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GCP-CA

ExamName: Cloud Architect

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Questions & Answers Sample PDF

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Question 1. (Single Select)

For this question, refer to the Mountkirk Games case study.

Mountkirk Games wants to set up a continuous delivery pipeline. Their architecture includes many small services that they want to be able to update and roll back quickly. Mountkirk Games has the following requirements:

- Services are deployed redundantly across multiple regions in the US and Europe.
- Only frontend services are exposed on the public internet.
- They can provide a single frontend IP for their fleet of services.
- Deployment artifacts are immutable. Which set of products should they use?

A: Google Cloud Storage, Google Cloud Dataflow, Google Compute Engine

B: Google Cloud Storage, Google App Engine, Google Network Load Balancer

C: Google Kubernetes Registry, Google Container Engine, Google HTTP(S) Load Balancer

D: Google Cloud Functions, Google Cloud Pub/Sub, Google Cloud Deployment Manager

Answer: C

Question 2. (Multi Select)

For this question, refer to the JencoMart case study

A few days after JencoMart migrates the user credentials database to Google Cloud Platform and shuts down the old server, the new database server stops responding to SSH connections. It is still serving database requests to the application servers correctly. What three steps should you take to diagnose the problem? Choose 3 answers

A: Delete the virtual machine (VM) and disks and create a new one.

B: Delete the instance, attach the disk to a new VM, and investigate.

C: Take a snapshot of the disk and connect to a new machine to investigate.

D: Check inbound firewall rules for the network the machine is connected to.

E: Connect the machine to another network with very simple firewall rules and investigate.

F: Print the Serial Console output for the instance for troubleshooting, activate the interactive console, and investigate.

Answer: C, D, F

Explanation:

<https://cloud.google.com/compute/docs/troubleshooting/troubleshooting-ssh>

D: Handling "Unable to connect on port 22" error message Possible causes include:

There is no firewall rule allowing SSH access on the port. SSH access on port 22 is enabled on all Compute Engine instances by default. If you have disabled access, SSH from the Browser will not work. If you run sshd on a port other than 22, you need to enable the access to that port with a custom firewall rule. The firewall rule allowing SSH access is enabled, but is not configured to allow connections from GCP Console services. Source IP addresses for browser-based SSH sessions are dynamically allocated by GCP Console and can vary from session to session.

References: <https://cloud.google.com/compute/docs/ssh-in-browser>

<https://cloud.google.com/compute/docs/ssh-in-browser>

Question 3. (Single Select)

For this question refer to the TerramEarth case study.

Which of TerramEarth's legacy enterprise processes will experience significant change as a result of increased Google Cloud Platform adoption.

A: Opex/capex allocation, LAN changes, capacity planning

B: Capacity planning, TCO calculations, opex/capex allocation

C: Capacity planning, utilization measurement, data center expansion

D: Data Center expansion, TCO calculations, utilization measurement

Answer: B

Explanation:

Capacity planning, TCO calculations, opex/capex allocation From the case study, it can conclude that Management (CXO) all concern rapid provision of resources (infrastructure) for growing as well as cost

management, such as Cost optimization in Infrastructure, trade up front capital expenditures (Capex) for ongoing operating expenditures (Opex), and Total cost of ownership (TCO)

Question 4. (Single Select)

For this question, refer to the TerramEarth case study.

To speed up data retrieval, more vehicles will be upgraded to cellular connections and be able to transmit data to the ETL process. The current FTP process is error-prone and restarts the data transfer from the start of the file when connections fail, which happens often. You want to improve the reliability of the solution and minimize data transfer time on the cellular connections. What should you do?

A: Use one Google Container Engine cluster of FTP server

B: Save the data to a Multi-Regional bucket

C: Run the ETL process using data in the bucket.

D: Use multiple Google Container Engine clusters running FTP servers located in different region

E: Save the data to Multi-Regional buckets in us, eu, and asi

F: Run the ETL process using the data in the bucket.

G: Directly transfer the files to different Google Cloud Multi-Regional Storage bucket locations in us, eu, and asia using Google APIs over HTTP(S). Run the ETL process using the data in the bucket.

H: Directly transfer the files to a different Google Cloud Regional Storage bucket location in us, eu, and asia using Google APIs over HTTP(S). Run the ETL process to retrieve the data from each Regional bucket.

Answer: D

Explanation:

<https://cloud.google.com/storage/docs/locations>

Question 5. (Single Select)

For this question, refer to the TerramEarth case study.

The TerramEarth development team wants to create an API to meet the company's business requirements. You want the development team to focus their development effort on business value versus creating a

custom framework. Which method should they use?

A: Use Google App Engine with Google Cloud Endpoint

B: Focus on an API for dealers and partners.

C: Use Google App Engine with a JAX-RS Jersey Java-based framework

D: Focus on an API for the public.

E: Use Google App Engine with the Swagger (open API Specification) framework

F: Focus on an API for the public.

G: Use Google Container Engine with a Django Python container

H: Focus on an API for the public.

I: Use Google Container Engine with a Tomcat container with the Swagger (Open API Specification) framework

J: Focus on an API for dealers and partners.

Answer: A

Explanation:

[https://cloud.google.com/endpoints/docs/openapi/about-cloud-](https://cloud.google.com/endpoints/docs/openapi/about-cloud-endpoints?hl=en_US&_ga=2.21787131.-1712523161.1522785064)

[endpoints?hl=en_US&_ga=2.21787131.-1712523161.1522785064](https://cloud.google.com/endpoints/docs/openapi/about-cloud-endpoints?hl=en_US&_ga=2.21787131.-1712523161.1522785064)

<https://cloud.google.com/endpoints/docs/openapi/architecture-overview>

<https://cloud.google.com/storage/docs/gsutil/commands/test>

Develop, deploy, protect and monitor your APIs with Google Cloud Endpoints. Using an Open API Specification or one of our API frameworks, Cloud Endpoints gives you the tools you need for every phase of API development.

From scenario: Business Requirements

Decrease unplanned vehicle downtime to less than 1 week, without increasing the cost of carrying surplus inventory

Support the dealer network with more data on how their customers use their equipment to better position new products and services

Have the ability to partner with different companies – especially with seed and fertilizer suppliers in the fast-growing agricultural business – to create compelling joint offerings for their customers.

Reference: <https://cloud.google.com/certification/guides/cloud-architect/casestudy-terramearth>

Need more info? Check the link below:

<https://pass2certify.com/exam/gcp-ca>

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