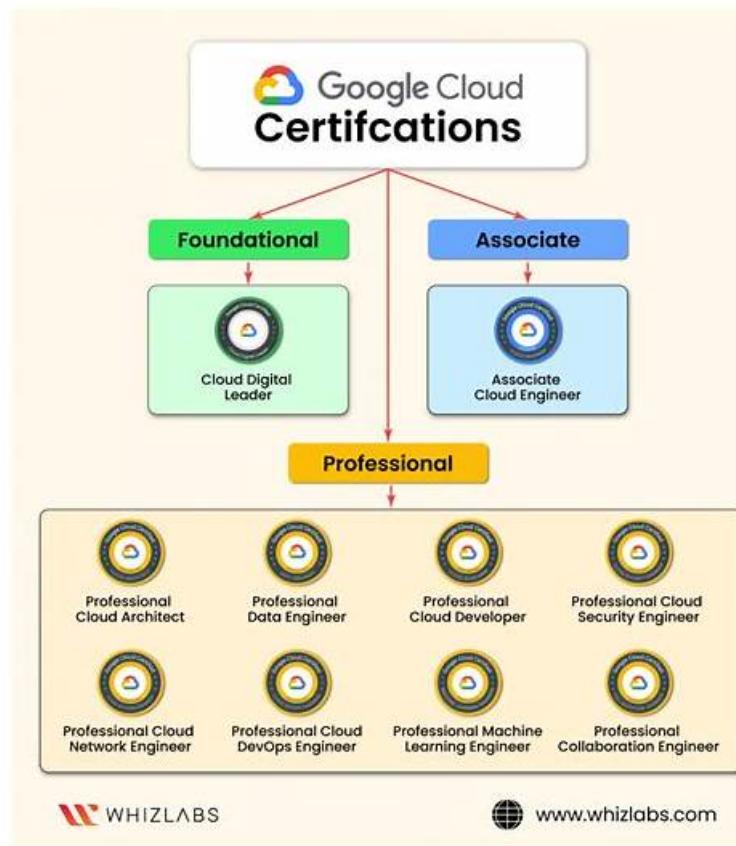


Professional-Cloud-Architect Well Prep & Exam Topics

Professional-Cloud-Architect Pdf



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Google Professional-Cloud-Architect Exam is a certification program designed for IT professionals who have experience in designing and managing cloud solutions using Google Cloud Platform (GCP). Google Certified Professional - Cloud Architect (GCP) certification validates the knowledge and skills required to design, develop, and manage cloud solutions using GCP technologies. It is intended for individuals who are looking to advance their careers in cloud architecture and demonstrate their expertise in Google Cloud technologies.

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Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q233-Q238):

NEW QUESTION # 233

A lead engineer wrote a custom tool that deploys virtual machines in the legacy data center. He wants to migrate the custom tool to the new cloud environment. You want to advocate for the adoption of Google Cloud Deployment Manager. What are two business risks of migrating to Cloud Deployment Manager?

Choose 2 answers

- A. Cloud Deployment Manager can be used to permanently delete cloud resources.
- B. Cloud Deployment Manager APIs could be deprecated in the future.
- C. Cloud Deployment Manager uses Python.
- D. Cloud Deployment Manager only supports automation of Google Cloud resources.
- E. Cloud Deployment Manager is unfamiliar to the company's engineers.
- F. Cloud Deployment Manager requires a Google APIs service account to run.

Answer: D,E

Explanation:

<https://cloud.google.com/deployment-manager/docs/deployments/deleting-deployments>

NEW QUESTION # 234

One of the developers on your team deployed their application in Google Container Engine with the Dockerfile below. They report that their application deployments are taking too long.

□ You want to optimize this Dockerfile for faster deployment times without adversely affecting the app's functionality. Which two actions should you take? Choose 2 answers

- A. Use larger machine types for your Google Container Engine node pools.
- B. Use a slimmed-down base image like Alpine linux.
- C. Remove dependencies from requirements.txt.
- D. Remove Python after running pip.
- E. Copy the source after the package dependencies (Python and pip) are installed.

Answer: D,E

NEW QUESTION # 235

For this question, refer to the JencoMart case study.

The JencoMart security team requires that all Google Cloud Platform infrastructure is deployed using a least privilege model with separation of duties for administration between production and development resources. What Google domain and project structure should you recommend?

- A. Create two G Suite accounts to manage users: one for development/test/staging and one for production. Each account should contain one project for every application.
- B. Create a single G Suite account to manage users with each stage of each application in its own project.
- C. Create a single G Suite account to manage users with one project for the development/test/staging environment and one project for the production environment.
- D. Create two G Suite accounts to manage users: one with a single project for all development applications and one with a single project for all production applications.

Answer: C

Explanation:

Note: The principle of least privilege and separation of duties are concepts that, although semantically different, are intrinsically related from the standpoint of security. The intent behind both is to prevent people from having higher privilege levels than they

actually need

* Principle of Least Privilege: Users should only have the least amount of privileges required to perform their job and no more. This reduces authorization exploitation by limiting access to resources such as targets, jobs, or monitoring templates for which they are not authorized.

* Separation of Duties: Beyond limiting user privilege level, you also limit user duties, or the specific jobs they can perform. No user should be given responsibility for more than one related function. This limits the ability of a user to perform a malicious action and then cover up that action.

References:

<https://cloud.google.com/kms/docs/separation-of-duties>

Topic 4, Dress4Win case study

Company Overview

Dress4win is a web-based company that helps their users organize and manage their personal wardrobe using a website and mobile application. The company also cultivates an active social network that connects their users with designers and retailers. They monetize their services through advertising, e-commerce, referrals, and a freemium app model.

Company Background

Dress4win's application has grown from a few servers in the founder's garage to several hundred servers and appliances in a colocated data center. However, the capacity of their infrastructure is now insufficient for the application's rapid growth. Because of this growth and the company's desire to innovate faster, Dress4win is committing to a full migration to a public cloud.

Solution Concept

For the first phase of their migration to the cloud, Dress4win is considering moving their development and test environments. They are also considering building a disaster recovery site, because their current infrastructure is at a single location. They are not sure which components of their architecture they can migrate as is and which components they need to change before migrating them.

Existing Technical Environment

The Dress4win application is served out of a single data center location.

* Databases:

* MySQL - user data, inventory, static data

* Redis - metadata, social graph, caching

* Application servers:

* Tomcat - Java micro-services

* Nginx - static content

* Apache Beam - Batch processing

* Storage appliances:

* iSCSI for VM hosts

* Fiber channel SAN - MySQL databases

* NAS - image storage, logs, backups

* Apache Hadoop/Spark servers:

* Data analysis

* Real-time trending calculations

* MQ servers:

* Messaging

* Social notifications

* Events

* Miscellaneous servers:

* Jenkins, monitoring, bastion hosts, security scanners

Business Requirements

* Build a reliable and reproducible environment with scaled parity of production.

* Improve security by defining and adhering to a set of security and Identity and Access Management (IAM) best practices for cloud.

* Improve business agility and speed of innovation through rapid provisioning of new resources.

* Analyze and optimize architecture for performance in the cloud.

* Migrate fully to the cloud if all other requirements are met.

Technical Requirements

* Evaluate and choose an automation framework for provisioning resources in cloud.

* Support failover of the production environment to cloud during an emergency.

* Identify production services that can migrate to cloud to save capacity.

* Use managed services whenever possible.

* Encrypt data on the wire and at rest.

* Support multiple VPN connections between the production data center and cloud environment.

CEO Statement

Our investors are concerned about our ability to scale and contain costs with our current infrastructure. They are also concerned that a new competitor could use a public cloud platform to offset their up-front investment and freeing them to focus on developing better

features.

CTO Statement

We have invested heavily in the current infrastructure, but much of the equipment is approaching the end of its useful life. We are consistently waiting weeks for new gear to be racked before we can start new projects. Our traffic patterns are highest in the mornings and weekend evenings; during other times, 80% of our capacity is sitting idle.

CFO Statement

Our capital expenditure is now exceeding our quarterly projections. Migrating to the cloud will likely cause an initial increase in spending, but we expect to fully transition before our next hardware refresh cycle. Our total cost of ownership (TCO) analysis over the next 5 years puts a cloud strategy between 30 to 50% lower than our current model.

NEW QUESTION # 236

You are deploying a PHP App Engine Standard service with SQL as the backend. You want to minimize the number of queries to the database.

What should you do?

- A. Set the memcache service level to dedicated. Create a cron task that runs every minute to populate the cache with keys containing query results.
- B. Set the memcache service level to dedicated. Create a key from the hash of the query, and return database values from memcache before issuing a query to Cloud SQL.
- C. Set the memcache service level to shared. Create a key called "cached-queries", and return database values from the key before using a query to Cloud SQL.
- D. Set the memcache service level to shared. Create a cron task that runs every minute to save all expected queries to a key called "cached-queries".

Answer: B

NEW QUESTION # 237

You need to develop procedures to test a disaster plan for a mission-critical application. You want to use Google-recommended practices and native capabilities within GCP.

What should you do?

- A. Use Deployment Manager to automate service provisioning. Use Activity Logs to monitor and debug your tests.
- B. Use Deployment Manager to automate provisioning. Use Stackdriver to monitor and debug your tests.
- C. Use gcloud scripts to automate service provisioning. Use Activity Logs monitor and debug your tests.
- D. Use automated scripts to automate service provisioning. Use Activity Logs monitor and debug your tests.

Answer: B

Explanation:

<https://cloud.google.com/solutions/dr-scenarios-planning-guide>

NEW QUESTION # 238

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