

Hands-on with Terraform and Google Cloud

Steps

- Create the terraform config files
variables.tf:

```
variable "gcp_project_id" { default = "dotted-rookery-321921" }  
variable "gcp_region" { default = "us-east4" }
```

main.tf:

```
terraform { required_providers { google = { source = "hashicorp/  
google" version = "~> 4.37.0" } } } provider "google" { project  
= var.gcp_project_id } resource "google_container_cluster" "prim  
ary" { name = "kubernetes-cluster-001" location = var.gcp_region  
initial_node_count = 1 enable_autopilot = true ip_allocation_pol  
icy { } } resource "google_sql_database_instance" "instance" { n  
ame = "my-database-instancexxxx" region = var.gcp_region databas  
e_version = "MYSQL_8_0" settings { tier = "db-f1-micro" } deleti  
on_protection = "true" } resource "google_sql_database" "databas  
e" { name = "my-database" instance = google_sql_database_instanc  
e.instance.name }
```

- Upload them to Cloud Shell
- Run terraform commands to start provisioning

```
terraform init terraform plan terraform apply
```

- Run terraform command to destroy it

```
terraform destroy
```