**Terraform file separation**

**Single file :**

provider "aws" {

region = "ap-south-1"

access\_key = "AKIA5FIMAEBUNCHUCTK3"

secret\_key = "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"

}

data "aws\_subnet" "selected" {

filter {

name = "tag:Name"

values = [var.subnet\_name]

}

}

resource "aws\_instance" "ec2\_1" {

ami = "ami-01a4f99c4ac11b03c"

instance\_type = "t2.micro"

subnet\_id = data.aws\_subnet.selected.id

tags = {

Name = " hello"

}

}

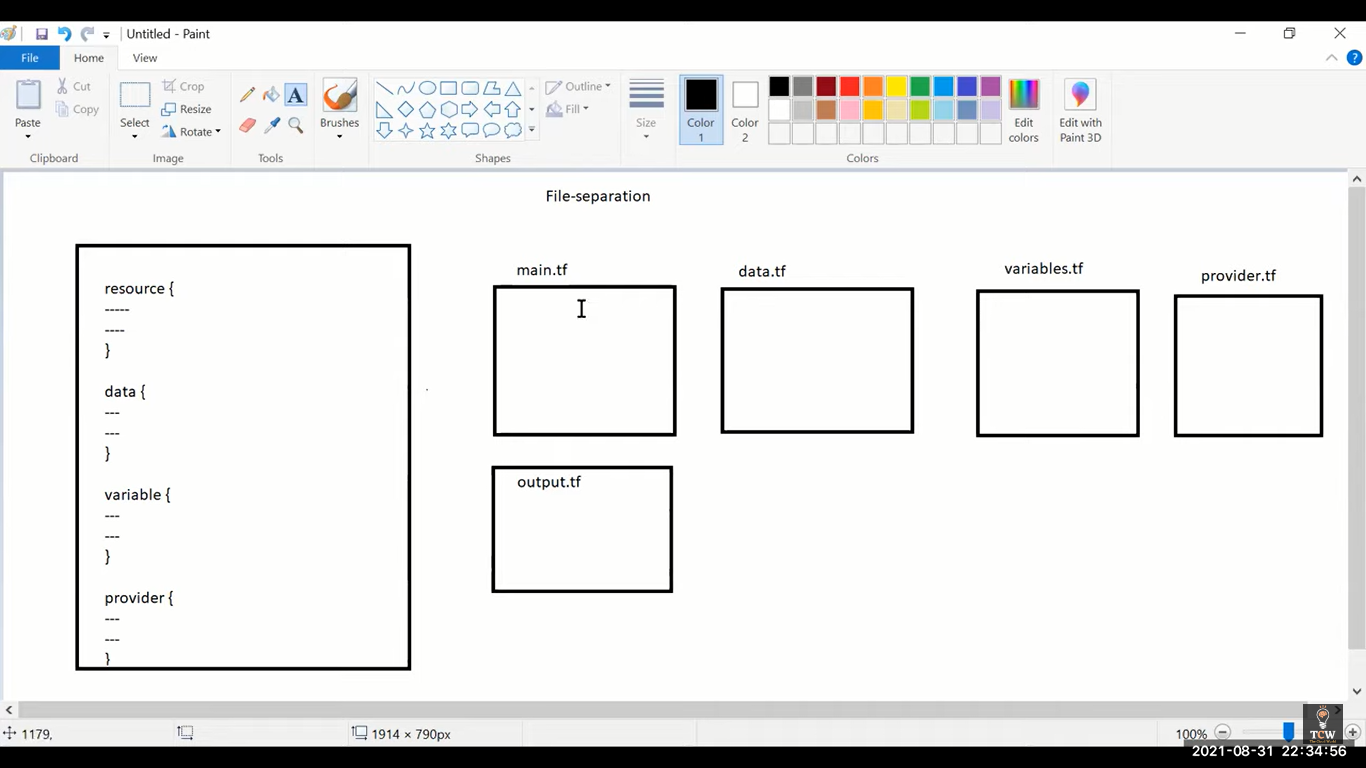
variable "subnet\_name" {

description = "subnet var"

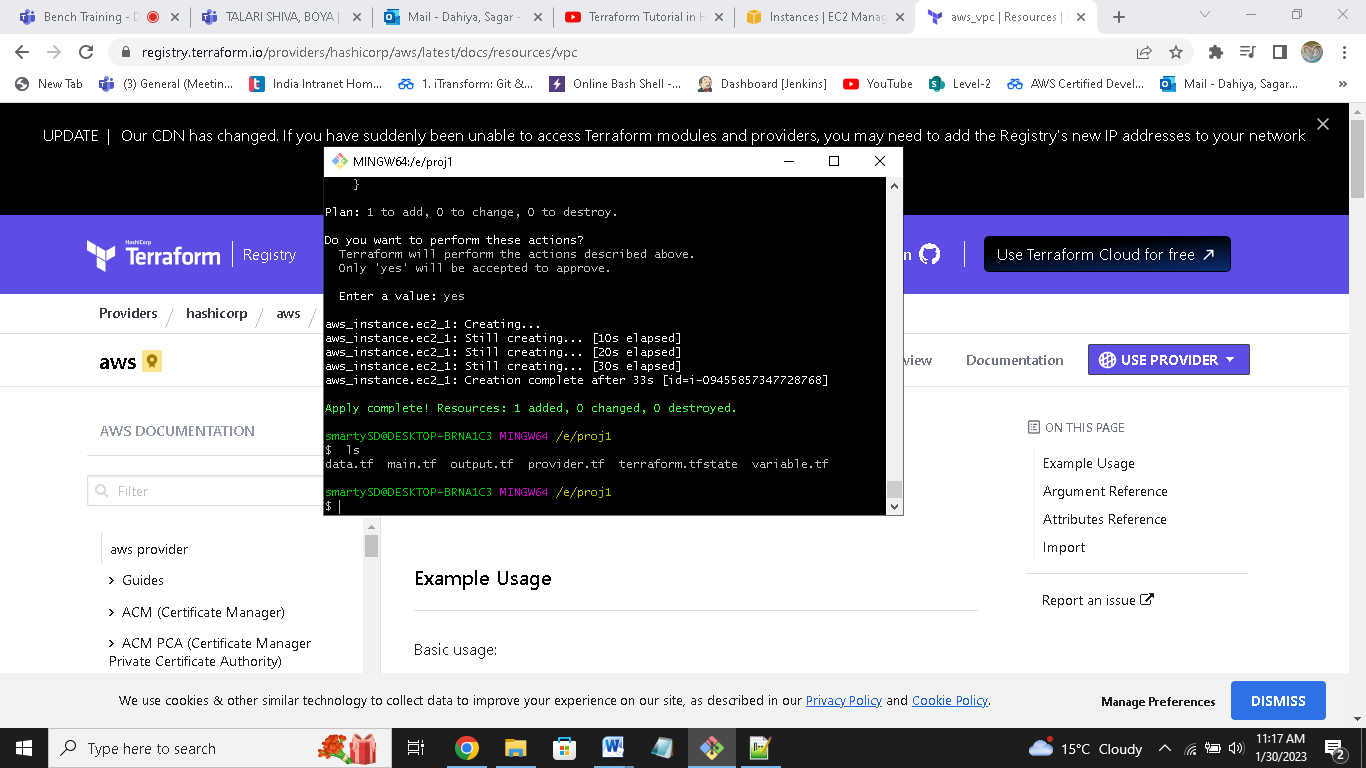
type = string

default = “subnet\_1”

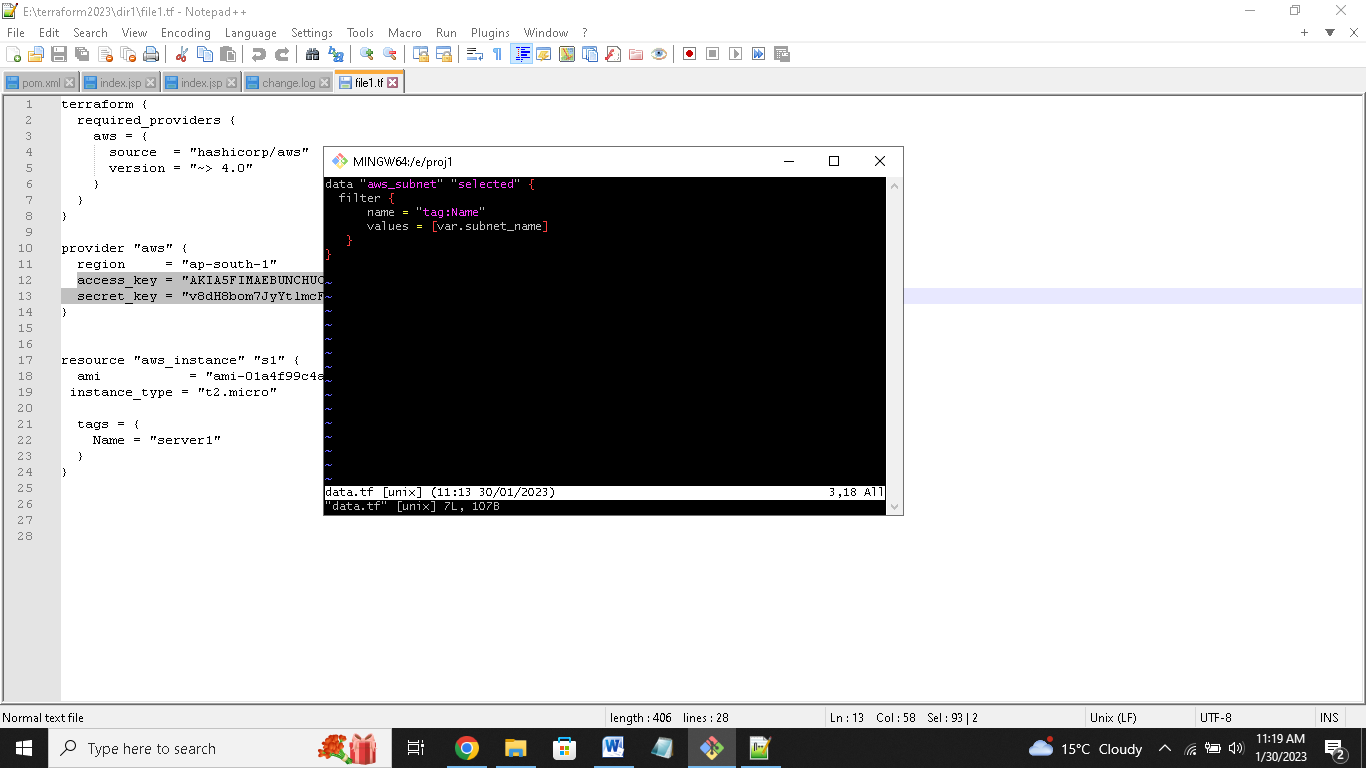
}

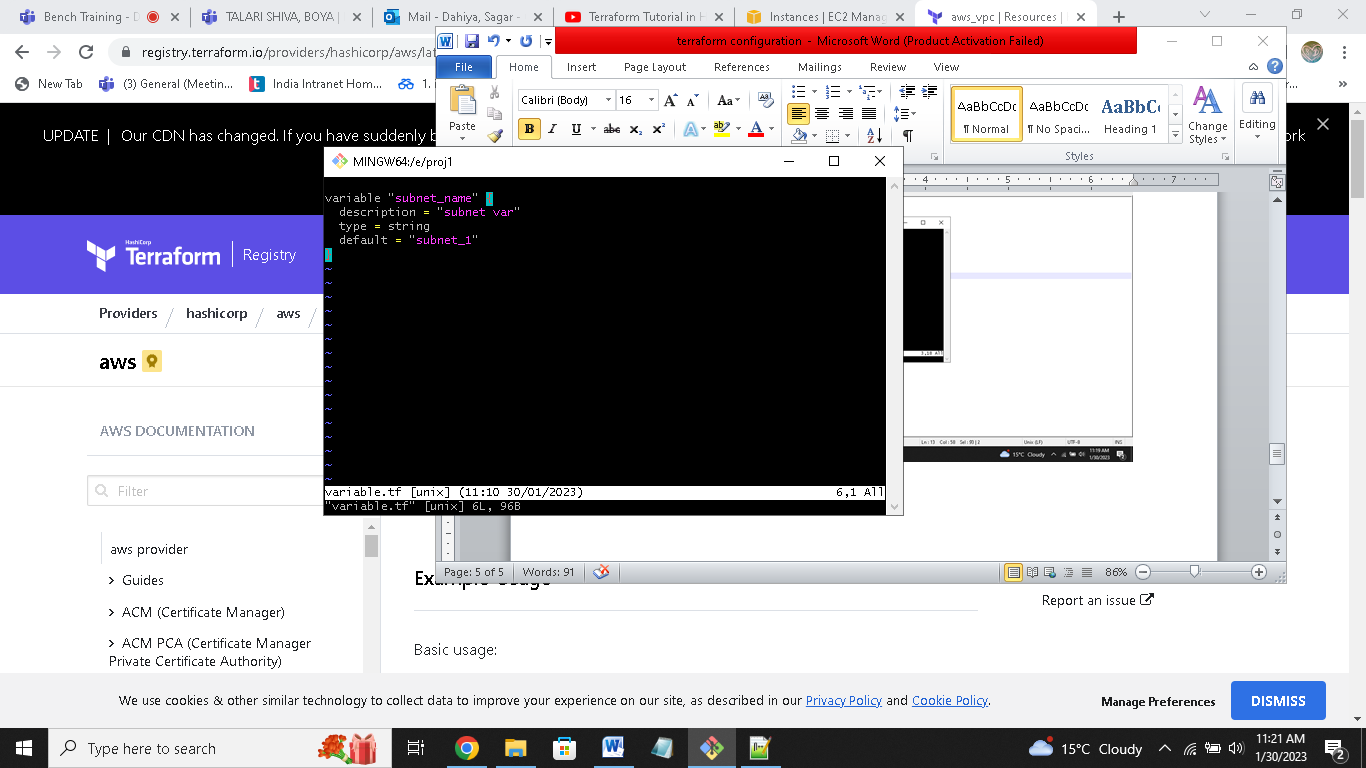
****

**Instead of 1 large file,we make 5 diff file for diff pur[pose.**

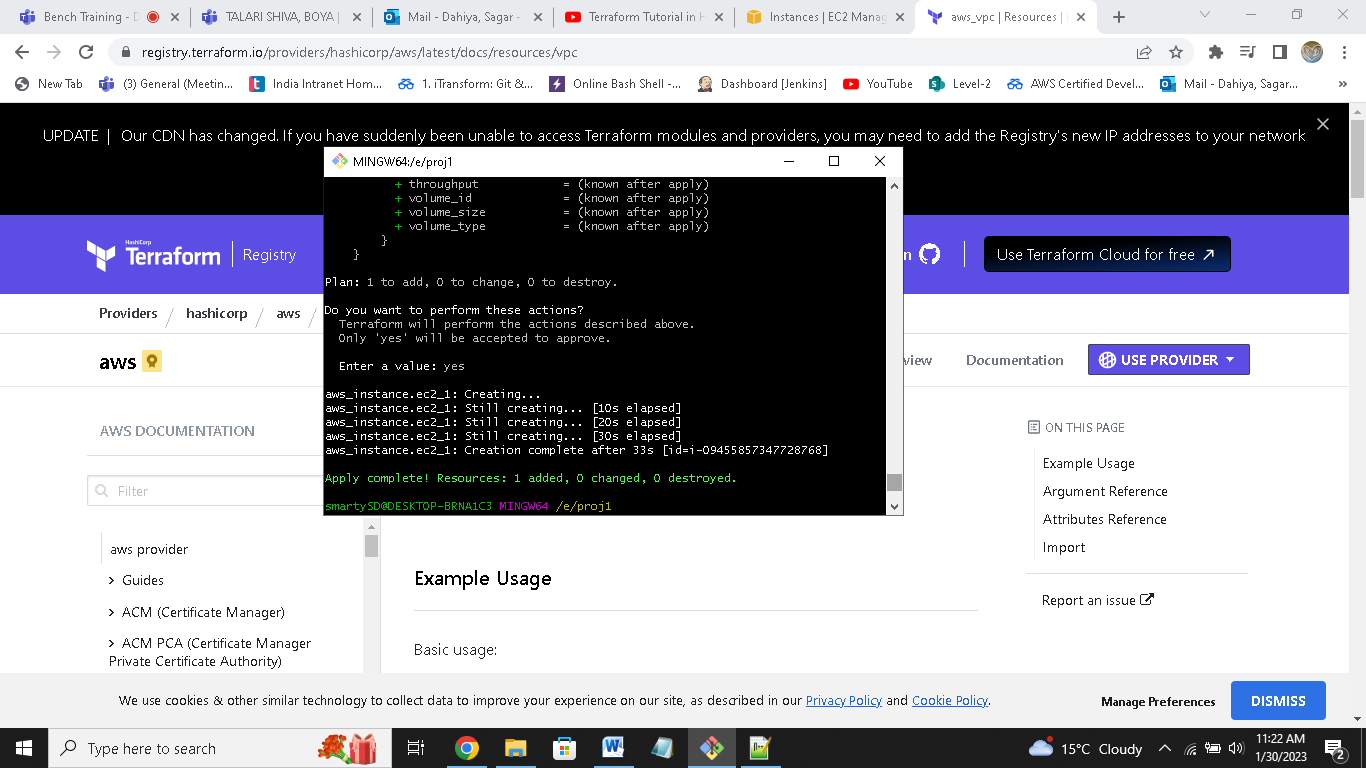


**Now paste code in diff ,tf files acc to names.**

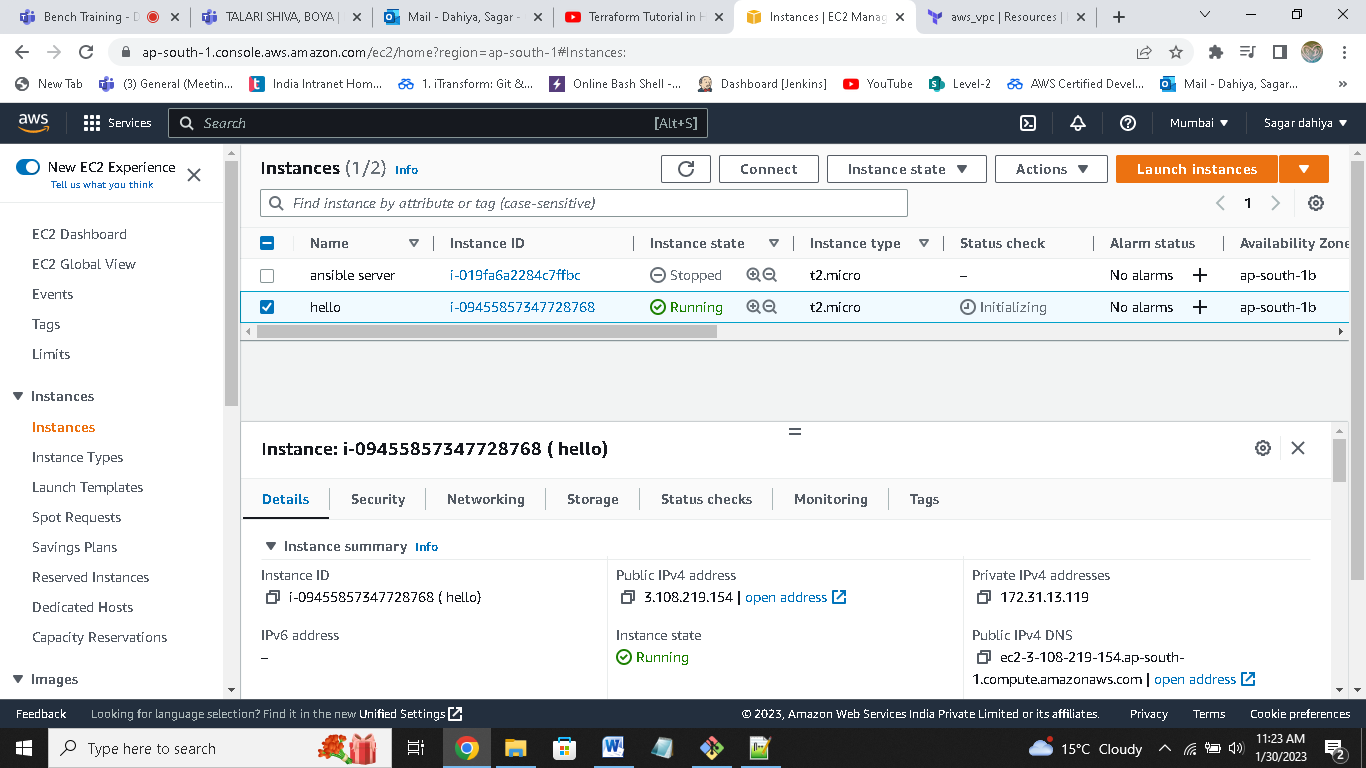




**Now run terraform plan and terraform apply**



**Now check aws console,it will create a ec2instance in given vpc and subnet**



**Now make a “output.tf” file:**

**output "ec2\_arn" {**

**value = aws\_instance.ec2\_1.arn**

**}**

**output "ec2\_instance\_state" {**

**value = aws\_instance.ec2\_1.instance\_state**

**}**

**output "ec2\_public\_dns" {**

**value = aws\_instance.ec2\_1.public\_dns**

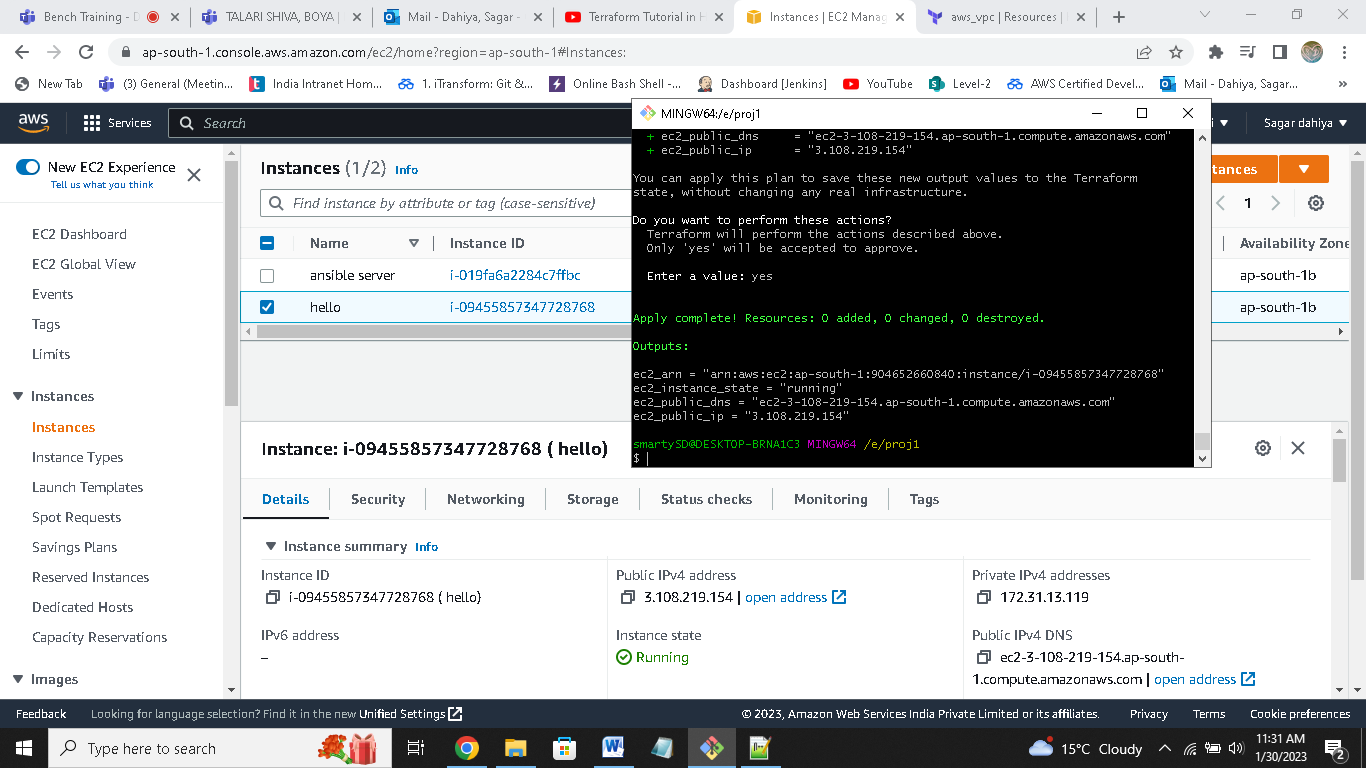
**}**

**output "ec2\_public\_ip" {**

**value = aws\_instance.ec2\_1.public\_ip**

**}**

**Now again run terraform apply**



**It will show**

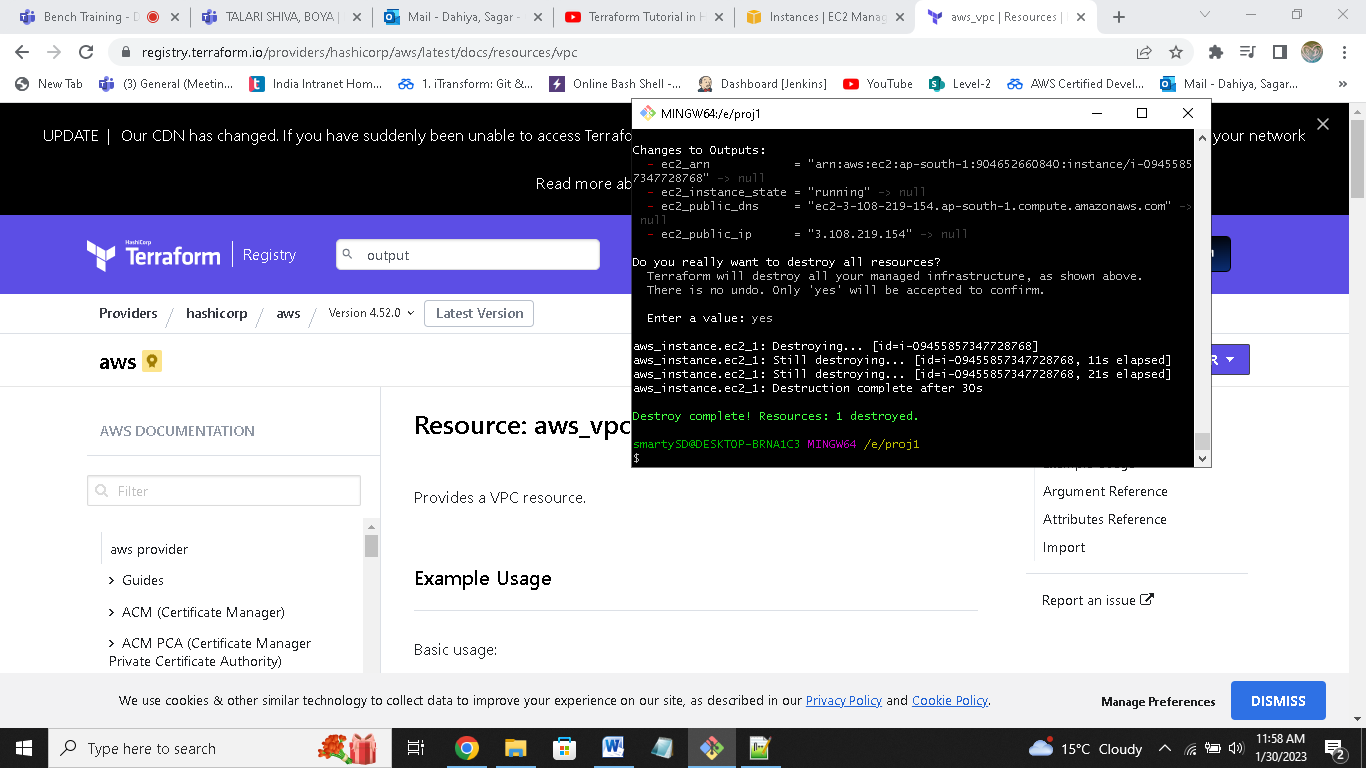
**ec2\_arn = "arn:aws:ec2:ap-south-1:904652660840:instance/i-09455857347728768"**

**ec2\_instance\_state = "running"**

**ec2\_public\_dns = "ec2-3-108-219-154.ap-south-1.compute.amazonaws.com"**

**ec2\_public\_ip = "3.108.219.154"**

**now run “terraform destroy”**



**terraform.tf state file :**

**it store all works we done on aws.Whem we run again,it first check tf state file and then make changes.**

**#it also have tfstate backup file,if we delete backup file,terraform forget everything.**