Google

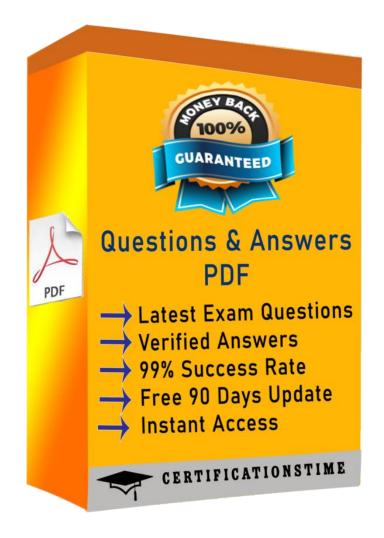# Exam Questions Professional-Cloud-Architect

Google Certified Professional - Cloud Architect

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QUESTION 1

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

Correct Answer: C,E

Explanation/Reference:

The speed of deployment can be changed by limiting the size of the uploaded app, limiting the complexity of the build necessary in the Dockerfile, if present, and by ensuring a fast and reliable internet connection. Note: Alpine Linux is built around musl libc and busybox. This makes it smaller and more resource efficient than traditional GNU/Linux distributions. A container requires no more than 8 MB and a minimal installation to disk requires around 130 MB of storage. Not only do you get a fully-fledged Linux environment but a large selection of packages from the repository. References:
https://groups.google.com/forum/#!topic/google-appengine/hZMEkmmObDU

https://www.alpinelinux.org/about/

QUESTION 2

Your application needs to process credit card transactions. You want the smallest scope of Payment Card Industry (PCI) compliance without compromising the ability to analyze transactional data and trends relating to which payment methods are used. How should you design your architecture?

A. Create a tokenizer service and store only tokenized data.
B. Create separate projects that only process credit card data.
C. Create separate subnetworks and isolate the components that process credit card data.
D. Streamline the audit discovery phase by labeling all of the virtual machines (VMs) that process PCI data.
E. Enable Logging export to Google BigQuery and use ACLs and views to scope the data shared with the auditor.

Correct Answer: A

Explanation/Reference:
Reference:

https://www.sans.org/reading-room/whitepapers/compliance/ways-reduce-pci-dss-auditscopetokenizing-cardholder-data-33194

QUESTION 3

As part of implementing their disaster recovery plan, your company is trying to replicate their production MySQL database from their private data center to their GCP project using a Google Cloud VPN connection. They are experiencing latency issues and a small amount of packet loss that is disrupting the replication. What should they do?

A. Configure their replication to use UDP.
B. Configure a Google Cloud Dedicated Interconnect.
C. Restore their database daily using Google Cloud SQL.
D. Add additional VPN connections and load balance them.
E. Send the replicated transaction to Google Cloud Pub/Sub.

Correct Answer: B

QUESTION 4

You need to upload files from your on-premises environment to Cloud Storage. You want the files to
be encrypted on Cloud Storage using customer-supplied encryption keys. What should you do?
A. Supply the encryption key in a .boto configuration file. Use gsutil to upload the files.
B. Supply the encryption key using gcloud config. Use gsutil to upload the files to that bucket.
C. Use gsutil to upload the files, and use the flag --encryption-key to supply the encryption key.
D. Use gsutil to create a bucket, and use the flag --encryption-key to supply the encryption key. Use
gsutil to upload the files to that bucket.

Correct Answer: D

QUESTION 5

You are using Cloud CDN to deliver static HTTP(S) website content hosted on a Compute Engine instance group. You want to improve the cache hit ratio.
What should you do?

A. Customize the cache keys to omit the protocol from the key
B. Shorten the expiration time of the cached objects.
C. Make sure the HTTP(S) header "Cache-Region" points to the closest region of your users.
D. Replicate the static content in a Cloud Storage bucket. Point CloudCDN toward a load balancer
onthatbucket.

Correct Answer: A

Explanation/Reference:

Reference https://cloud.google.com/cdn/docs/bestpractices#using_custom_cache_keys_to_improve_cache_hit_ratio

QUESTION 6

For this question, refer to the JencoMart case study. JencoMart has built a version of their application on Google Cloud Platform that serves traffic to Asi a. You want to measure success against their business and technical goals. Which metrics should you track?
A. Error rates for requests from Asia
B. Latency difference between US and Asia
C. Total visits, error rates, and latency from Asia
D. Total visits and average latency for users in Asia
E. The number of character sets present in the database

Correct Answer: D

Explanation/Reference:

From scenario:
Business Requirements include: Expand services into Asia
Technical Requirements include: Decrease latency in Asia

QUESTION 7

You want to automate the creation of a managed instance group and a startup script to install the OS package dependencies. You want to minimize the startup time for VMs in the instance group. What should you do?

A. Use Terraform to create the managed instance group and a startup script to install the OS package dependencies.
B. Create a custom VM image with all OS package dependencies. Use Deployment Manager to create the managed instance group with the VM image.
C. Use Puppet to create the managed instance group and install the OS package dependencies.
D. Use Deployment Manager to create the managed instance group and Ansible to install the OS package dependencies.

Correct Answer: D

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