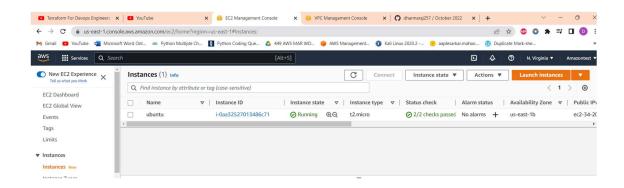
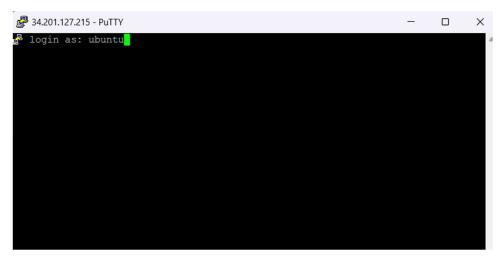
Project: create a simple project creating AWS RDS db instance using terraform resource.

- 1. Create a ubuntu server
- I. launch instance and give name ubuntu.
- ii. select ubuntu and t2. micro-CPU
- iii. download a new keypair.
- iv. select default VPC
- v. In security group allows ssh, https and http allow anywhere.
- vi. launch instance.



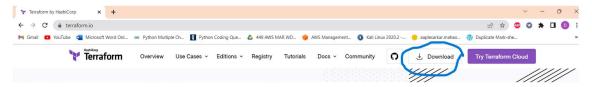
- 2. Log in to the ubuntu server using putty
- I. copy the public IPv4 and paste on the putty.
- II. Select ssh and go to the authentication and upload the ppk file
- III. Then put password ubuntu and log in.



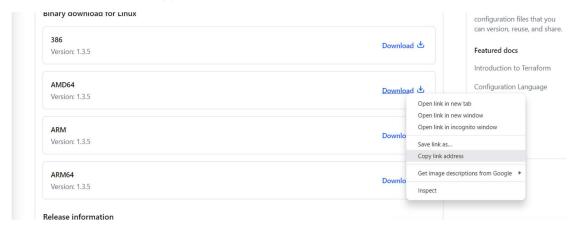
- 3. Update the server
- I. use to update server use command
- II. Sudo apt update -y

```
dubuntu@ip-172-31-84-44: ~
                                                                          X
ubuntu@ip-172-31-84-44:~$ sudo apt update -y
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease [11
kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
108 kBl
Get:4 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/u<u>niverse amd64 Packaq</u>
es [8628 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe Translation-
en [5124 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 c-n-f
Metadata [265 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 Pack
ages [144 kB]
```

- 4. Install the terraform on the server.
- I. visit https://www.terraform.io/ and click the download button



II. select Linux amd64 and copy the link address



III. Paste on the server wget

https://releases.hashicorp.com/terraform/1.3.4/terraform 1.3.4 linux amd64.zip

```
ubuntu@ip-172-31-84-44:~

ubuntu@ip-172-31-84-44:~

wget https://releases.hashicorp.com/terraform/1.3.5/te
rraform_1.3.5_linux_amd64.zip
```

IV. Sudo apt install unzip -y

V. Sudo unzip terraform_1.3.4_linux_amd64.zip

```
ubuntu@ip-172-31-84-44:~

ubuntu@ip-172-31-84-44:~$ ls
terraform_1.3.5_linux_amd64.zip
ubuntu@ip-172-31-84-44:~$ sudo unzip terraform_1.3.5_linux_amd64.zip
Archive: terraform_1.3.5_linux_amd64.zip
inflating: terraform
ubuntu@ip-172-31-84-44:~$
```

VI. Sudo cp terraform /bin

```
ubuntu@ip-172-31-84-44:~$ sudo cp terraform /bin ubuntu@ip-172-31-84-44:~$ ls terraform terraform_1.3.5 linux_amd64.zip ubuntu@ip-172-31-84-44:~$
```

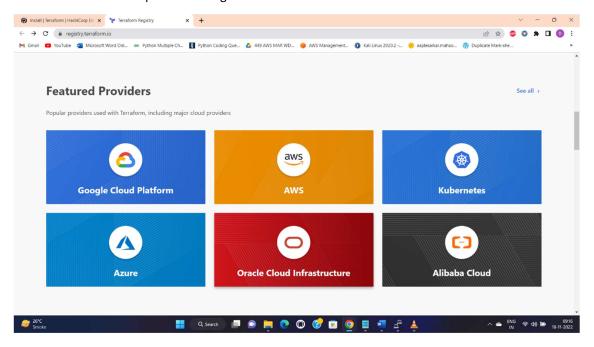
VII. terraform -v



- 5. Select registry and create rds.tf file
- I. Go to the home page and click on the registry



ii. Then select the AWS provider and go to the documentation



iii. search RDS and copy the resource RDS



- 6. Creating RDS db Instance using terraform script.
- I. Sudo mkdir RDS
- II. cd RDS and create file sudo nano RDS.tf

```
# ubuntu@ip-172-31-84-44: ~/rds
                                                                           X
 GNU nano 4.8
                                       rds.tf
rovider "aws" {
 region = "us-east-2"
 nMZKIvBdnE"
resource "aws_db_instance" "default" {
 allocated storage = 20
 db name
                      = "mydb"
engine = 'mysqr'
engine_version = "5.7"
instance_class = "db.t2.micro"
= "admin"
username = "admin"
password = "temp12345"
 parameter_group_name = "default.mysql5.7"
 skip_final_snapshot = true
                               [ Read 18 lines ]
             ^O Write Out ^W Where Is
                                        ^K Cut Text
                                                     ^J Justify
                                                                   ^C Cur Pos
```

III. Sudo terraform init.

```
ubuntu@ip-172-31-84-44:~/rds — X

ubuntu@ip-172-31-84-44:~/s3$ cd ...

ubuntu@ip-172-31-84-44:~$ sudo mkdir rds

ubuntu@ip-172-31-84-44:~$ cd rds

ubuntu@ip-172-31-84-44:~/rds$ sudo nano rds.tf

ubuntu@ip-172-31-84-44:~/rds$ sudo nano rds.tf

ubuntu@ip-172-31-84-44:~/rds$ sudo terraform init

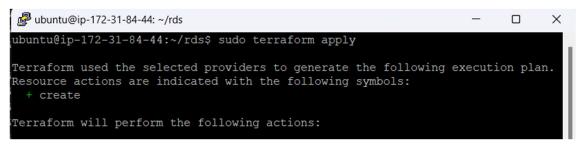
Initializing the backend...

Initializing provider plugins...

- Finding latest version of hashicorp/aws...

- Installing hashicorp/aws v4.40.0...
```

Iv. Sudo terraform apply.



v. Check the Output db instance.

