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Pre requisite

Billing: If you have a new account created on google cloud, ensure that you activated your billing account details or your free testing period on google.

SDK: if you do not have the SDK already installed on your desktop, follow the procedure for Installing/Configuring SDK as detailed on this document Apendice A.

Python framework: install Python and the necessary modules as detailed on Appendix B.:

Pre requite before running the Terraform

Download the project from git:

Change to the Terraform project folder downloaded from git

On the google console, execute the following steps

Create a new project called prjdbjsolucx and associate it with your billing account

Create a GSA (google service account) and gives to it the Project->Editor role

Change the content of the terraform-gsa variable on the file terraform.tfvars to the GSA name created on the step before.

Download the GSA json key and rename it as: prjdbjsolucx-gsa.json

Executar o build da imagem

```
gcloud builds submit --tag gcr.io/prjdbjsolucx/helloworld-gke .
```

Running Terraform

Execute the following command to install the providers defined on the main.tf:

```
terraform init
```

Run the terraform fmt command to check the main.tf for readability and consistency:

```
terraform fmt
```

Run the terraform validate command to check syntax consistency of the main.tf:

```
terraform validate
```

Run the terraform apply command to execute the main.tf. As illustrated by the command bellow:

```
terraform apply -var="cred-file-path=<CRED_FILE>" -var="yaml-file-path=<YAML_FILE >"
```

< CRED_FILE >: deve ser substituido pelo nome completo do arquivo de credenciais prjdbjsolucx-gsa.json.

< YAML_FILE >: deve ser substituido pelo nome completo do arquivo deployment-ter.yaml.

Exemplo: terraform apply -var="cred-file-path=C:\\decio\\prjdbjsolucx-gsa.json" -var="yaml-file-path=C:\\decio\\deployment-ter.yaml"