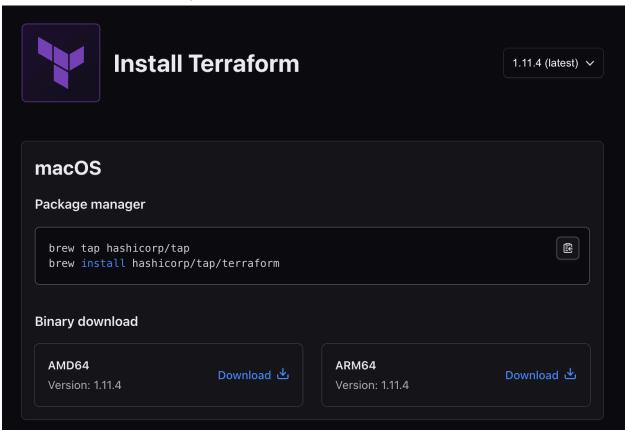
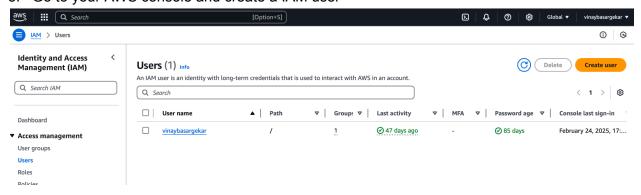
ASSIGNMENT NO.7

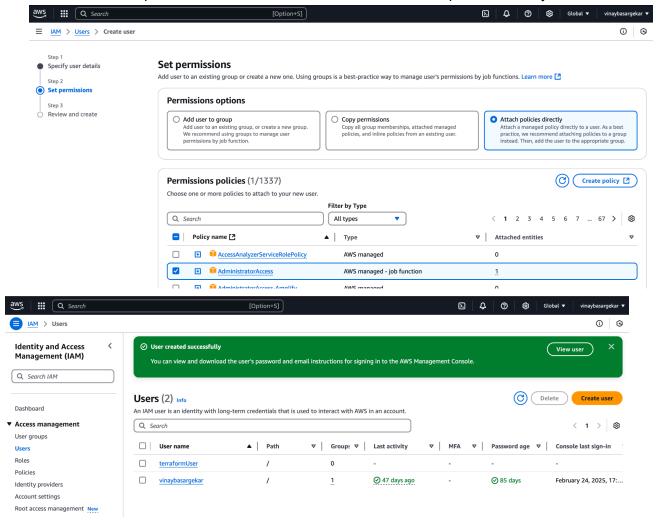
1. Install Terraform and verify with terraform -v



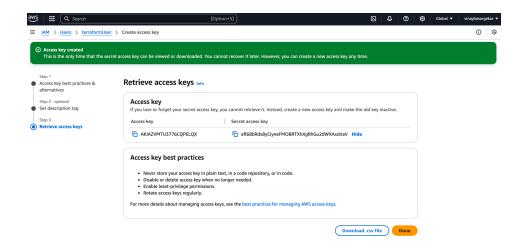
- 2. Install AWS CLI and configure with aws configure
 - brew install awscli
 - aws --version
- 3. Go to your AWS console and create a IAM user



4. Make sure to add permission for administartive access in "attach policies directly"



5. Navigate to Security Credentials and Generate a new Access Key



Access key: AKIAZVMTU3776CQPELQX

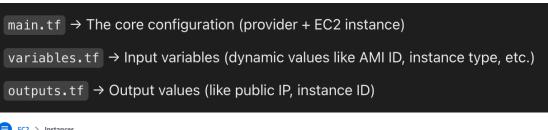
Secret access key: afl68bRdx8yClyneFMOBRTXhXgRhGu2dWXAxdnaV

6. Configure AWS CLI using aws configure

```
vinaybasargekar@Vinays-MacBook-Air ~ % aws configure

AWS Access Key ID [None]: AKIAZVMTU3776CQPELQX
AWS Secret Access Key [None]: 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
Default region name [None]:
Default output format [None]: json
```

7. Create the Terraform Working Directory and Files





```
variable "region" {
  description = "AWS region"
  type
             = string
  default
            = "us-east-1"
variable "ami_id" {
 description = "AMI ID for EC2"
  type
             = string
variable "instance_type" {
  description = "EC2 instance type"
  type
             = string
  default
             = "t2.micro"
```

```
voutputs.tf
1 output "instance_id" {
2    description = "ID of the EC2 instance"
3    value = aws_instance.my_ec2.id
4  }
5
6 output "public_ip" {
7    description = "Public IP address of the EC2 i
8    value = aws_instance.my_ec2.public_ip
9  }
```

Initialize Terraform

```
vinaybasargekar@Vinays-MacBook-Air terraform-ec2-setup % terraform init

Initializing the backend...
Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v4.67.0

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.

If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.
```

9. Plan terraform

```
vinaybasargekar@Vinays-MacBook-Air terraform-ec2-setup % terraform plan
Terraform used the selected providers to generate the following execution plan. Resource actions ar
  + create
Terraform will perform the following actions:
  # aws_instance.my_ec2 will be created
  + resource "aws_instance" "my_ec2" {
                                             = "ami-00a929b66ed6e0de6"
      + ami
     + arn
                                             = (known after apply)
     + associate_public_ip_address
                                             = (known after apply)
     + availability_zone
                                             = (known after apply)
                                             = (known after apply)
      + cpu_core_count
      + cpu_threads_per_core
                                             = (known after apply)
      + disable_api_stop
                                             = (known after apply)
      + disable_api_termination
                                             = (known after apply)
```

10. Apply terraform

```
vinaybasargekar@Vinays-MacBook-Air terraform-ec2-setup % terraform apply
Terraform used the selected providers to generate the following execution plan. Resou
 + create
Terraform will perform the following actions:
 # aws_instance.my_ec2 will be created
  + resource "aws_instance" "my_ec2" {
                                          = "ami-00a929b66ed6e0de6"
     + ami
                                          = (known after apply)
     + ain = (known after apply)
+ associate_public_ip_address = (known after apply)
+ availability_zone = (known after apply)
+ cpu_core_count = (known after apply)
+ cpu_threads_per_core = (known after apply)
     + availability_zone
     + cpu_core_count
     + cpu_threads_per_core
                                      = (known after apply)
= (known after apply)
     + disable_api_stop
     + disable_api_termination
                                         = (known after apply)
     + ebs_optimized
     + get_password_data
                                         = false
     + host id
                                          = (known after apply)
Changes to Outputs:
   + instance id = (known after apply)
  + public ip = (known after apply)
Do you want to perform these actions?
   Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.
   Enter a value: yes
aws_instance.my_ec2: Creating...
aws_instance.my_ec2: Still creating... [10s elapsed]
aws_instance.my_ec2: Creation complete after 16s [id=i-029f2
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
Outputs:
instance_id = "i-029f2eef2535dd310"
public_ip = "54.242.17.51"
```

11. Check the instance running on AWS console

