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Google Professional-Cloud-Developer certification exam is a highly respected certification in the field of cloud computing. It tests an individual's proficiency in developing applications on the Google Cloud Platform and covers a wide range of topics related to cloud development. To be eligible to take the exam, individuals must have experience in developing applications on the Google Cloud Platform and a strong understanding of cloud computing concepts and software development methodologies. With proper preparation and study, individuals can increase their chances of passing the exam and earning the prestigious Google Professional-Cloud-Developer Certification.

Google Certified Professional - Cloud Developer Sample Questions (Q237-Q242):

NEW QUESTION # 237

You have an application deployed in production. When a new version is deployed, some issues don't arise until the application receives traffic from users in production. You want to reduce both the impact and the number of users affected. Which deployment strategy should you use?

- A. Recreate deployment
- B. Canary deployment
- C. Blue/green deployment
- D. Rolling deployment

Answer: C

Explanation:

Reference: <https://thenewstack.io/deployment-strategies/>

NEW QUESTION # 238

The development teams in your company want to manage resources from their local environments. You have been asked to enable developer access to each team's Google Cloud projects. You want to maximize efficiency while following Google-recommended best practices.

What should you do?

- A. Add the users to their projects, assign the relevant roles to the users, and then provide the users with each relevant Project Number.
- B. Create groups, add the users to their groups, assign the relevant roles to the groups, and then provide the users with each relevant Project Number.
- C. Add the users to their projects, assign the relevant roles to the users, and then provide the users with each relevant Project ID.
- D. Create groups, add the users to their groups, assign the relevant roles to the groups, and then provide the users with each relevant Project ID.

Answer: D

Explanation:

This is the most efficient and secure way to enable developer access to Google Cloud projects.

By creating groups and assigning roles to the groups, you can minimize the administrative overhead of managing user permissions. You can also provide developers with access to the projects they need, while limiting their access to other resources.

NEW QUESTION # 239

Case Study

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 wants to reduce the number of on-call engineers and eliminate manual scaling. Which two services should they choose? (Choose two.)

- A. Use a large Google Compute Engine cluster for deployments.
- B. Use Google Kubernetes Engine for automated deployments.
- **C. Use serverless Google Cloud Functions.**
- D. Use Google App Engine services.
- **E. Use Knative to build and deploy serverless applications.**

Answer: C,E

Explanation:

Explanation/Reference:

NEW QUESTION # 240

Your application is deployed on hundreds of Compute Engine instances in a managed instance group (MIG) in multiple zones. You need to deploy a new instance template to fix a critical vulnerability immediately but must avoid impact to your service. What setting should be made to the MIG after updating the instance template?

- A. Set the Max Surge to 100%.
- B. Set the Maximum Unavailable to 100%.
- C. Set the Update mode to Opportunistic.
- **D. Set the Minimum Wait time to 0 seconds.**

Answer: D

Explanation:

https://cloud.google.com/compute/docs/instance-groups/rolling-out-updates-to-managed-instance-groups#minimum_wait_time

NEW QUESTION # 241

The new version of your containerized application has been tested and is ready to deploy to production on Google Kubernetes Engine. You were not able to fully load-test the new version in pre-production environments, and you need to make sure that it does not have performance problems once deployed. Your deployment must be automated. What should you do?

- A. Deploy the application using kubectl and set the spec.updateStrategy.type to RollingUpdate. Use Cloud Monitoring to look for performance issues, and run the kubectl rollback command if there are any issues.
- **B. Deploy the application via a continuous delivery pipeline using blue/green deployments. Use Cloud Monitoring to look for performance issues, and launch fully when the metrics support it.**
- C. Deploy the application via a continuous delivery pipeline using canary deployments. Use Cloud Monitoring to look for performance issues, and ramp up traffic as the metrics support it.
- D. Use Cloud Load Balancing to slowly ramp up traffic between versions. Use Cloud Monitoring to look for performance issues.

Answer: B

Explanation:

https://cloud.google.com/architecture/implementing-deployment-and-testing-strategies-on-gke#perform_a_bluegreen_deployment

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