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QUESTION 1

You are developing reusable infrastructure as code modules. Each module contains integration tests that launch the module in a test project. You are using GitHub for source control. You need to continuously test your feature branch and ensure that all code is tested before changes are accepted. You need to implement a solution to automate the integration tests. What should you do?

- A. Use a Jenkins server for CI/CD pipelines. Periodically run all tests in the feature branch.
- B. Ask the pull request reviewers to run the integration tests before approving the code.
- C. Use Cloud Build to run the tests. Trigger all tests to run after a pull request is merged.
- D. Use Cloud Build to run tests in a specific folder. Trigger Cloud Build for every GitHub pull request.

Correct Answer: C

<https://cloud.google.com/build/docs/automating-builds/create-manage-triggers>

QUESTION 2

Your team is designing a new application for deployment both inside and outside Google Cloud Platform (GCP). You need to collect detailed metrics such as system resource utilization. You want to use centralized GCP services while minimizing the amount of work required to set up this collection system. What should you do?

- A. Import the Stackdriver Profiler package, and configure it to relay function timing data to Stackdriver for further analysis.
- B. Import the Stackdriver Debugger package, and configure the application to emit debug messages with timing information.
- C. Instrument the code using a timing library, and publish the metrics via a health check endpoint that is scraped by Stackdriver.
- D. Install an Application Performance Monitoring (APM) tool in both locations, and configure an export to a central data storage location for analysis.

Correct Answer: A

<https://cloud.google.com/profiler/docs/about-profiler>

Cloud Profiler is a statistical, low-overhead profiler that continuously gathers CPU usage and memory-allocation information from your production applications.

QUESTION 3

You support a high-traffic web application and want to ensure that the home page loads in a timely manner. As a first step, you decide to implement a Service Level Indicator (SLI) to represent home page request latency with an acceptable page load time set to 100 ms. What is the Google-recommended way of calculating this SLI?

- A. Bucketize the request latencies into ranges, and then compute the percentile at 100 ms.



- B. Bucketize the request latencies into ranges, and then compute the median and 90th percentiles.
- C. Count the number of home page requests that load in under 100 ms, and then divide by the total number of home page requests.
- D. Count the number of home page request that load in under 100 ms, and then divide by the total number of all web application request.

Correct Answer: C

Reference: <https://sre.google/workbook/implementing-slos/>

QUESTION 4

You support a Node.js application running on Google Kubernetes Engine (GKE) in production. The application makes several HTTP requests to dependent applications. You want to anticipate which dependent applications might cause performance issues. What should you do?

- A. Instrument all applications with Stackdriver Profiler.
- B. Instrument all applications with Stackdriver Trace and review inter-service HTTP requests.
- C. Use Stackdriver Debugger to review the execution of logic within each application to instrument all applications.
- D. Modify the Node.js application to log HTTP request and response times to dependent applications. Use Stackdriver Logging to find dependent applications that are performing poorly.

Correct Answer: B

Stackdriver Trace allows you to collect and analyze performance data for all the applications that make up your system, including the applications running on GKE. By instrumenting your application with Stackdriver Trace, you can see detailed performance information for each request, including the time spent in each component of your system, as well as any inter-service HTTP requests. This will allow you to identify which dependent applications might be causing performance issues, so that you can focus on optimizing those services specifically.

QUESTION 5

You manage several production systems that run on Compute Engine in the same Google Cloud Platform (GCP) project. Each system has its own set of dedicated Compute Engine instances. You want to know how much it costs to run each of the systems. What should you do?

- A. In the Google Cloud Platform Console, use the Cost Breakdown section to visualize the costs per system.
- B. Assign all instances a label specific to the system they run. Configure BigQuery billing export and query costs per label.
- C. Enrich all instances with metadata specific to the system they run. Configure Stackdriver Logging to export to BigQuery, and query costs based on the metadata.
- D. Name each virtual machine (VM) after the system it runs. Set up a usage report export to a Cloud Storage bucket. Configure the bucket as a source in BigQuery to query costs based on VM name.

Correct Answer: B



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<https://cloud.google.com/billing/docs/how-to/export-data-bigquery>

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