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QUESTION 1

You are the primary DBA of a Cloud SQL for PostgreSQL database that supports 6 enterprise applications in production. You used Cloud SQL Insights to identify inefficient queries and now need to identify the application that is originating the inefficient queries. You want to follow Google-recommended practices. What should you do?

A. Shut down and restart each application.

B. Write a utility to scan database query logs.

C. Write a utility to scan application logs.

D. Use query tags to add application-centric database monitoring.

Correct Answer: D

https://cloud.google.com/sql/docs/postgres/using-query-insights#filter_by_query_tags

QUESTION 2

You manage a meeting booking application that uses Cloud SQL. During an important launch, the Cloud SQL instance went through a maintenance event that resulted in a downtime of more than 5 minutes and adversely affected your production application. You need to immediately address the maintenance issue to prevent any unplanned events in the future. What should you do?

A. Set your production instance\\'s maintenance window to non-business hours.

B. Migrate the Cloud SQL instance to Cloud Spanner to avoid any future disruptions due to maintenance.

C. Contact Support to understand why your Cloud SQL instance had a downtime of more than 5 minutes.

D. Use Cloud Scheduler to schedule a maintenance window of no longer than 5 minutes.

Correct Answer: A

QUESTION 3

You are starting a large CSV import into a Cloud SQL for MySQL instance that has many open connections. You checked memory and CPU usage, and sufficient resources are available. You want to follow Google-recommended practices to ensure that the import will not time out. What should you do?

A. Close idle connections or restart the instance before beginning the import operation.

B. Increase the amount of memory allocated to your instance.

C. Ensure that the service account has the Storage Admin role.

D. Increase the number of CPUs for the instance to ensure that it can handle the additional import operation.

Correct Answer: A

https://cloud.google.com/sql/docs/mysql/import-export#troubleshooting

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QUESTION 4

Your company uses Bigtable for a user-facing application that displays a low-latency real-time dashboard. You need to recommend the optimal storage type for this read-intensive database. What should you do?

A. Recommend solid-state drives (SSD).

B. Recommend splitting the Bigtable instance into two instances in order to load balance the concurrent reads.

C. Recommend hard disk drives (HDD).

D. Recommend mixed storage types.

Correct Answer: A

if you plan to store extensive historical data for a large number of remote-sensing devices and then use the data to generate daily reports, the cost savings for HDD storage might justify the performance tradeoff. On the other hand, if you plan to use the data to display a real-time dashboard, it probably would not make sense to use HDD storage--reads would be much more frequent in this case, and reads that are not scans are much slower with HDD storage.

QUESTION 5

Your retail organization is preparing for the holiday season. Use of catalog services is increasing, and your DevOps team is supporting the Cloud SQL databases that power a microservices-based application. The DevOps team has added instrumentation through Sqlcommenter. You need to identify the root cause of why certain microservice calls are failing. What should you do?

A. Watch Query Insights for long running queries.

B. Watch the Cloud SQL instance monitor for CPU utilization metrics.

C. Watch the Cloud SQL recommenders for overprovisioned instances.

D. Watch Cloud Trace for application requests that are failing.

Correct Answer: A

Cloud Trace doesn\\'t support Cloud SQL. Eliminate D. Cloud SQL recommenders for overprovisioned instances would tell you about Cloud SQL instances which are too large for their workload. Eliminate C. Monitoring CPU utilization wouldn\\'t tell you why microservice calls are failing. Eliminate B. SQLcommenter integrates with Query Insights. So A is the best answer. https://cloud.google.com/blog/topics/developers-practitioners/introducing-sqlcommenter-open-source-orm-autoinstrumentation-library

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