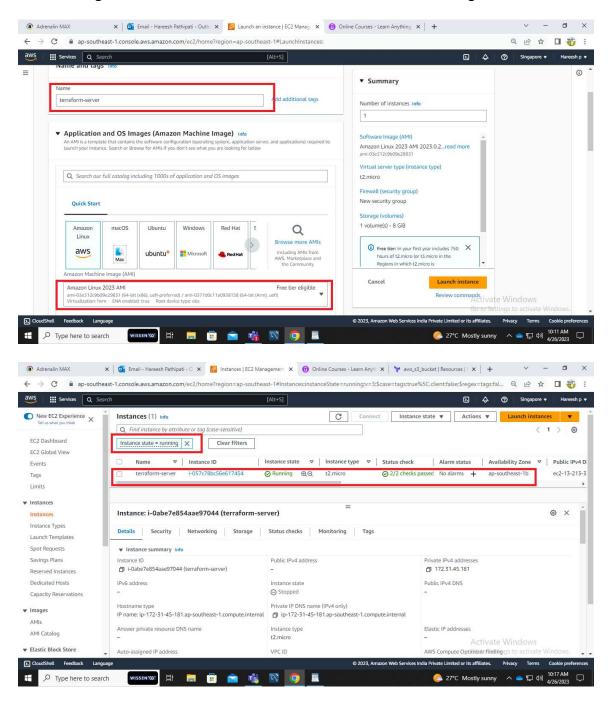
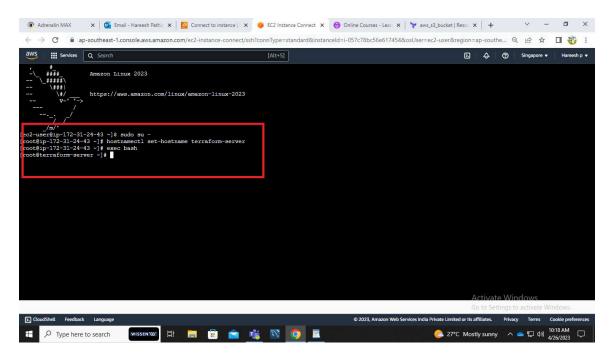
## creation of ec2 instances and s3 Bucket through terraform

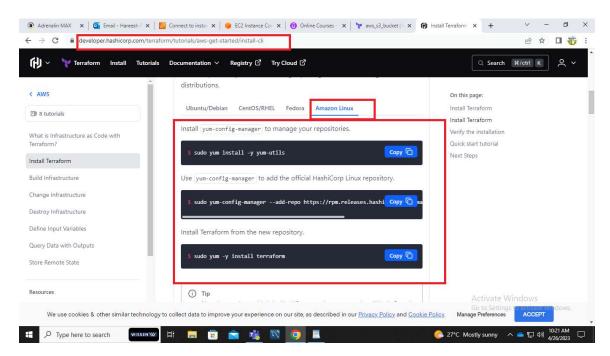
- Sign in to AWS Management Console
- Navigate to ec2 dashboard create an ec2 instance for installing Terraform



connect to terminal via ec2 connect

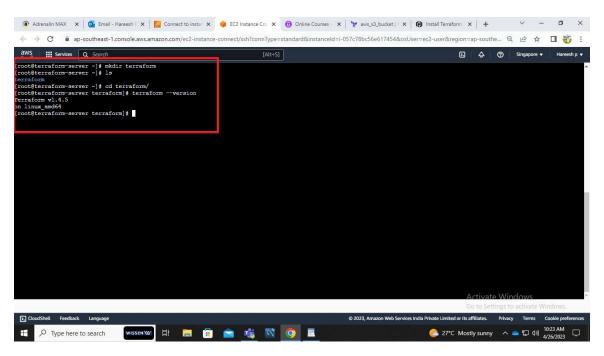


- open the Terraform.io For terraform installation in Amazon linux machine
- Follow the commands to install terraform in linux machine



• Confirm the installation of Terraform by checking the version.

create a directory for working of terraform



- Apply the terraform init initializes a working directory containing Terraform configuration files
- Create a main.tf ,variable.tf files inside the files we run the code to build an infrastructure .

## main.tf --

- 1. provider "aws" {
- 2. access\_key = var.aws\_access\_key
- 3. secret\_key = var.aws\_secret\_key
- 4. region = var.region
- **5.** }
- 6. resource "aws\_instance" "os" {
- 7. count = 2
- 8. ami = var.ami
- 9. instance\_type = var.instance\_type

```
10. availability_zone = var.availability_zone
   11. tags = {
   12. Name = "terraform-instance"
   13. }
   14. }
   15. resource "aws_s3_bucket" "terraform-bucket" {
   16. bucket = "s3-newterraform-bucket"
   17. tags = {
   18. Name = "terraform-bucket"
   19. Environment = "Dev"
   20. }
   21. }
variable.tf --
variable "aws_access_key" {
default = "AKIA5FBOF72JUGIIAOUM"
variable "aws_secret_key" {
default = "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"
variable "region" {
default = "ap-southeast-2"
variable "ami" {
 default = "ami-0074f30ddebf60493"
```

}

}

}

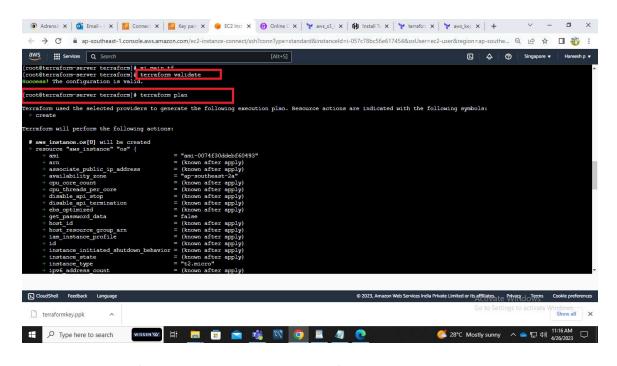
```
}
variable "instance_type" {
  default = "t2.micro"
}
variable "availability_zone" {
  default = "ap-southeast-2a"
}
ⓐ Adrenalin × | ⑤ Email - Ha × | ⑥ Connect to x | ⑥ VPC Mana × | ⑥ EC2 Insta × | ⑥ Online Co. x | 🍞 aws_33_bu × | ⑪ Install Terr × | 🍞 terraform × | + ✓ - 🗗 ×
  👉 🗲 🖰 🕯 ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceld=i-057c78bc56e617454&tosUser=ec2-user&region=ap-southe... 🍳 🖻 🧘 🛽 🞳 :
                                                                                                                                                               ot@terraform-server terraform]# terraform init
  nitializing the backend...
  nitializing provider plugins...
Finding latest version of hashicorp/aws...
Installing hashicorp/aws v4.64.0...
Installed hashicorp/aws v4.64.0 (signed by HashiCorp)
    raform has created a lock file .terraform.lock.hol to record the provide 
ections it made above. Include this file in your version control reposite 
that Terraform can quarantee to make the same selections by default when 
run "terraform init" in the future.
```

Apply terrform validate -it will Check whether the configuration is valid

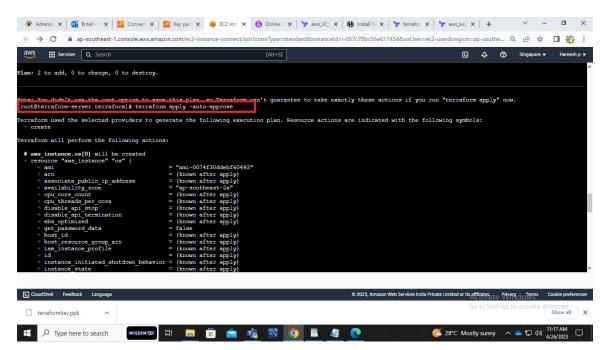
● 28°C Mostly sunny ヘ ■ 〒 ⑴ 11:10 AM □

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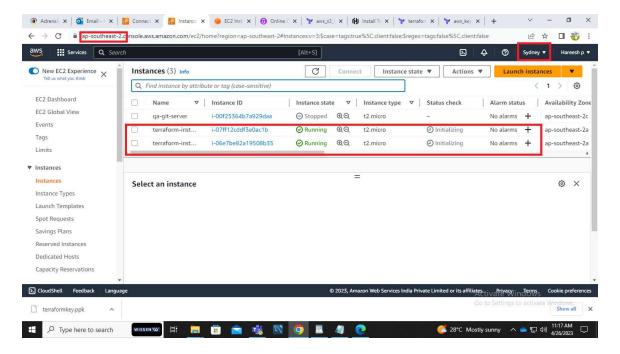
- Apply terraform fmt Reformat your configuration in the standard style
- Apply terraform plan Show changes required by the current configuration



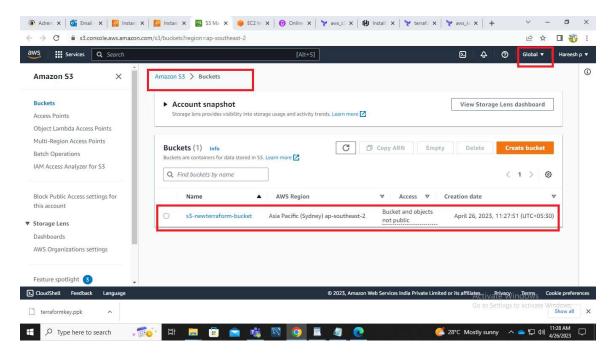
Apply terraform apply - Create or update infrastructure



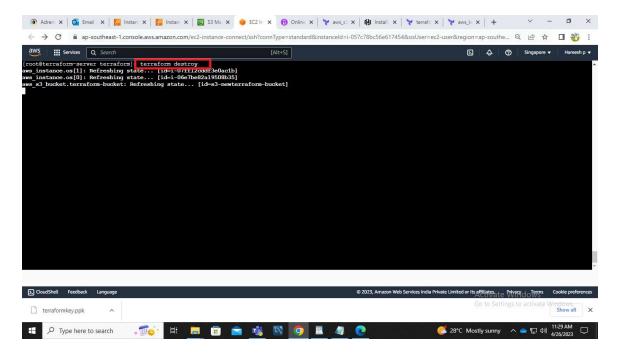
Navigate to ec2 Dash board and check the resources created or not



Navigate to s3 dash board check the resources



- Apply terraform destroy it will Destroy previously-created infrastructure
- In



verify the resources destroyed or not

