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Google Professional-Cloud-Developer Certification Exam is designed for professionals who want to demonstrate their skills in developing cloud-based applications using the Google Cloud Platform. Google Certified Professional - Cloud Developer certification validates the skills and knowledge required to develop and deploy applications using Google Cloud technologies, such as App Engine, Cloud Storage, Cloud SQL, and Compute Engine.

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Google Professional-Cloud-Developer exam is a certification exam that is used to validate the skills and knowledge of individuals who want to demonstrate their proficiency in developing and deploying applications on Google Cloud Platform. Professional-Cloud-Developer Exam is designed to test the candidate's ability to design, build, test, and deploy applications on the Google Cloud Platform using the appropriate development tools and technologies.

Google Certified Professional - Cloud Developer Sample Questions (Q87-Q92):

NEW QUESTION # 87

Case study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Company Overview

HipLocal is a community application designed to facilitate communication between people in close proximity. It is used for event planning and organizing sporting events, and for businesses to connect with their local communities. HipLocal launched recently in a few neighborhoods in Dallas and is rapidly growing into a global phenomenon. Its unique style of hyper-local community communication and business outreach is in demand around the world.

Executive Statement

We are the number one local community app; it's time to take our local community services global. Our venture capital investors want to see rapid growth and the same great experience for new local and virtual communities that come online, whether their members are 10 or 10000 miles away from each other.

Solution Concept

HipLocal wants to expand their existing service, with updated functionality, in new regions to better serve their global customers. They want to hire and train a new team to support these regions in their time zones. They will need to ensure that the application scales smoothly and provides clear uptime data.

Existing Technical Environment

HipLocal's environment is a mix of on-premises hardware and infrastructure running in Google Cloud Platform.

The HipLocal team understands their application well, but has limited experience in global scale applications.

Their existing technical environment is as follows:

* Existing APIs run on Compute Engine virtual machine instances hosted in GCP.
* State is stored in a single instance MySQL database in GCP.
* Data is exported to an on-premises Teradata/Vertica data warehouse.
* Data analytics is performed in an on-premises Hadoop environment.
* The application has no logging.
* There are basic indicators of uptime; alerts are frequently fired when the APIs are unresponsive.

Business Requirements

HipLocal's investors want to expand their footprint and support the increase in demand they are seeing. Their requirements are:

* Expand availability of the application to new regions.
* Increase the number of concurrent users that can be supported.
* Ensure a consistent experience for users when they travel to different regions.
* Obtain user activity metrics to better understand how to monetize their product.
* Ensure compliance with regulations in the new regions (for example, GDPR).
* Reduce infrastructure management time and cost.
* Adopt the Google-recommended practices for cloud computing.

Technical Requirements

* The application and backend must provide usage metrics and monitoring.
* APIs require strong authentication and authorization.
* Logging must be increased, and data should be stored in a cloud analytics platform.
* Move to serverless architecture to facilitate elastic scaling.
* Provide authorized access to internal apps in a secure manner.

HipLocal's .net-based auth service fails under intermittent load.

What should they do?

- A. Use Cloud Functions for autoscaling.
- B. Use a dedicated Compute Engine virtual machine instance for the service.
- C. Use a Compute Engine cluster for the service.
- D. Use App Engine for autoscaling.

Answer: B

Explanation:
Explanation/Reference: https://www.qwiklabs.com/focuses/611?parent=catalog

NEW QUESTION # 88
Your company's corporate policy states that there must be a copyright comment at the very beginning of all source files. You want to write a custom step in Cloud Build that is triggered by each source commit. You need the trigger to validate that the source contains a copyright and add one for subsequent steps if not there.
What should you do?

- A. Build a new Docker container that examines the files in /workspace and then checks and adds a copyright for each source file. Changed files are explicitly committed back to the source repository.
- B. Build a new Docker container that examines the files in a Cloud Storage bucket and then checks and adds a copyright for each source file. Changed files are written back to the Cloud Storage bucket.
- C. Build a new Docker container that examines the files in /workspace and then checks and adds a copyright for each source file. Changed files do not need to be committed back to the source repository.
- D. Build a new Docker container that examines the files in a Cloud Storage bucket and then checks and adds a copyright for each source file. Changed files are explicitly committed back to the source repository.

Answer: A

Explanation:
Explanation
https://cloud.google.com/build/docs/configuring-builds/pass-data-between-steps#passing_data_using_workspace To pass data between build steps, store the assets produced by the build step in /workspace and these assets will be available to any subsequent build steps.

NEW QUESTION # 89
You are in the final stage of migrating an on-premises data center to Google Cloud. You are quickly approaching your deadline, and discover that a web API is running on a server slated for decommissioning. You need to recommend a solution to modernize this API while migrating to Google Cloud. The modernized web API must meet the following requirements:
* Autoscales during high traffic periods at the end of each month
* Written in Python 3.x
* Developers must be able to rapidly deploy new versions in response to frequent code changes You want to minimize cost, effort, and operational overhead of this migration. What should you do?

- A. Modernize and deploy the code on App Engine flexible environment.
- B. Modernize and deploy the code on App Engine standard environment.
- C. Ask the development team to re-write the application to run as a Docker container on Google Kubernetes Engine.
- D. Deploy the modernized application to an n1-standard-1 Compute Engine instance.

Answer: B

Explanation:
https://cloud.google.com/appengine/docs/standard

NEW QUESTION # 90
You are planning to migrate a MySQL database to the managed Cloud SQL database for Google Cloud. You have Compute Engine virtual machine instances that will connect with this Cloud SQL instance. You do not want to whitelist IPs for the Compute Engine instances to be able to access Cloud SQL.
What should you do?

- A. Create a CloudSQL instance on one project. Create Compute engine instances in a different project.Create a VPN between these two projects to allow internal access to CloudSQL.
- B. Whitelist a project to access Cloud SQL, and add Compute Engine instances in the whitelisted project.
- C. Create a role in Cloud SQL that allows access to the database from external instances, and assign the Compute Engine instances to that role.
- D. Enable private IP for the Cloud SQL instance.

Answer: D

Explanation:
https://cloud.google.com/sql/docs/mysql/connect-compute-engine#connect-gce-private-ip

NEW QUESTION # 91

You need to configure a Deployment on Google Kubernetes Engine (GKE). You want to include a check that verifies that the containers can connect to the database. If the Pod is failing to connect, you want a script on the container to run to complete a graceful shutdown. How should you configure the Deployment?

- A. Create two jobs: one that checks whether the container can connect to the database, and another that runs the shutdown script if the Pod is failing.
- B. Create the Deployment with a livenessProbe for the container that will fail if the container can't connect to the database. Configure a Prestop lifecycle handler that runs the shutdown script if the container is failing.
- C. Create the Deployment with an initContainer that checks the service availability. Configure a Prestop lifecycle handler that runs the shutdown script if the Pod is failing.
- D. Create the Deployment with a PostStart lifecycle handler that checks the service availability. Configure a PreStop lifecycle handler that runs the shutdown script if the container is failing.

Answer: B

Explanation:
https://cloud.google.com/architecture/best-practices-for-running-cost-effective-kubernetes-applications-on-gke#m

NEW QUESTION # 92

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