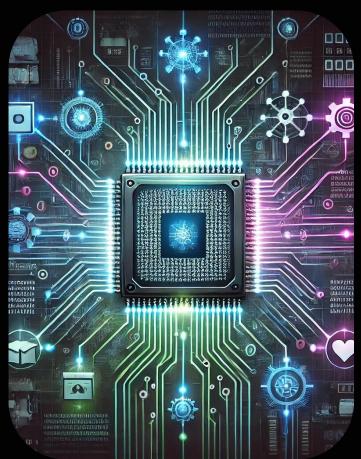


# CI/CD Descomplicado Deploy de Aplicações Python no GCP

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# Conteúdo:

- CI (Continuous Integration)
   CD (Continuous Delivery)
- Google Cloud Platform (GCP)
- Github Actions
- Python
- E muito + ...





https://github.com/lccruz/CI\_CD\_Descomplicado



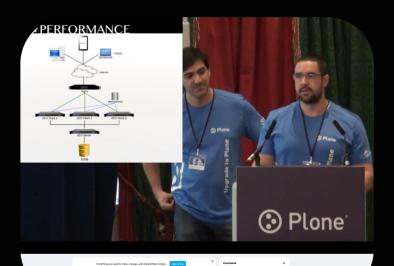






















### Use Case



```
services > diango-app > product > 💠 views.py > ...
       from django.http import JsonResponse
       from product.models import Product
       from product.services import get_service_data
       def product_list(request):
           """Product List."""
           products = Product.objects.all().values()
           data = {
               'products': list(products),
               'external': get_service_data()
           return JsonResponse(data, safe=False)
```

```
django
```





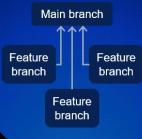
# CONTINUOUS INTEGRATION (CI)

### CONTINUOUS DELIVERY OR CONTINUOUS DEPLOYMENT (CD)

### SOURCE

Code repository

Feature branches are committed to the main branch of a code repository.



### BUILD

Development environment

Resources are provisioned in a development environment.

### **TEST**

Development environment

Multiple tests are performed, such as unit, integration, acceptance, and performance tests.

### **STAGING**

Preproduction environment

Resources are provisioned in a pre-production environment, and final unit and integration tests are performed.

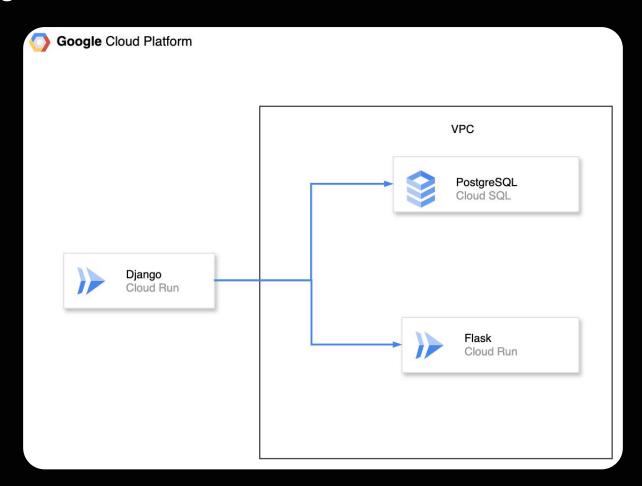
### **PRODUCTION**

Production environment

The code is released to the production environment.

# **Use Case**





## Google Cloud - Services





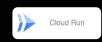
Fornece um único local para armazenar e gerenciar pacotes e imagens de contêiner do Docker.

https://cloud.google.com/artifact-registry/docs/overview



É um serviço de banco de dados totalmente gerenciado (MySQL, o PostgreSQL ou o SQL Server).

https://cloud.google.com/sql/docs



É uma plataforma de computação gerenciada que permite gerar contêineres diretamente na infraestrutura escalável.

https://cloud.google.com/run/docs/overview/what-is-cloud-run



VPC (Virtual Private Cloud) é uma versão virtual de uma rede física que é implementada dentro da rede de produção.

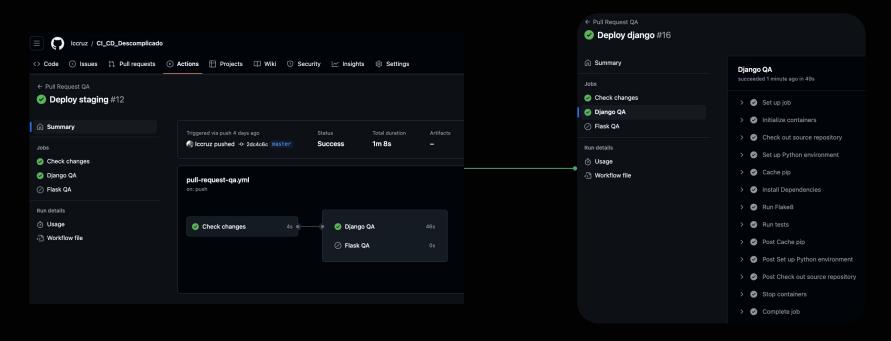
https://cloud.google.com/vpc/docs/vpc





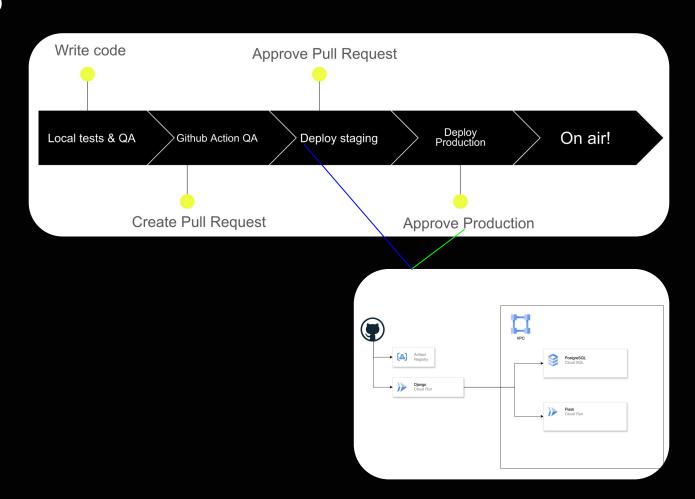
GitHub Actions is a continuous integration and continuous delivery (CI/CD) platform that allows you to automate your build, test, and deployment pipeline.
GitHub Free Minutes (per month): 2,000

https://docs.github.com/en/actions/about-github-actions/understanding-github-actions https://docs.github.com/en/billing/managing-billing-for-your-products/managing-billing-for-github-actions/about-billing-for-github-actions



# Resumo











# Thanks ...

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