[Jul 20, 2022 Verified Professional-Cloud-Developer dumps and 140 unique questions [Q40-Q54

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Professional-Cloud-Developer Dumps for Pass Guaranteed - Pass Professional-Cloud-Developer Exam 2022

This certification exam measures your ability to perform various tasks required for the successful functioning of different processes. The details of its topics are enumerated below: **Designing Highly Available, Reliable, and Scalable Cloud-Native Apps** - Application Modernization: It covers the learners' skills in using managed services, designing horizontally state-less scalable services, refactoring the monolith to micro-services, and understanding the Google-recommended practices and documentation.- Manage Application Data: The considerations for this subdomain include data volume, structured versus unstructured data, strong versus eventual consistency, and data access frequency within Cloud Storage.- Design Secure Applications: This topic covers the details, which include security mechanisms securing and protecting services and resources as well as app manifests & binaries. It also involves the skills in implementing the appropriate prerequisites for applicable applications. You should know about rotating & storing application keys & secrets, validating processes of the Google service, service-to-service communications, and IAM roles for groups/service/user accounts. The subtopic also covers your knowledge of how to run the services that have the least privileged access, data retention prerequisites, and certificate-based validation.- Design High Performing APIs and Applications: The considerations for this subject area include Microservices, scaling velocity tradeoffs/characteristics of IaaS vs. CaaS vs. PaaS, Geographic distribution of Google Cloud services, and user session management. It also covers the domains, such as caching solutions,

securing & deploying API services, Google-recommended documentation & practices, and refined shutdown on the platform termination. The learners should also be able to explain the key structure of high-write apps with the use of Cloud Storage, Cloud SQL, Cloud Spanner, and Cloud Bigtable. **NEW QUESTION 40**

Laura is performing a visual inspection of an embedded battery. What kinds of cosmetic issues should she look for? (Choose two.)
* UPC Code
* Apple product serial number
* IATA complice label
* Scratches
* QR Code
* Apple logo
* Dents or dot imprints

Explanation/Reference: https://docplayer.net/50514766-Embedded-battery-safety.html

NEW QUESTION 41

Your development team has been asked to refactor an existing monolithic application into a set of composable microservices. Which design aspects should you implement for the new application? (Choose two.)
* Develop the microservice code in the same programming language used by the microservice caller.
* Create an API contract agreement between the microservice implementation and microservice caller.
* Require asynchronous communications between all microservice implementations and microservice callers.
* Ensure that sufficient instances of the microservice are running to accommodate the performance requirements.
* Implement a versioning scheme to permit future changes that could be incompatible with the current interface.

NEW QUESTION 42

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.

In order to meet their business requirements, how should HipLocal store their application state?
* Use local SSDs to store state.
* Put a memcache layer in front of MySQL.
* Move the state storage to Cloud Spanner.
* Replace the MySQL instance with Cloud SQL.

NEW QUESTION 43

You want to view the memory usage of your application deployed on Compute Engine. What should you do?
* Install the Stackdriver Client Library.
* Install the Stackdriver Monitoring Agent.
* Use the Stackdriver Metrics Explorer.
* Use the Google Cloud Platform Console.

NEW QUESTION 44

Your company has a data warehouse that keeps your application information in BigQuery. The BigQuery data warehouse keeps 2 PBs of user data. Recently, your company expanded your user base to include EU users and needs to comply with these requirements:

Your company must be able to delete all user account information upon user request.

All EU user data must be stored in a single region specifically for EU users.

Which two actions should you take? (Choose two.)
* Use BigQuery federated queries to query data from Cloud Storage.
* Create a dataset in the EU region that will keep information about EU users only.
* Create a Cloud Storage bucket in the EU region to store information for EU users only.
* Re-upload your data using to a Cloud Dataflow pipeline by filtering your user records out.
* Use DML statements in BigQuery to update/delete user records based on their requests.

Reference:

https://cloud.google.com/solutions/bigquery-data-warehouse

NEW QUESTION 45

You want to re-architect a monolithic application so that it follows a microservices model. You want to accomplish this efficiently while minimizing the impact of this change to the business.

Which approach should you take?
* Deploy the application to Compute Engine and turn on autoscaling.
* Replace the application’s features with appropriate microservices in phases.
* Refactor the monolithic application with appropriate microservices in a single effort and deploy it.
* Build a new application with the appropriate microservices separate from the monolith and replace it when it is complete.

Reference:

https://cloud.google.com/solutions/migrating-a-monolithic-app-to-microservices-gke

NEW QUESTION 46

Your code is running on Cloud Functions in projectA . It is supposed to write an object in a Cloud Storage bucket owned by project B.

However, the write call is failing with the error “403 Forbidden”.

What should you do to correct the problem?
* Grant your user account the roles/storage.objectCreator role for the Cloud Storage bucket.
* Grant your user account the roles/iam.serviceAccountUser role for the service-PROJECTA@gcf-adminrobot.

iam.gserviceaccount.com service account.
* Grant the service-PROJECTA@gcf-admin-robot.iam.gserviceaccount.com service account the roles/ storage.objectCreator role for the Cloud Storage bucket.
* Enable the Cloud Storage API in project B.

NEW QUESTION 47

You configured your Compute Engine instance group to scale automatically according to overall CPU usage.

However, your application’s response latency increases sharply before the cluster has finished adding up instances. You want to provide a more consistent latency experience for your end users by changing the configuration of the instance group autoscaler.

Which two configuration changes should you make? (Choose two.)
* Add the label “AUTOSCALE” to the instance group template.
* Decrease the cool-down period for instances added to the group.
* Increase the target CPU usage for the instance group autoscaler.
* Decrease the target CPU usage for the instance group autoscaler.
* Remove the health-check for individual VMs in the instance group.

Explanation

NEW QUESTION 48

Your website is deployed on Compute Engine. Your marketing team wants to test conversion rates between 3 different website

designs.

Which approach should you use?
* Deploy the website on App Engine and use traffic splitting.
* Deploy the website on App Engine as three separate services.
* Deploy the website on Cloud Functions and use traffic splitting.
* Deploy the website on Cloud Functions as three separate functions.

NEW QUESTION 49

Please refer to the following information to answer the questions on the right.

Hannah recently picked up her iMac after a repair. The sound from the speakers was distorted and unclear and a technician determined that a repair would resolve the issue.

Once Hannah returned home with the iMac, the sound issue occurred again.

Hannah has returned. She is angry and she is cursing at the technician.

From the following, which are part of the 5-step conflict resolution model? (Choose two.)
* “You are right, Hannah. I can see the repair history says you picked up the computer this morning.”
* “I understand your frustrations, Hannah. I would feel the same way if my computer was having the same issue after a repair. I am here to help.”
* “I feel sorry for you. You had to drive all the way back here.”
* “Are you sure your children didn’t do something to it?”
* “Is this really the same issue? Might it be a different issue?”

NEW QUESTION 50

You are designing a schema for a table that will be moved from MySQL to Cloud Bigtable. The MySQL table is as follows:

```
AccountActivity
(
Account_id int,
Event_timestamp datetime,
Transaction_type string,
Amount numeric(18, 4)
) primary key (Account_id, Event_timestamp)
```


How should you design a row key for Cloud Bigtable for this table?
* Set Account_id as a key.
* Set Account_id_Event_timestamp as a key.
* Set Event_timestamp_Account_id as a key.
* Set Event_timestamp as a key.

NEW QUESTION 51

When would a technician need to use a positive ‘no’ with a customer? (Choose three.)
* The device is out of warranty.

* The technician does not feel like helping the customer.
* The customer wants to purchase a new device.
* The customer is misinformed about service options.
* The device is an obsolete device that we no longer service.
* The device is eligible for repair.
* Apple introduces new product.

NEW QUESTION 52

Case Study

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* 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.)
* Use Google App Engine services.
* Use serverless Google Cloud Functions.
* Use Knative to build and deploy serverless applications.
* Use Google Kubernetes Engine for automated deployments.
* Use a large Google Compute Engine cluster for deployments.

Explanation

NEW QUESTION 53

You are planning to deploy your application in a Google Kubernetes Engine (GKE) cluster The application exposes an HTTP-based health check at /healthz. You want to use this health check endpoint to determine whether traffic should be routed to the pod by the load balancer.

Which code snippet should you include in your Pod configuration?

A.
```
livenessProbe:
  httpGet:
    path: /healthz
    port: 80
```

B.
```
readinessProbe:
  httpGet:
    path: /healthz
    port: 80
```

C.
```
loadbalancerHealthCheck:
  httpGet:
    path: /healthz
    port: 80
```

D.
```
healthCheck:
  httpGet:
    path: /healthz
    port: 80
```


* Option A
* Option B
* Option C
* Option D

For the GKE ingress controller to use your readinessProbes as health checks, the Pods for an Ingress must exist at the time of Ingress creation. If your replicas are scaled to 0, the default health check will apply.

NEW QUESTION 54

Your website is deployed on Compute Engine. Your marketing team wants to test conversion rates between 3 different website designs.

Which approach should you use?

* Deploy the website on App Engine and use traffic splitting.
* Deploy the website on App Engine as three separate services.
* Deploy the website on Cloud Functions and use traffic splitting.
* Deploy the website on Cloud Functions as three separate functions.

Explanation/Reference: https://cloud.google.com/appengine/docs/standard/python/splitting-traffic

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The Professional Cloud Developer certificate validates the skills of the interested candidates in building highly available and scalable applications with the use of the tools and practices recommended by Google. The potential applicants for this certification must demonstrate practical experience with developer tools, Cloud-native applications, next-gen databases, and managed services. They also have the expertise in at least one programming language and can develop meaningful logs and metrics to trace and debug code. Those individuals pursuing this option must pass one qualifying exam.

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