



Google Cloud Platform

Google Cloud Platform Associate Cloud Engineer Exam

Joe Holbrook. Cloudbursting Corp.
Worldwide Consulting Engineer and Technical Trainer
Jacksonville, FL

Associate Cloud Engineer

- Here is the page to review. <https://cloud.google.com/certification/cloud-eng>
- Beta Exam Cost \$125
- Beta Exam Questions 50
- Beta Exam Time 2 Hours
- Beta Exam Case Studies- NA
- Test Vendor Very Poor Choice of test vendor. (not a fan) availability/flexibility for testing. Kryterion which has only one place to test if that in many cities is beyond me for a giant like Google. Unlike Pearson and Vue which have a significant network of test centers. Example in Jacksonville there is one location which was a junior college that had a 4 hour/3 day a week testing schedule. I checked Atlanta which had a few more sites.... Unlike VUE/Pearson that can have 20 locations in a city...



Associate Cloud Engineer

Blog Post GCP

https://cloudplatform.googleblog.com/2018/04/registration-for-the-Associate-Cloud-Engineer-beta-exam-is-now-open.html?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+CIPIB+%28Cloud+Platform+Blog%29

Associate Cloud Engineer

- An Associate Cloud Engineer deploys applications, monitors operations, and manages enterprise solutions. This individual is able to use Google Cloud Console and the command-line interface to perform common platform-based tasks to maintain one or more deployed solutions that leverage Google-managed or self-managed services on Google Cloud.
- The Associate Cloud Engineer exam assesses your ability to:
 - check Set up a cloud solution environment
 - check Plan and configure a cloud solution
 - check Deploy and implement a cloud solution
 - check Ensure successful operation of a cloud solution
 - check Configure access and security
- Register now to take the beta exam beginning May 9

Associate Cloud Engineer

Lets Discuss Objectives.. Or Google calls them Outlines.

Go here....

<https://cloud.google.com/certification/guides/cloud-engineer/>

Follow Along while I touch on major areas I was tested on.

Associate Cloud Engineer

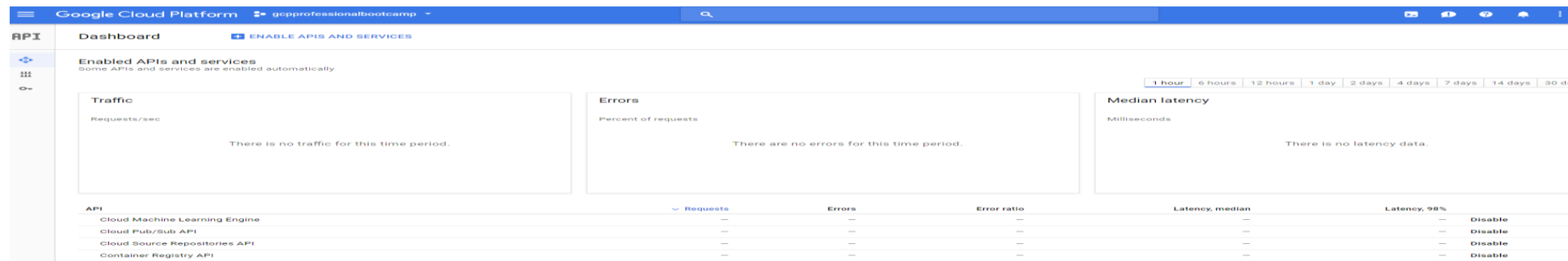
- Here is a highlight of what I seen on the exam.
- 104 Questions that were mainly multiple choice.
- Only one question had a diagram that wanted you to answer services workflow.
- No case study questions that were like the Cloud Architect exam.
- Exam referenced “Google Recommended Practices” multiple times

Associate Cloud Engineer

- Know Gcloud syntax deeply... Example how do you list projects, quotas, .
This page review before test
- <https://cloud.google.com/sdk/gcloud/reference/projects/list>
- Understand the correlation between projects and organizations. How to configure Organizations and billing of projects
- <https://cloud.google.com/resource-manager/docs/creating-managing-projects>
- <https://cloud.google.com/resource-manager/docs/cloud-platform-resource-hierarchy#projects>

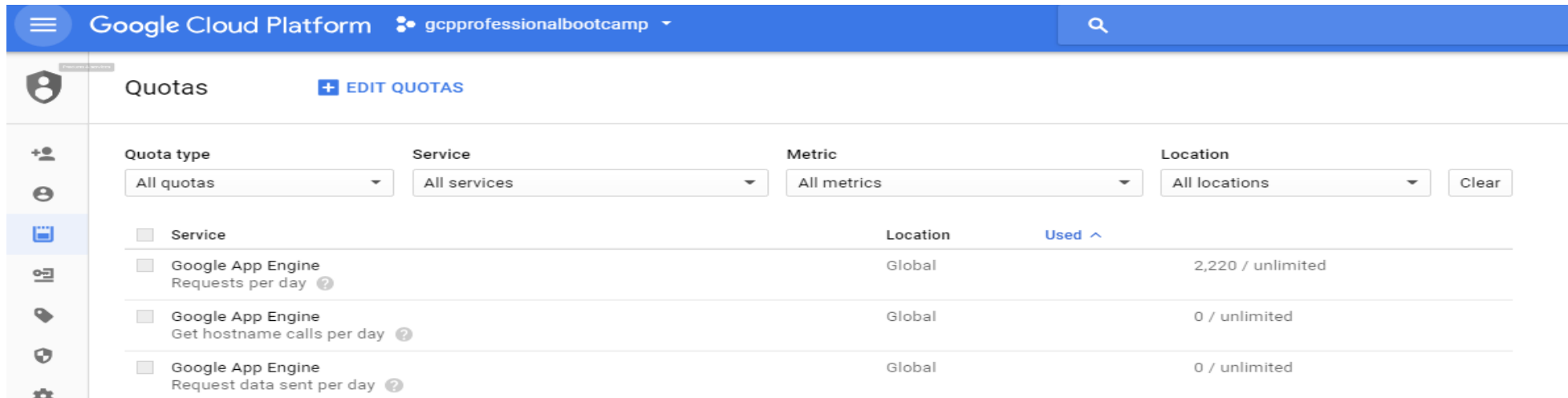
Associate Cloud Engineer

- Over 10 questions were IAM Focused. Know what menu workflow in IAM to enable
- Write to Cloud Storage, Permissions for Auditors, Service Accounts, Logging
- Know the proper menu selection for enabling APIS.



Associate Cloud Engineer

- Get to know how to find quotas via console and the CLI.
- <https://cloud.google.com/compute/quotas>



The screenshot shows the Google Cloud Platform interface for managing quotas. The top navigation bar includes the Google Cloud Platform logo, the account name 'gcpprofessionalbootcamp', and a search icon. The left sidebar contains navigation icons for various services. The main content area is titled 'Quotas' and includes a '+ EDIT QUOTAS' button. Below this, there are four filter dropdowns: 'Quota type' (set to 'All quotas'), 'Service' (set to 'All services'), 'Metric' (set to 'All metrics'), and 'Location' (set to 'All locations'). A 'Clear' button is also present. The table below lists three quotas for Google App Engine:

Service	Location	Used
Google App Engine Requests per day ?	Global	2,220 / unlimited
Google App Engine Get hostname calls per day ?	Global	0 / unlimited
Google App Engine Request data sent per day ?	Global	0 / unlimited

Associate Cloud Engineer

- Understand Bigquery pricing (Several Questions on pricing options)
- <https://cloud.google.com/products/calculator/>

Google Cloud Platform Pricing Calculator Prices are up to date. Last update: 11

< COMPUTE ENGINE APP ENGINE KUBERNETES ENGINE CLOUD STORAGE NETWORKING **BIGQUERY** CLOUD DATASTORE CLOUD DATAPROC >

Estimate ¹

BigQuery

ON-DEMAND FLAT-RATE

Table Name

Name ?

Storage Pricing

Storage GB ?

Streaming Inserts MB ?

Query Pricing

Queries TB ?

Associate Cloud Engineer

- Stackdriver Areas to know
- Accounts (Free or Premium)
- Exact steps to setup monitoring and logging .
- Alert options.... Free vs Premium
- How use Stackdriver Trace and Debug. Why use them

Create new alerting policy

1 Conditions

Conditions describe when apps and services are considered unhealthy. When conditions are met, they trigger alerting policy violations. [Learn more](#)

+ Add Condition

2 Notifications (optional)

When alerting policy violations occur, you will be notified via these channels. [Learn more](#)

Email

Email

Cloud Console mobile app

3 Advanced PREMIUM

PagerDuty

SMS

Hipchat

Campfire

4 Slack Channel

You'll include any text entered here. This can convey useful ways to approach fixing it.

which policies were triggered, as well as managing configurations of different policies.

enter a policy name

Associate Cloud Engineer

- Compute Engine - Know how to authenticate. Numerous questions on best way to deploy windows and linux machines.
- Review pages on Compute Engine Authentication
- <https://cloud.google.com/docs/authentication/>

How to securely connect to Compute Engine.

- <https://cloud.google.com/solutions/connecting-securely>
- Cloud Identity - Capabilities and use case with GCP/GSuite
- <https://support.google.com/cloudidentity/answer/7319251>

Associate Cloud Engineer

- Compute Engine - Boot Images - How to customize images, import and migrate images. How to migrate VMS from inhouse to GCP
- <https://cloud.google.com/solutions/image-management-best-practices>
- Migration option for storage. Storage Migration for in house storage and how to migrate between regions/zones.
- Understand CPU Options. When to use GPUs and TPUS as well.

Associate Cloud Engineer

- Kubernetes engine- Yaml Deployments, Create clusters
- Cloud Repositories, Cloud Container Builder, Cloud Container Registry
- <https://cloud.google.com/products/>
- Create a Kubernetes cluster on Kubernetes Engine.

gcloud container clusters create k0

Go thru this page....

<https://cloud.google.com/kubernetes-engine/docs/tutorials/hello-app>

Associate Cloud Engineer

- Cloud Launcher... Deploy templates
- Pub/Sub. Numerous questions on Pub/Sub and how you would integrate it with other services, how to use it for publisher apps, messaging, resource types and models.
- Cloud Dataflow--- Use for stream and batch data
- BigTable- numerous questions about why and how you could use BigTable. Know it's a high performance NoSQL database service for large analytical and operational workloads.
- BigQuery. Tested heavily around data ingestion and availability. Once again they want to confirm you know that it's a fully managed, petabyte scale, low cost enterprise data warehouse for analytics. BigQuery is serverless.

Associate Cloud Engineer

- Practice Exams
- Course release around 20 May 2018
- <https://www.udemy.com/google-cloud-platform-associate-cloud-engineer-practice-test/?couponCode=BETAREVIEWYT2018>
- Good Luck