Google Cloud Certified Professional Cloud Developer Exam Questions

Q 1. A client of yours has asked you for advice because he is looking for a quick and convenient solution for adding functionalities to an Application.
Whenever a new customer is created in the Firebase database, he wants to perform a series of welcome activities and a series of follow-up actions, regardless of the specific function that recorded the new customer record.
Which of the following solutions will you suggest (choose 1)?

A. Compute Engine and Managed Instances
B. App Engine Flexible Environment
C. App Engine Standard Environment
D. Cloud Functions
E. Cloud Run (fully managed)

Correct Answer: D

Q 2. A team of mobile developers is developing a new application. It will require synchronizing data between mobile devices and a backend database. Which database service would you recommend?

A. Cloud SQL
B. BigQuery
C. Firestore
D. Spanner
E. Bigtable

Correct Answer: C

Q 3. You are migrating a series of applications to Google Cloud Platform with a lift and shift methodology, using Compute Engine. Applications must be scalable, so Load Balancer and instance groups are being configured.
Some applications manage session data in memory.
Which of the following configurations do you choose to allow apps to work properly?

A. HTTP(S) load balancer with Session affinity
B. HTTP(S) load balancer with WebSocket proxy support
C. QUIC protocol support for HTTPS Load Balancing
D. Network Load Balancing
E. SSL Proxy con Health Checks

Correct Answer: A

Q 4. You work in an international Company based in North America and your boss told you that you have to plan the GDPR compliance for EUROPE.
Which of the following elements you have to take care of?

A. Create an updated inventory of personal data that you handle.
B. Let the common data to be public, if the Customer doesn't advice against
C. Use California Consumer Protection Act (CCPA) rules
D. Review your current controls, policies, and processes for managing and protecting data

Correct answers: A, D

Q 5. You are responsible for planning the migration to GCP of an important application that works with Oracle Database.
A horizontally scalable and globally functioning SQL database is required.
Which service is better to use and which type of schema migration is recommended?

A. Cloud SQL with no schema migration
B. Cloud SQL with sequential primary keys migration
C. Cloud Spanner with no schema migration
D. Cloud Spanner with sequential primary keys migration

Correct Answer: D

Q 6. With Cloud Storage, you may have different classes and it is possible to pass from one class to another.
But some transitions are not allowed.
Which one of the following is not possible?

A. Regional to nearline
B. Multiregional to coldline
C. Regional to multiregional
D. Nearline to coldline

Correct Answer: C

Q 7. You are looking for a SQL system to integrate and query both historical and production data.
The data must be organized in complex structures. In particular, it is necessary to store orders and invoices in a denormalized and complete manner with the header and detail within the same structure.
Which of the following products do you choose?

A. Cloud Datastore
B. Cloud Spanner

C. Cloud Bigtable
D. BigQuery
E. Cloud SQL

Correct Answer: D

Q 8. You are the leader of a development group that is migrating some applications to the Cloud and who has asked you how to set up a local work environment.
In the company they need to use specific development tools that are installed on the Clients.
Which of these tips would you provide?

A. Develop locally by making remote calls to services with credentials within the code
B. Develop remotely with the setup of a VM with Compute Engine and a Development Disk Image
C. Use Cloud Shell
D. Install Cloud SDK and use Service Accounts

Correct Answer: D

Q 9. You are the leader of a development group; you want to start using Continuous Integration and Deployment Techniques and you care to organize procedure in the best way.
In your company you are not allowed to publish code in public or not internally certified Sites.
Where will the code developed by your team be stored and shared?

A. Cloud Storage with versioned Objects
B. Github
C. Cloud Source Repository
D. AppEngine and Blue green Integration

Correct Answer: C

Q 10. You are the leader of a development group; you want to start using Continuous Integration and Deployment Techniques and you care to organize procedure in the best way.

In your company the new trend is to deploy apps and services within containers. The idea is to use Kubernetes.

You want to start the deployment as soon as new Source is committed.

Which product is the best suitable one for creating Docker images from code?

A. Cloud Build
B. Cloud Code
C. Cloud Tasks
D. Cloud Repositories
E. Cloud Run

Correct answer: A

Q 11. The management asked you, as project leader of the development, to prepare a plan with the organizational proposals for the migration of corporate apps to the cloud, both as development projects and as an operational strategy.

What do you propose for the new organization of development?

A. Create small groups with scrum master
B. No changes: keep on consolidated methods
C. Decentralize development and use offshore development
D. Maintain the current organization and modernize the deployment

Correct Answer: A

Q 12. You have this SQL Statement in Bigquery:
SELECT ANY_VALUE(fruit) as any_value
FROM UNNEST(["apple", "banana", "pear"]) as fruit;
What is the result of this query?

A. a table with 3 rows
B. Apple
C. Banana
D. Pear
E. one of the values, randomly

Correct Answer: E

Q 13. You set up an application to be deployed in a Kubernetes Cluster with GKE. Your app uses various Cloud services, including Cloud Spanner and Cloud Pub / Sub and you are requested to find an optimized way to run the system.
What is the best way to securely authorize all operations?

A. Write the login credentials of a user enabled to those Services in the Deployment manifest file in YAML format
B. Associate a specific service account with the configuration of the specific node pool (NodeConfig)
C. Create a service account and use the corresponding key with a K8s secret
D. Write the credentials in the source repository or inside the container image

Correct Answer C

Q 14. You have an application that examines the written requests of a Customer Care in order to prepare examples of ready-made answers in the operator assistance system.

The problem is that sometimes within the dialogues confidential information is transcribed that should not be disclosed.

What is the most easy and immediate GCP technique to adopt in the program that processes these texts?

A. Use Cloud Data Loss Prevention
B. Use Dialogflow
C. Create a Python app with a list of the sensitive data/words to be detected
D. Use Cloud Natural Language API

Correct Answer A

Q 15. You are going to deploy a set of applications in GKE.

Which of the following choices do you need to make to be sure that the application will not have Single Point of failures of any kind and will be scalable?

Choose 2 options among the following ones?

A. Create a cluster with a default-pool with cluster autoscaler
B. Create a single-zone cluster
C. Create a cluster with a default-pool with a default configuration
D. Create a regional cluster

Correct Answer A, D
In order to avoid Single Point of failures of any kind, you have to have

- workers nodes with auto-healing and auto-scaling
  - Option A
- a backup master node (regional cluster).
  - Option D

Q 16. Your team set up the standard VM configuration for a group of applications and prepared a template.
Everything is working just fine.
Now the traffic is increasing and you want everything to be more scalable, high available and secure.
What is the very first action to take?

A. For next VM you put the –scalable parameter in the template
B. Set up a Load Balancer
C. Take a snapshot of the boot disk
D. Set up a managed instance group

Correct Answer: D

Q 17. You want to have more control over your Cloud GCP VMs. In particular, you want to optimize performance and find the optimal configuration so that your applications are always blazing fast and available.
You are looking for detailed Disk and Memory metrics and the statistics that you usually collect with the "collectd" Linux command.
Which function can you activate and how?

A. Stackdriver Monitoring agent
B. Cloud Armor
C. Nothing: GCP Console alone supply anything
D. You must use a third party tool to have an advanced monitor

Correct Answers: A

**Q 18. Your team has deployed some applications in GKE.
They asked you how they can view a detailed list of the containers
with a few commands.
Which is the right statement to use?**

A. gcloud container images describe
B. gcloud container images list
C. kubectl container list images
D. kubectl container list images –detail

Correct Answer: A

**Q 19. You need to migrate a Python app to GCP. The main problem
is that the app may have sudden traffic bursts and you have to
scale very quickly.
The main requirements for the app are therefore performance and
availability.
Given these requirements, which platform do you choose?**

A. Compute Engine with Managed instances group
B. App Engine Standard with automatic scaling
C. App Engine Flex with Automatic scaling
D. Cloud Functions

Correct Answer: B

Q 20. You have an application that periodically needs to fetch data online and then upload it to BigQuery and Cloud Storage.
You have prepared a bash script to complete the operation.
What do you have to do in order to to authorize the procedure in an automated, simple and scalable way in the VM of the managed instance group on which it is installed?

A. Create the virtual machine with an image or script that provides the necessary roles
B. Set up a service account with the correct privileges and create the instance template of the virtual machine with this service account
C. Write all the proper and needed credentials in the code
D. Create a procedure in App Engine and translate the script in code in order to load the data

Correct Answer B

Q 21. You have an app in App Engine Standard Edition that needs to use Cloud SQL.
Which, among the following, is the best method to authorize all operations safely?

A. Configure the service account
B. Grant all authorizations in the app.yaml file
C. Use JWT
D. Grant all authorizations in the index.yaml file
E. Store the service account key in code

Correct Answer A

Q 22. What is a columnar Database and which is the GCP Solution?

A. A SQL Database organized in columns instead of rows. Cloud SQL may act as a columnar Database
B. noSQL Database: Cloud Datastore

C. A BigData Solution: Cloud Dataprep
D. A noSQL Database: Cloud BigTable

Correct Answer D

Q 23.You are looking for a low-cost database service that supports strong consistency, atomic transaction and serializable isolation. The data have to be partially structured. What database and what configuration do you choose?

A. Cloud SQL mySQL with default configuration
B. Cloud SQL Postgres with default configuration
C. Cloud Storage with lifecycle
D. Cloud Datastore with transactional commits

Correct Answer D

Q 24. Which languages ?? you can use with Cloud Spanner?

A. Javascript, Json and GQL
B. Java and GQL
C. Python, Javascript and SQL
D. Python, Javascript, GO, Java, PhP, Ruby and SQL

Correct Answer D

Q 25. You have been asked to design an app that allows to upload images and documents to Cloud Storage. These files must be processed, classified, and have to remain available for a month. Then they must be archived. You want to create a simple and functional solution. Which of the following is the best one?

A. Use Google Cloud Storage Triggers and call a function that executes all the task requested

B. Use Google Cloud Storage Triggers and call a function that classifies files; configure the bucket with a lifecycle rule that changes the storage classes of Objects to Coldline Storage

C. Create a Linux Cron Job in a VM that executes all the task requested

D. Use Cloud Scheduler and setup an Appengine app

Correct Answer B

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01. You are capturing important audit activity in Stackdriver Logging. You need to read the information from Stackdriver Logging to perform real-time analysis of the logs.
You will have multiple processes performing different types of analysis on the logging data. What should you do?
a) Read the logs directly from the Stackdriver Logging API.
b) Set up a Stackdriver Logging sync to BigQuery, and read the logs from the BigQuery table.
c) Set up a Stackdriver Logging sync to Cloud Pub/Sub, and read the logs from a Cloud Pub/Sub topic.
d) Set up a Stackdriver Logging sync to Cloud Storage, and read the logs from a Cloud Storage bucket.

02. Your application starts on the VM as a systemd service. Your application outputs its log information to stdout.
You need to send the application logs to Stackdriver without changing the application. What should you do?
a) Review the application logs from the Compute Engine VM Instance activity logs in Stackdriver.
b) Review the application logs from the Compute Engine VM Instance data access logs in Stackdriver.
c) Install Stackdriver Logging Agent. Review the application logs from the Compute Engine VM Instance syslog logs in Stackdriver.
d) Install Stackdriver Logging Agent. Review the application logs from the Compute Engine VM Instance system event logs in Stackdriver.

03. You have a service running on Compute Engine virtual machine instances behind a global load balancer. You need to ensure that when the instance fails, it is recovered. What should you do?

a) Set up health checks in the load balancer configuration.
b) Deploy a service to the instances to notify you when they fail.
c) Use Stackdriver alerting to trigger a workflow to reboot the instance.
d) Set up health checks in the managed instance group configuration.

04. You are building a storage layer for an analytics Hadoop cluster for your company. This cluster will run multiple jobs on a nightly basis, and you need to access the data frequently.
You want to use Cloud Storage for this purpose. Which storage option should you choose?
a) Multi-regional storage
b) Regional storage
c) Nearline storage
d) Coldline storage

05. You have an application that accepts inputs from users. The application needs to kick off different background tasks based on these inputs.
You want to allow for automated asynchronous execution of these tasks as soon as input is submitted by the user.
Which product should you use?
a) Cloud Tasks
b) Cloud Bigtable
c) Cloud Pub/Sub
d) Cloud Composer

06. As part of their expansion, HipLocal is creating new projects in order to separate resources. They want to build a system to automate enabling of their APIs. What should they do?
a) Copy existing persistent disks to the new project.
b) Use the service management API to define a new service.
c) Use the service management API to enable the Compute API.
d) Use the service management API to enable the Cloud Storage API.

07. Your organization has grown, and new teams need access to manage network connectivity within and across projects. You are now seeing intermittent timeout errors in your application.
You want to find the cause of the problem. What should you do?
a) Set up wireshark on each Google Cloud Virtual Machine instance.
b) Configure VPC flow logs for each of the subnets in your VPC.
c) Review the instance admin activity logs in Stackdriver for the application instances.
d) Configure firewall rules logging for each of the firewalls in your VPC.

08. Your company has a successful multi-player game that has become popular in the US. Now, it wants to expand to other regions. It is launching a new feature that allows users to trade points. This feature will work for users across the globe.
Your company's current MySQL backend is reaching the limit of the Compute Engine instance that hosts the game. Your company wants to migrate to a different database that will provide global consistency and high availability across the regions.
Which database should they choose?

a) BigQuery
b) Cloud Spanner
c) Cloud SQL
d) Cloud Bigtable

09. Which architecture should HipLocal use for log analysis?
a) Use Cloud Spanner to store each event.
b) Start storing key metrics in Cloud Memorystore.
c) Use Stackdriver Logging with a BigQuery sink.
d) Use Stackdriver Logging with a Cloud Storage sink.

10. Your company plans to expand their analytics use cases. One of the new use cases requires your data analysts to analyze events using SQL on a near real–time basis.
You expect rapid growth and want to use managed services as much as possible. What should you do?
a) Create a Cloud Pub/Sub topic and a subscription. Stream your events from the source into the Pub/Sub topic. Leverage Cloud Dataflow to ingest these events into BigQuery.
b) Create a Cloud Pub/Sub topic and a subscription. Stream your events from the source into the Pub/Sub topic. Leverage Cloud Dataflow to ingest these events into Cloud Storage.
c) Create a Kafka instance on a large Compute Engine instance. Stream your events from the source into a Kafka pipeline. Leverage Cloud Dataflow to ingest these events into Cloud Storage.
d) Create a Cloud Pub/Sub topic and a subscription. Stream your events from the source into the Pub/Sub topic. Leverage Cloud Dataflow to ingest these events into Cloud Datastore.

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Q1) While implementing firebase hosting, before running firebase init to connect the directory to a Firebase project, we Add your _____ to a local project directory.

1. dynamic content

2. Micro service

3. static assets

4. None of these

Q2) While firebase hosting, We keep our _____ continually present in our DNS settings to prove our ownership of the domain ?

5. Record type

6. apex domain key

7. TXT record

8. None of these

Q3) TARGET_NAME RESOURCE_NAME In the above command "RESOURCE_NAME" defines?

9. the name of the hosting site as listed in your Firebase project

10. create a deploy name of hosting

11. none of these

Q4) If your firebase.json file defines the configuration for only one site, it's not necessary to use an array format" Choose the correct option ?

12. mentioned statement is completely true

13. mentioned statement is completely false

14. mentioned statement is partially true

Q5) You can also delete all unwanted sites directly from your Firebase Hosting Page" this statement is ?

15. Completely True

16. Complete False

17. Partially True

Q6) Firebase authentication is available in the following methods ?

18. Mobile auth Methods

19. Google sign in Method

20. All of these

21. None of these

Q7) Firebase hosting is the process where we can perform any one of the following tasks ?

22. Firebase authorized website hosting

23. host website in nodejs

24. host website in firebase

25. none of these

Q8) TARGET_NAME RESOURCE_NAME In the above command "TARGET_NAME" defines?

26. the name of the hosting site as listed in your firebased project

27. unique identifier defined by the developer for the hosting site that is being deployed

28. none of these

29. all of these

Q9) **To view and share your changes at a temporary preview URL, run_____ function, during the implementation of firebase hosting ?**

30. Firebase hosting channel deploy

31. Firebase hosting Channel deploy

32. Firebse hosting Channel deploy

33. None of these

Q10) **Which of the following tools is used to gain insight into the performance characteristics of your app ?**

34. Crashlytics

35. Test Tab

36. Firebse Performance Monitoring

37. All of these

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