Name: Madireddy Mahesh

Batch: March 1st 2022

Tutor: Raham Shaik

Project Name: Infra Setup Through Terraform

* Infra Setup Through Terraform:

1. Create Ec2 instance with AMI Amazon Linux
2. Wrote the terraform program on the main.tf file.
3. 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 = “ap-south-1”

resource “aws\_vpc” “stagging-vpc” {

cidr\_block = “10.5.0.0/16”

tags = {

Name = “Mahesh”

}

}

resource “aws\_db\_instance” “default”

allocated\_storage = 10

engine = “my sql”

engine\_version = “5.7”

instance\_class = “db.t3.micro”

db\_name = “mahesh”

username = “mahi”

password = “maheshmadireddy”

parameter\_group name = “default.mysql5.7”

skip\_final\_snapshot = true

}

Resource “aws\_s3\_bucket” “example” {

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

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

}

Variable “s3\_bucket\_names” {

Description = “ creating Buckets as per requirement”

Type = list

Default = [ “terraform-s3bucket01” , “terraform-s3bucket02” , “terraform-s3bucket03”]

}

Resource “aws\_instance” “ec2\_example” {

Ami = “ami-08df646e18b182346”

Instance\_type = “t2.micro”

Count = var.instance\_type

Tags = {

Name = “ONE”

Name = “TWO”

}

}

Variable “instance\_type” {

Description = “ creating ec2 instances as per requirement”

Type = number

Default = 2

}

Resource “aws\_iam\_user” “MM” {

Count = length(var.user\_names)

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

}

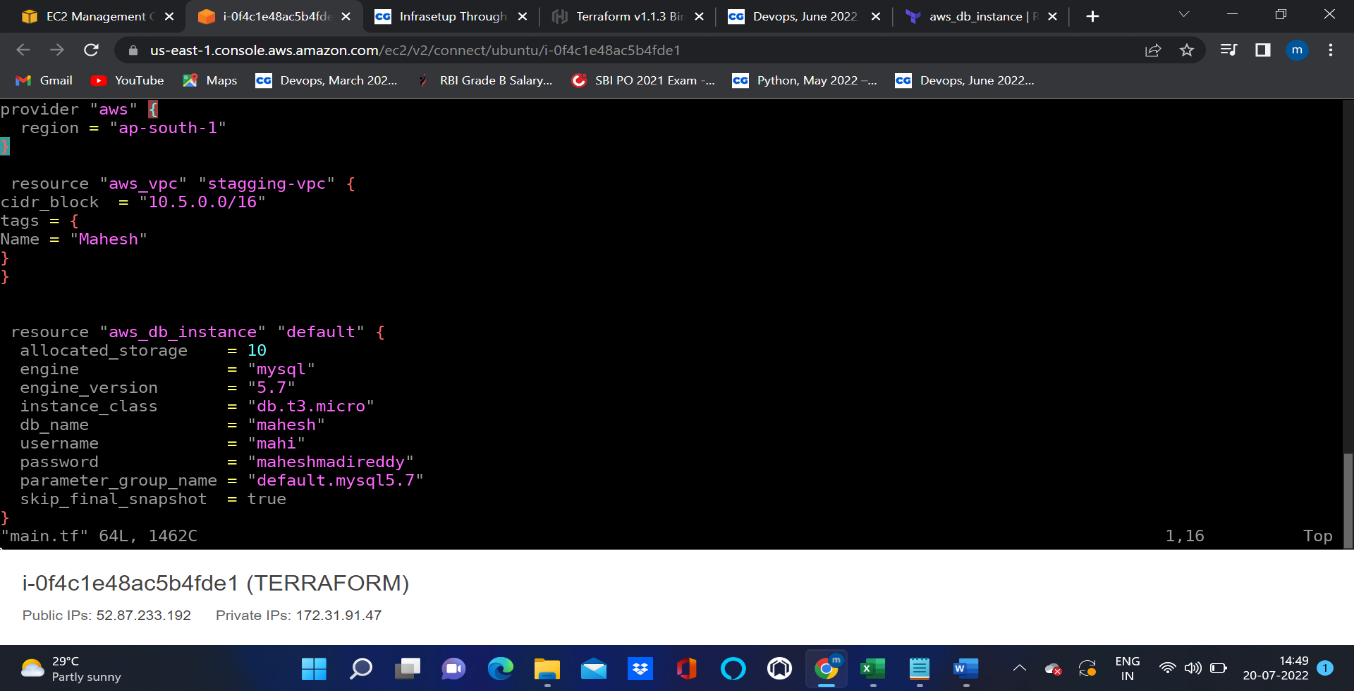
Variable “user\_names”

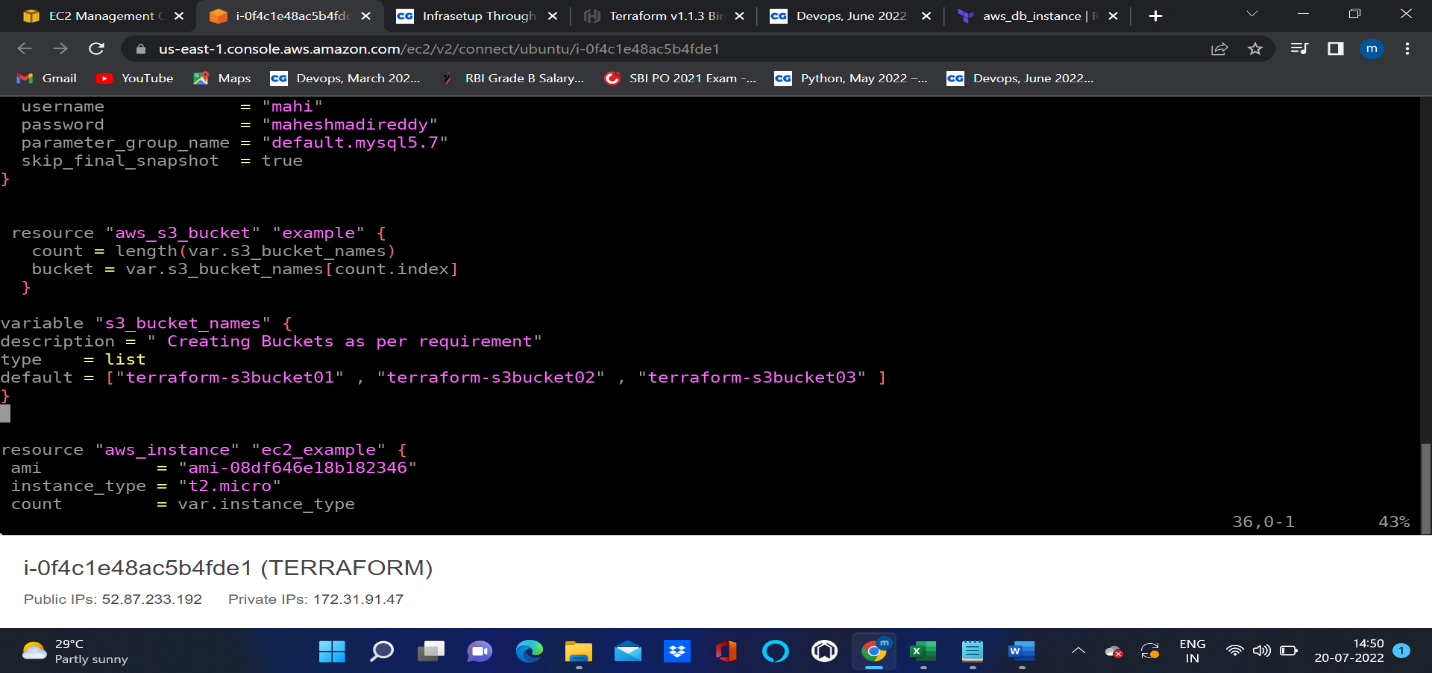
Description = “creating iam user as per requirement”

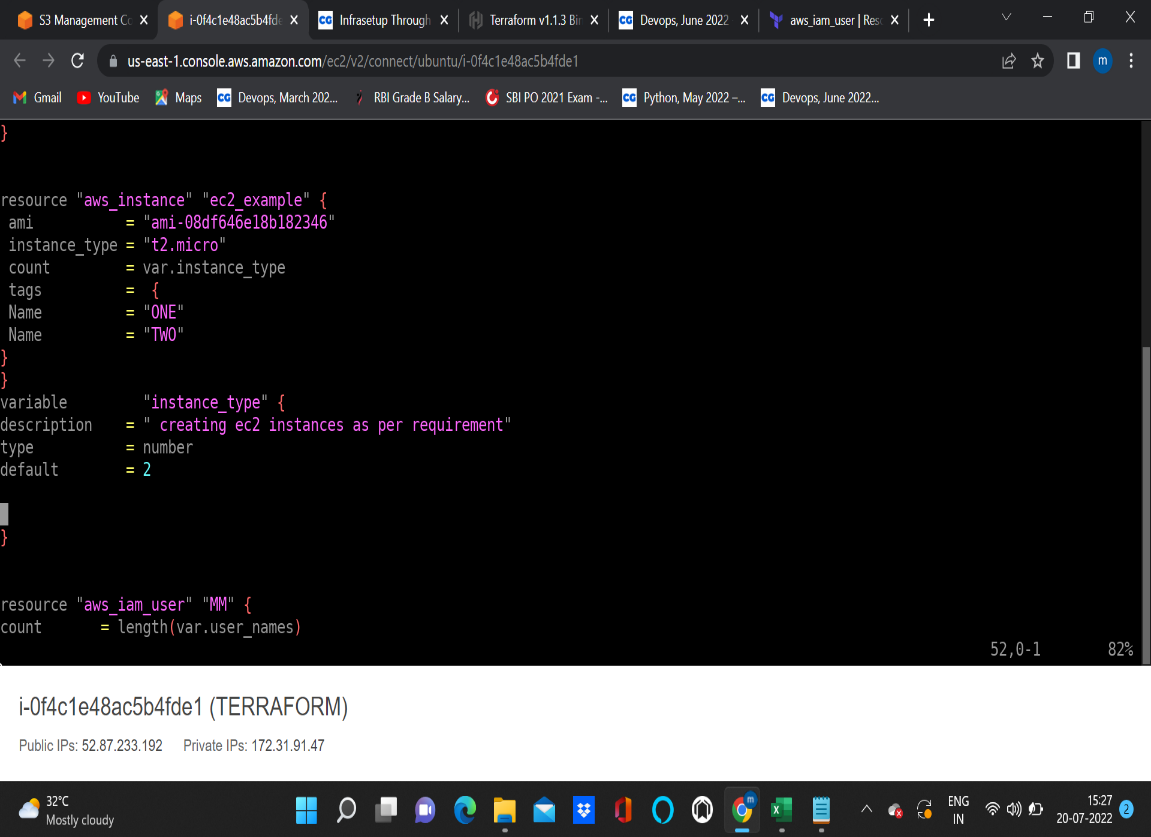
Type = list(string)

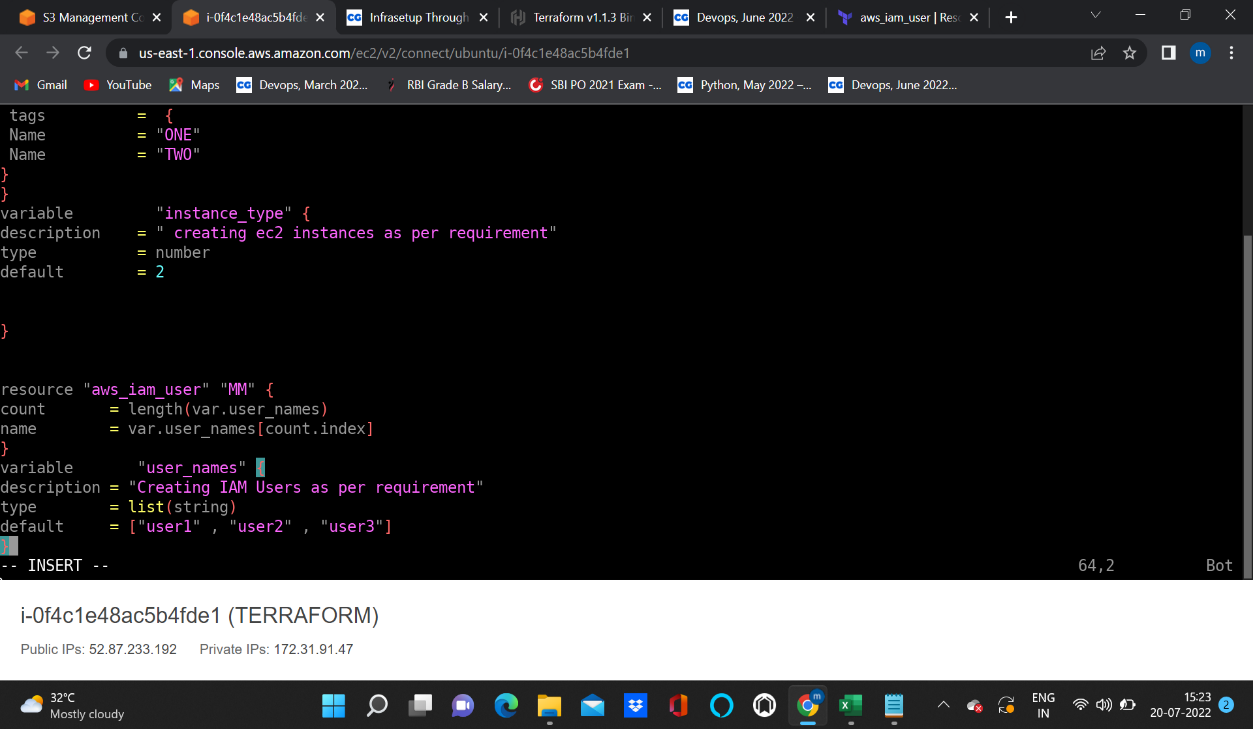
Default = [“user1”, “user2” , “user3”]

}

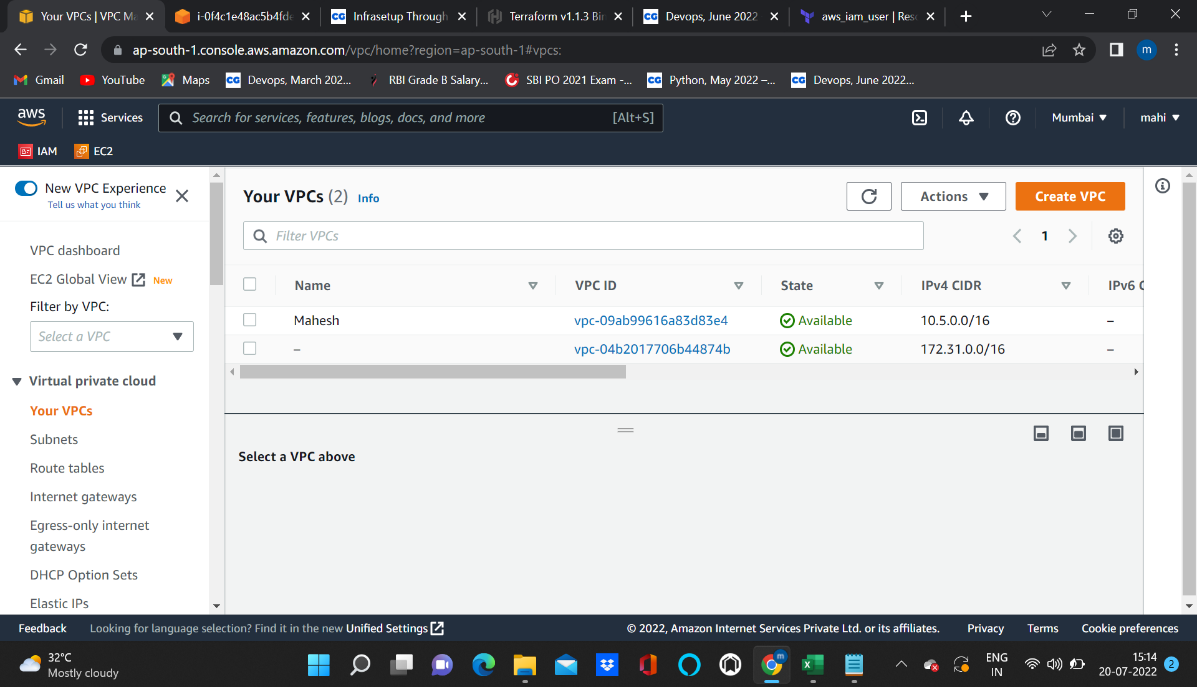


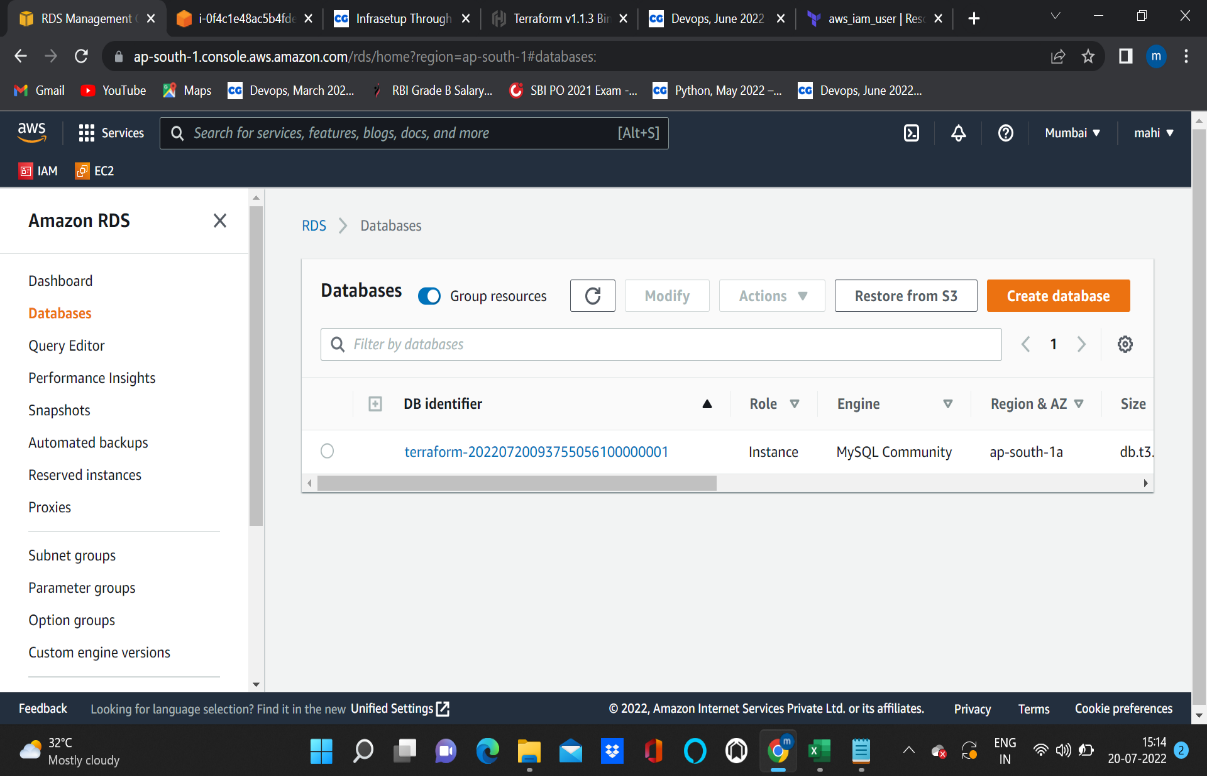


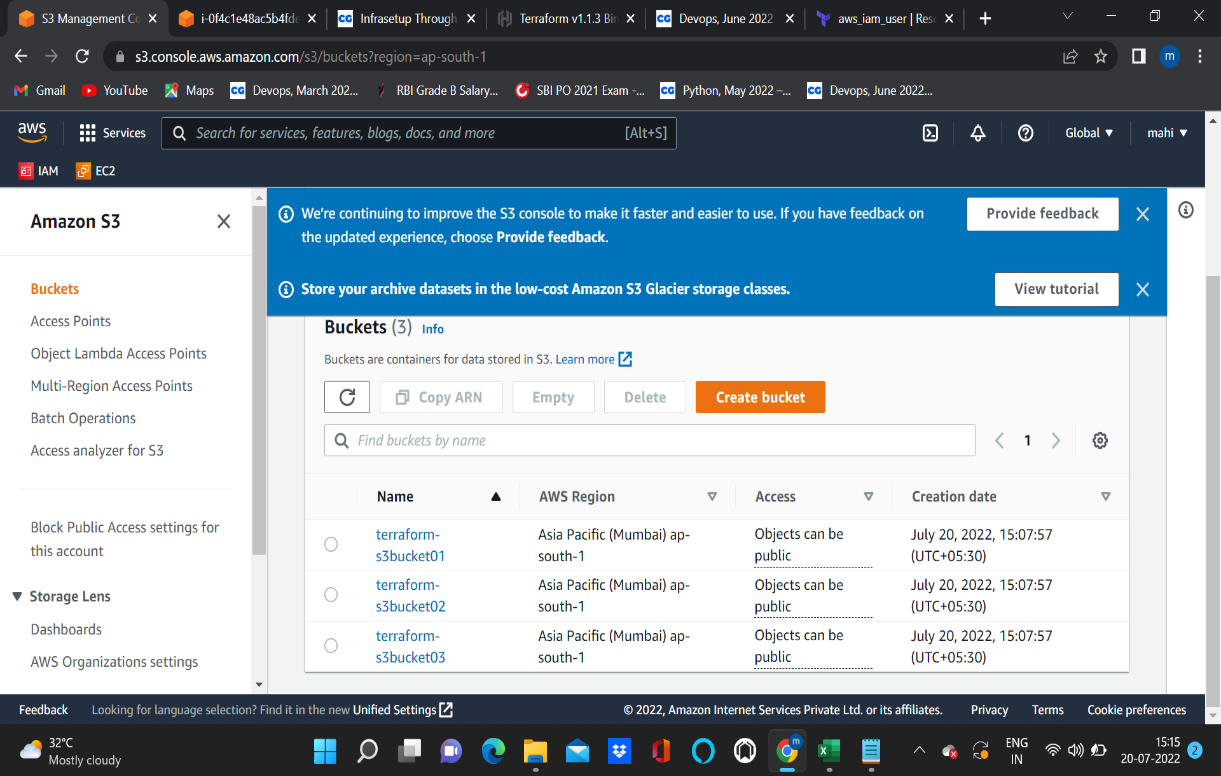


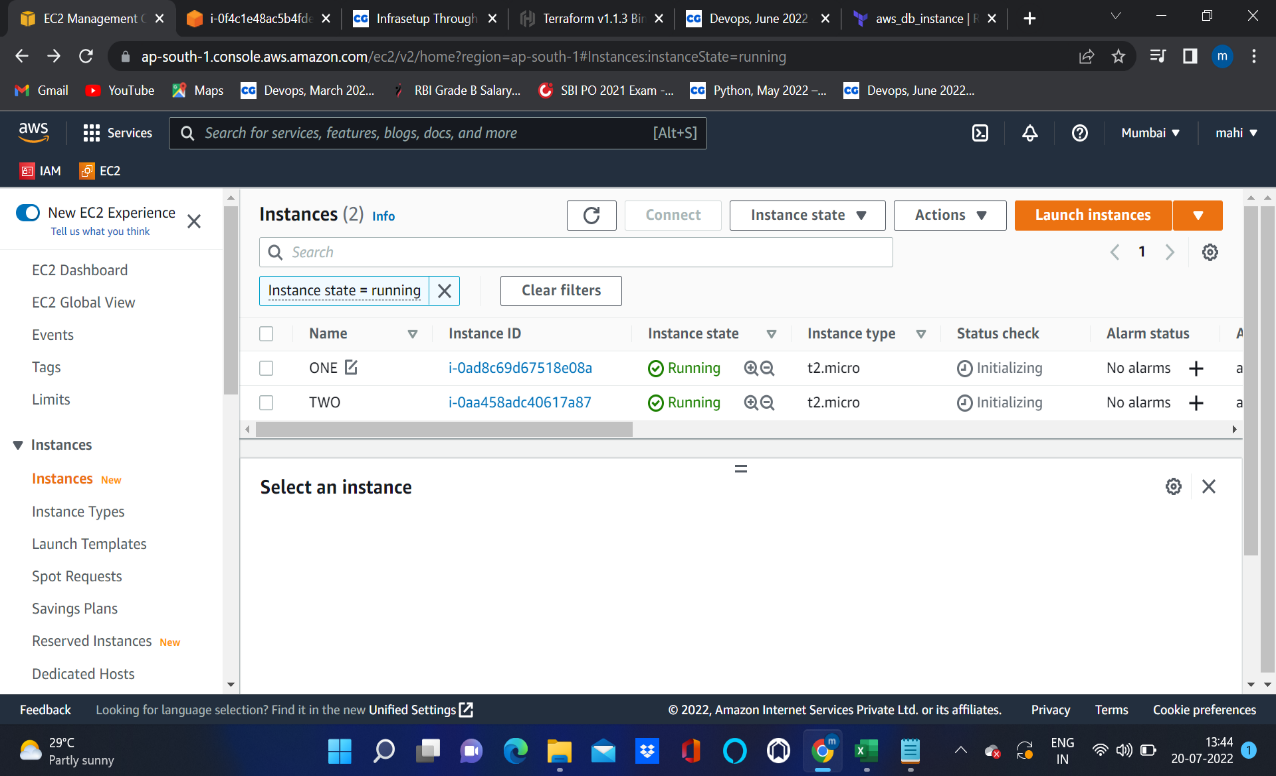


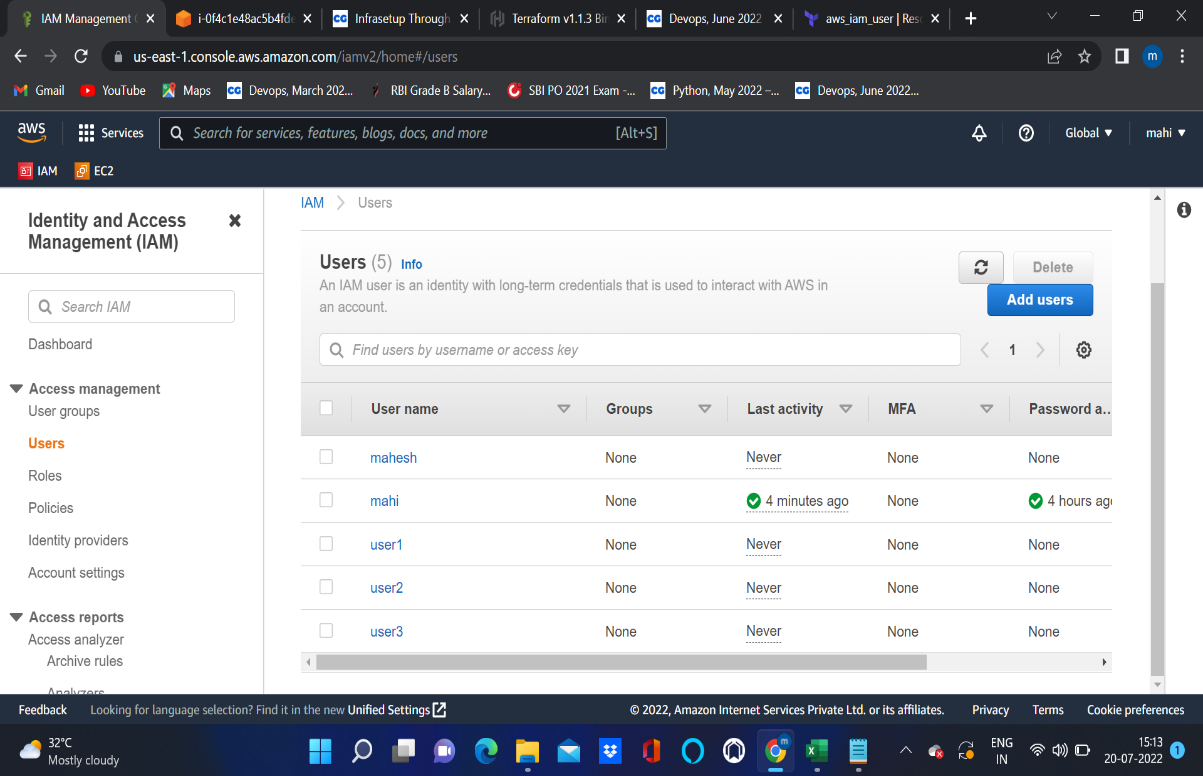
1. Run Terraform plan to check the program
2. After that Terraform apply to get output











1. Run Terraform Destroy to delete

