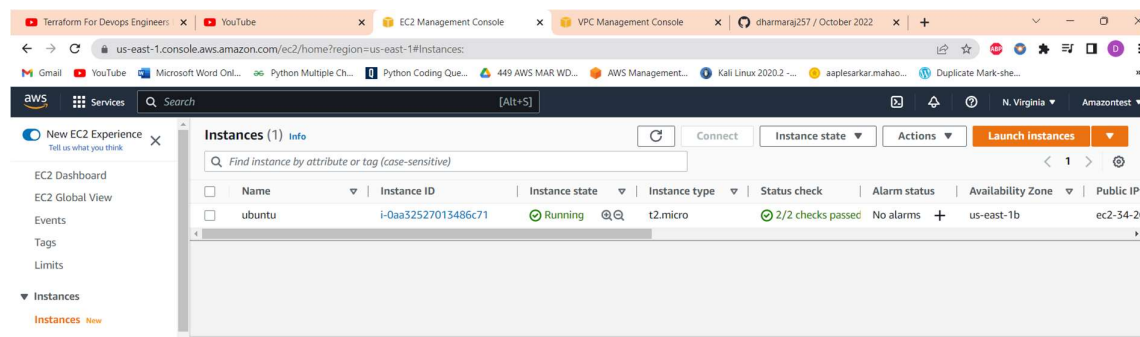


Project: create a simple project creating AWS s3 bucket using terraform resources.

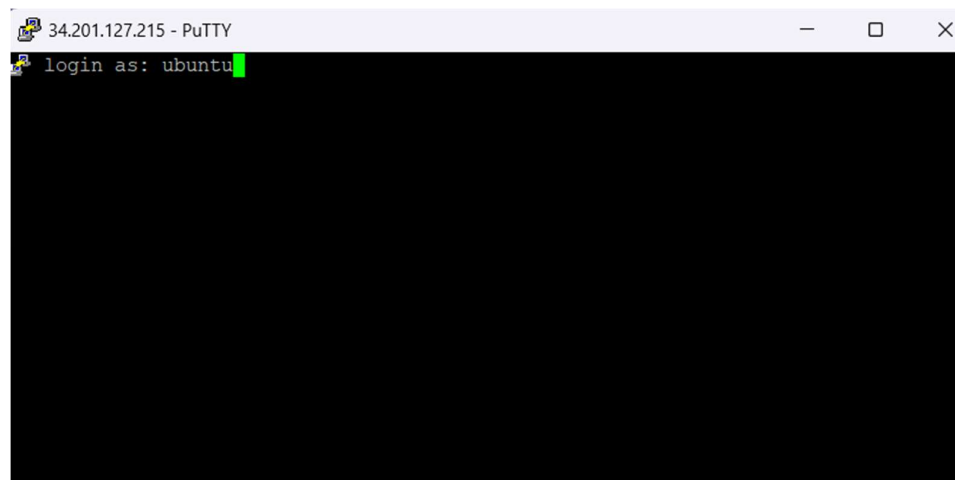
1. Create a ubuntu server

- 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

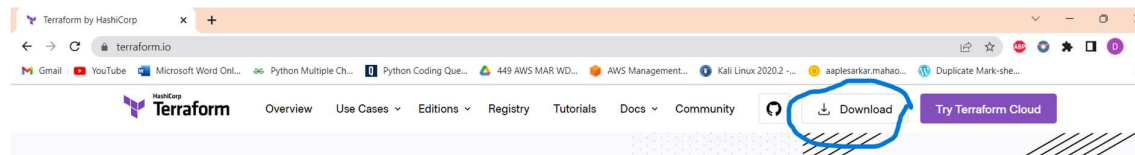
I. use to update server use command

II. Sudo apt update -y

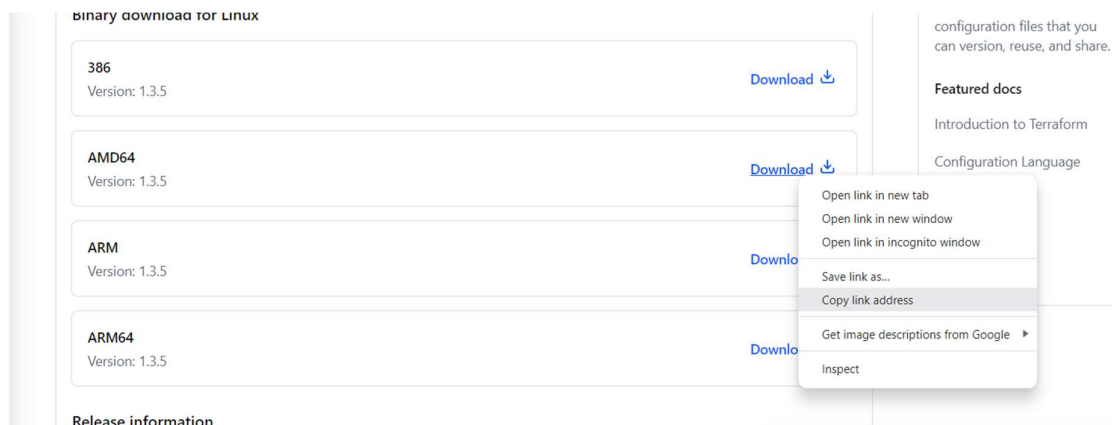
```
ubuntu@ip-172-31-84-44: ~  
ubuntu@ip-172-31-84-44:~$ sudo apt update -y  
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease  
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]  
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]  
Get:4 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]  
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 Packages [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 Packages [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

```
ubuntu@ip-172-31-84-44: ~  
ubuntu@ip-172-31-84-44:~$ sudo apt install unzip -y  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
Suggested packages:  
  zip  
The following NEW packages will be installed:  
  unzip
```

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

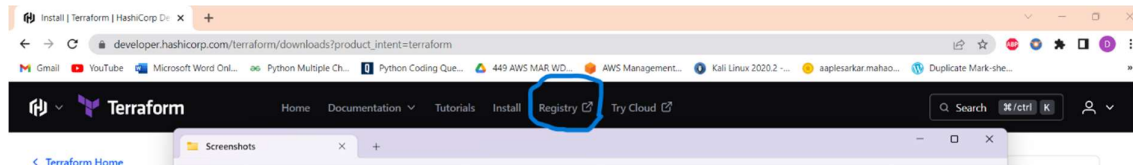
```
ubuntu@ip-172-31-84-44:~$ sudo cp terraform /bin  
ubuntu@ip-172-31-84-44:~$ ls  
terraform terraform_1.3.5_linux_amd64.zip  
ubuntu@ip-172-31-84-44:~$
```

VII. terraform -v

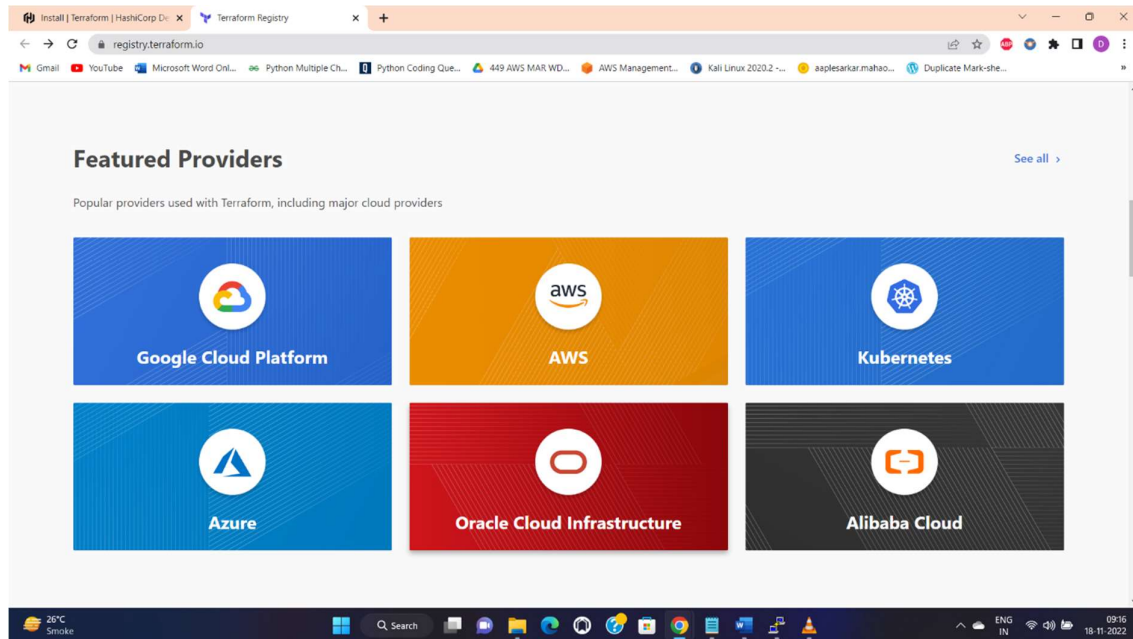
```
ubuntu@ip-172-31-84-44: ~  
ubuntu@ip-172-31-84-44:~$ terraform -v  
Terraform v1.3.5  
on linux_amd64  
ubuntu@ip-172-31-84-44:~$
```

5. Select registry and create s3 bucket

i. Go to the home page and click on the registry






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



iii. search s3 and copy the resource s3 bucket

Providers / hashicorp / aws / Version 4.40.0 ▾ Latest Version

aws  Overview **Documentation**  USE PROVIDER ▾

aws  **aws**
Official by HashiCorp
Public Cloud

47 matching results
S3 (Simple Storage)

Use the Amazon Web Services (AWS) provider to interact with the many resources supported by AWS. You must configure the provider with the proper credentials before you can use it.

Use the navigation to the left to read about the available resources.

Provider Downloads All versions ▾
Downloads this week 15.1M
Downloads this month 38.6M

Example Usage
Authentication and Configuration
AWS Configuration Reference
Custom User-Agent Information
Argument Reference

```
resource "aws_s3_bucket_acl" "example" {  
  bucket = aws_s3_bucket.b.id  
  acl    = "private"  
}
```

iv. and the provider, region, access key, secret key

```
provider "aws" {  
  region = "us-east-2"  
  access_key = "*****"  
  secret_key = "0x9lrO*****W27nMZKlvBdnE"  
}
```

```
resource "aws_s3_bucket" "b" {  
  bucket = "creatings3"  
  acl    = "private"
```

```
  versioning {  
    enabled = true  
  }  
}
```

v. Create folder `sudo mkdir s3` and go to the folder `cd s3`

```
ubuntu@ip-172-31-84-44: ~/s3
ubuntu@ip-172-31-84-44:~$ sudo mkdir s3
ubuntu@ip-172-31-84-44:~$ ls
s3 terraform terraform_1.3.5_linux_amd64.zip
ubuntu@ip-172-31-84-44:~$ cd s3
```

vi. `sudo nano s3.tf` and paste the credential

```
ubuntu@ip-172-31-84-44: ~/s3
GNU nano 4.8 s3.tf Modified
provider "aws" {
  region = "us-east-2"
  access_key = "AKIAI44QH8DHBVS72L2"
  secret_key = "0x9lrOkToc97v4W4J8vBdnE"
}

resource "aws_s3_bucket" "b" {
  bucket = "creatings3"
  acl    = "private"

  versioning {
    enabled = true
  }
}
```

vii. `Sudo terraform init`

```
ubuntu@ip-172-31-84-44:~/s3$ sudo terraform init

Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v4.40.0...
- Installed hashicorp/aws v4.40.0 (signed by HashiCorp)
```

viii. sudo terraform apply

```
ubuntu@ip-172-31-84-44: ~/s3
ubuntu@ip-172-31-84-44:~/s3$ sudo terraform apply

Terraform used the selected providers to generate the following execution plan.
Resource actions are indicated with the following symbols:
  + create

Terraform will perform the following actions:

# aws_s3_bucket.b will be created
+ resource "aws_s3_bucket" "b" {
  + acceleration_status = (known after apply)
  + acl                 = "private"
  + arn                = (known after apply)
  + bucket              = "creatings3"
  + bucket_domain_name = (known after apply)
  + bucket_regional_domain_name = (known after apply)
  + force_destroy       = false
  + hosted_zone_id      = (known after apply)
  + id                  = (known after apply)
  + object_lock_enabled = (known after apply)
  + policy              = (known after apply)
  + region              = (known after apply)
  + request_payer       = (known after apply)
```

ix. check the output.

