Configure a Google Cloud VM to host TensorBoard locally for visualization.
- C. Set up a Vertex AI Workbench notebook instance. Use the instance to save metrics data in a Cloud Storage bucket and to host TensorBoard locally for visualization.
- D. Set up a Cloud Function to write and save metrics files to a BigQuery table. Configure a Google Cloud VM to host TensorBoard locally for visualization.

Show Suggested Answer

by [pikachu007](#) at Jan. 13, 2024, 9:07 a.m.

Comments

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  **b1a8fae** Highly Voted  9 months, 2 weeks ago

Selected Answer: A

You want to run, track, visualize ML experiments -> look no further, Vertex AI experiments.

   upvoted 5 times

  **fitri001** Most Recent  6 months, 3 weeks ago



Selected Answer: A

Built-in Tracking: Vertex AI Experiments is specifically designed for tracking ML experiments on Google Cloud. It simplifies logging metrics and parameters, eliminating the need for custom code.

TensorBoard Integration: Vertex AI integrates with TensorBoard, allowing visualization of training logs and metrics directly within the Experiments interface. This provides a centralized location for both tracking and visualization.

Minimized Overhead: This approach leverages existing services, minimizing the need for additional code or infrastructure setup compared to options with Cloud Functions or VMs.

   upvoted 2 times

  **pikachu007** 9 months, 3 weeks ago

Selected Answer: A

Options B and D: These options involve more setup and maintenance overhead, as they require managing Cloud Functions, VMs, and storage resources.

Option C: Vertex AI Workbench is excellent for interactive experimentation, but it's not optimized for long-term experiment tracking and visualization.

   upvoted 3 times

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