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**Project Name:** Infra setup through Terraform.

**Project:**

1. Created an EC2 instance and connected
2. Created user in IAM and saved credentials (Access key id & Secret access key)
3. Installed terraform in the instance

Text

Description automatically generated

1. Created directory terraform and created for main.tf in directory
2. Wrote the terraform program on the main.tf file.

Terraform Program to Create ( 1 VPC, 1RDS, 2EC2 INSTANCES (NAME : ONE & TWO), 3 S3 BUCKETS AND 4 IAM USERS (USER1, USER2, USER3 AND USER4):

provider "aws" {

region = "us-east-2"

access\_key = "AKIAYBZTUVKXSOMT2XHM"

secret\_key = "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"

}

resource "aws\_vpc" "shravan\_vpc" {

cidr\_block = "10.0.0.0/16"

tags = {

Name = "terraform\_vpc"

}

}

resource "aws\_db\_instance" "shravan\_db" {

allocated\_storage = 20

identifier = "terraformdb"

storage\_type = "gp2"

engine = "mysql"

engine\_version = "8.0.28"

instance\_class = "db.m4.large"

db\_name = "terraformdb"

username = "shravan"

password = "Passwoord"

}

resource "aws\_instance" "shravan\_ec2" {

ami = "ami-0fa49cc9dc8d62c84"

instance\_type = "t2.micro"

for\_each = toset(["one", "two"])

tags = {

Name = "${each.key}"

}

}

resource "aws\_s3\_bucket" "shravan\_s3\_bucket" {

count = length(var.s3\_bucket\_names)

bucket = var.s3\_bucket\_names[count.index]

}

variable "s3\_bucket\_names" {

description = " Creating 3 s3 Buckets as part of infra creation "

type = list

default = ["terraform-s3bucket01","terraform-s3bucket02", "terraform-s3bucket03"]

}

resource "aws\_iam\_user" "terraform\_iam\_users" {

count = length(var.user\_names)

name = var.user\_names[count.index]

}

variable "user\_names" {

description = " creating i am user "

type = list(string)

default = ["user1", "user2", "user3", "user4"]

}

1. Ran terraform plan to check the program.
2. Successfully passed the program without error.Ran terraform apply command to execute the program and create the infrastructure
3. Successfully created ( 1 VPC, 1RDS, 2 EC2 INSTANCES (NAME : ONE & TWO), 3 S3 BUCKETS AND 4 IAM USERS (USER1, USER2, USER3 AND USER4):

Graphical user interface, application

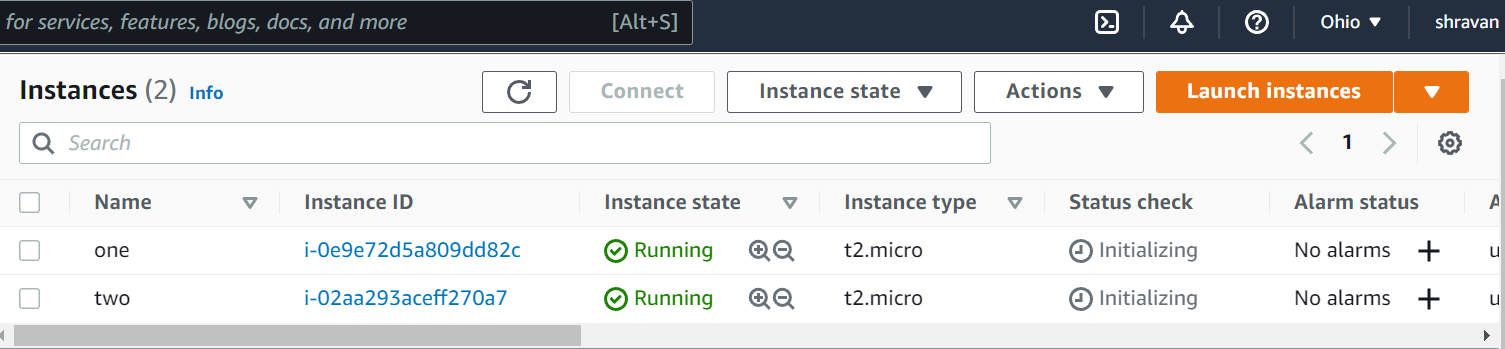
Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, application, email

Description automatically generated



Graphical user interface

Description automatically generated

1. Deleted the infrastructure by running the terraform destroy command.