${\sf SoluCX_HelloWorld-Terraform}$

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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 pridbjsolucx 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 complete do arquivo de credenciais prjdbjsolucx-gsa.json. < YAML FILE >: deve ser substituido pelo nome complete do arquivo deployment-ter.yaml.

 $Exemplo: terraform\ apply\ -var="cred-file-path=C:\decio\pridbjsolucx-gsa.json"\ -var="yaml-file-path=C:\decio\decio\pridbjsolucx-gsa.json"\ -var="yaml-file-path=C:\decio\decio\pridbjsolucx-gsa.json"\ -var="yaml-file-path=C:\decio\decio\pridbjsolucx-gsa.json"\ -var="yaml-file-path=C:\decio\d$

Connect to the mysql instance and creates: database, table and one record

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gcloud sql connect dbjmysql21 --user=root
```

Connecting to database with SQL user [root]. Enter password: password123

Configure kubectl to communicate with the cluster:

gcloud container clusters get-credentials helloworld-ter

Add annotation to the Kubernetes service account.

kubectl annotate serviceAccount --namespace default helloworld-gke-ksa iam.gke.io/gcp-service-account=helloworld-gsa@prjdbjsolucx.iam.gserviceaccount.com

Deploy the application.

kubectl apply -f deployment-ter.yaml kubectl apply -f service.yaml kubectl get services