Who uses it?
Google Cloud Platfo
products
Computing
Networking
Big Data
Machine Learning

Cloud Computing Working with Google Cloud

Carlos Sánchez Páez

14th March 2019

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- 1 What is Google Cloud Platform?
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What is Google Cloud Platform? Who uses it? Google Cloud Platform products Computing Networking Big Data Machine Learning

• Set of Google's computing resources.

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- They are internally used by Google for their products.

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- Number 3 in the public cloud market (behind AWS and Azure).

- Set of Google's computing resources.
- They are internally used by Google for their products.
- Number 3 in the public cloud market (behind AWS and Azure).
- Offers IaaS, PaaS, SaaS over more than 50 products.

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> You can freely choose the resources for your Virtual Machine or use a template.

- You can freely choose the resources for your Virtual Machine or use a template.
- Lots of interactive tutorials.

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- Project Control Panel.

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- Android App.

- You can freely choose the resources for your Virtual Machine or use a template.
- Lots of interactive tutorials.
- Project Control Panel.
- Android App.
- Online terminal or CLI available.

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2 Who uses it?



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Who uses it?













More than 4 million paying customers (February 2018).

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Google Cloud Platform products

Google Cloud Platform



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GCP Computing products

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• App Engine: scalable apps in a serverless platform (PaaS).

GCP Computing products

- App Engine: scalable apps in a serverless platform (PaaS).
- Compute Engine: scalable virtual machines (laaS).

GCP Computing products

- App Engine: scalable apps in a serverless platform (PaaS).
- Compute Engine: scalable virtual machines (IaaS).
- Kubernetes: run containers (Docker).

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What is Google Cloud Platform? Who uses it? Google Cloud Platford products Computing Networking Big Data Machine Learning

• Cloud Armor: protection against DoS attacks.

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- Cloud VPN

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- Cloud VPN
- Network Service Tiers: optimize network for performance or cost.

- Cloud Armor: protection against DoS attacks.
- Cloud VPN
- Network Service Tiers: optimize network for performance or cost.
- Load balancing: intelligent scaling through multiple regions.

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GCP Big Data products

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• Dataflow: batch data processing.

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Platform?

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- Dataflow: batch data processing.
- Genomics (for bioinformatics)

GCP Big Data products

Platform?

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- Dataflow: batch data processing.
- Genomics (for bioinformatics)
- Dataprep: clean data for analysis.

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• Vision API: recognise objects in an image.

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- Speech API: voice to text.

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- Speech API: voice to text.
- Natural Language API: extract information from a text (sentiment, importance in the whole text).

- Vision API: recognise objects in an image.
- Speech API: voice to text.
- Natural Language API: extract information from a text (sentiment, importance in the whole text).
- Translate API: Google Translate.

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Source code

```
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Computing

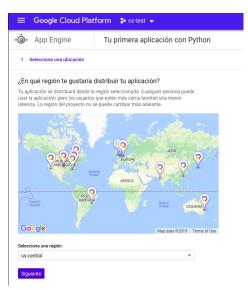
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```

```
import webapp2
class MainPage(webapp2.RequestHandler):
    def get(self):
        self.response.headers
        ['Content-Type'] = 'text/plain'
        self.response.write('Hello world!')

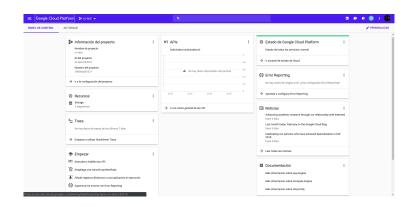
app = webapp2.WSGIApplication([
    ('/', MainPage),
    ], debug=True)
```

Step 1: creating the project



Control panel





Step 2: setting up the project in gcloud CLI

Step 3: testing the app in the local machine

```
dev.appserver.py.app.yaml

dev.appserver.py.app.yaml 130x24

dev.appserver.py.app.yaml 130x24

dev.appserver.py.app.yaml 130x24

dev.appserver.py.app.yaml 130x24

dev.appserver.py.app.yaml 120x24

dev.appserver
```

Step 3: testing the app in the local machine

```
← → C ♠ (i) localhost:8080

Compras Manuales Progr
```

Step 4: modifying the app

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Step 4: modifying the app

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Step 5: deploying the app

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Step 5: deploying the app

```
← → C ♠ https://cc-test-234210.appspot.com

Compras Manuales Programacion Astro
```

Hello Cloud world!

Thanks for your attention!