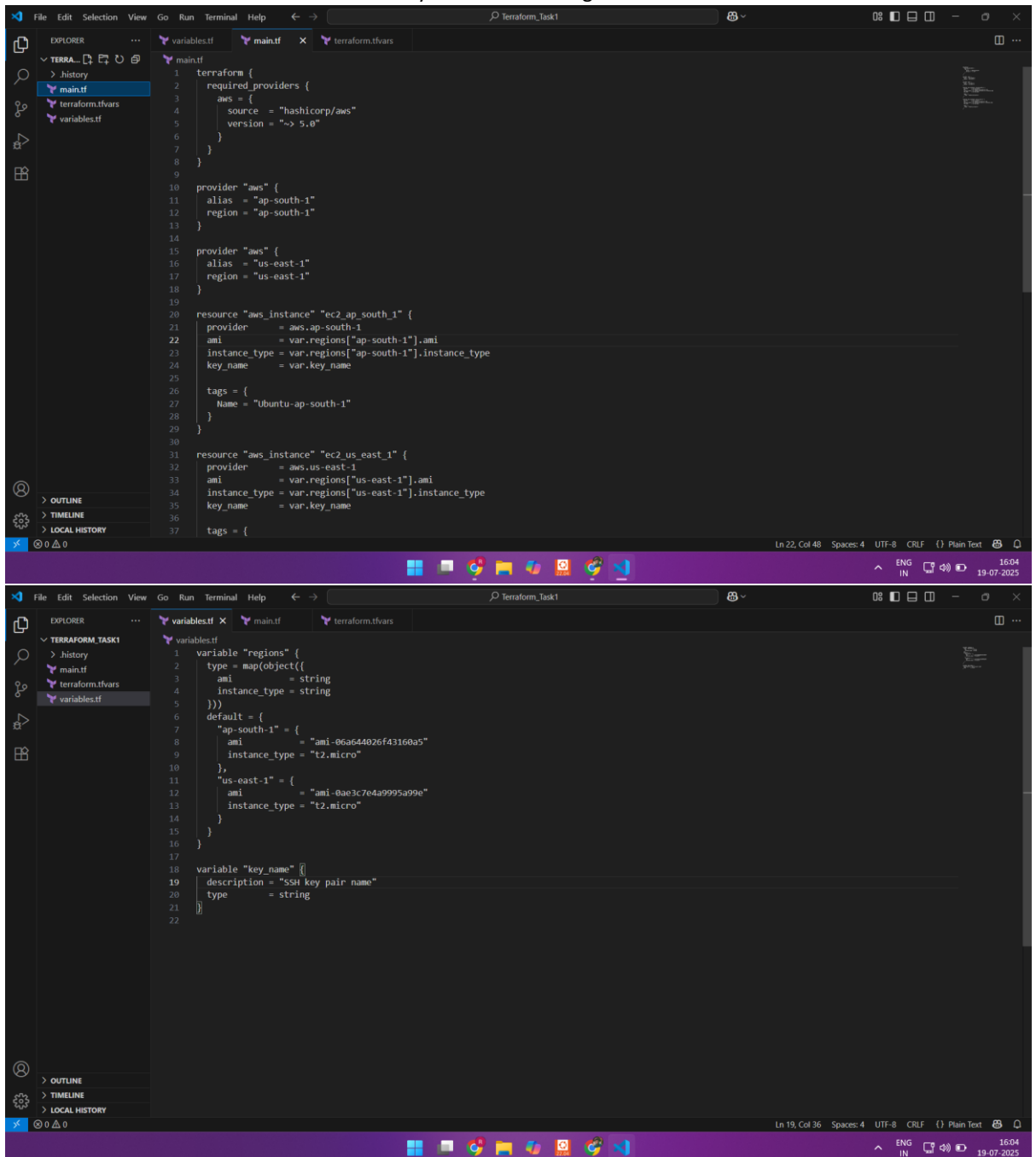


Launch Linux EC2 instances in two regions using a single Terraform file.

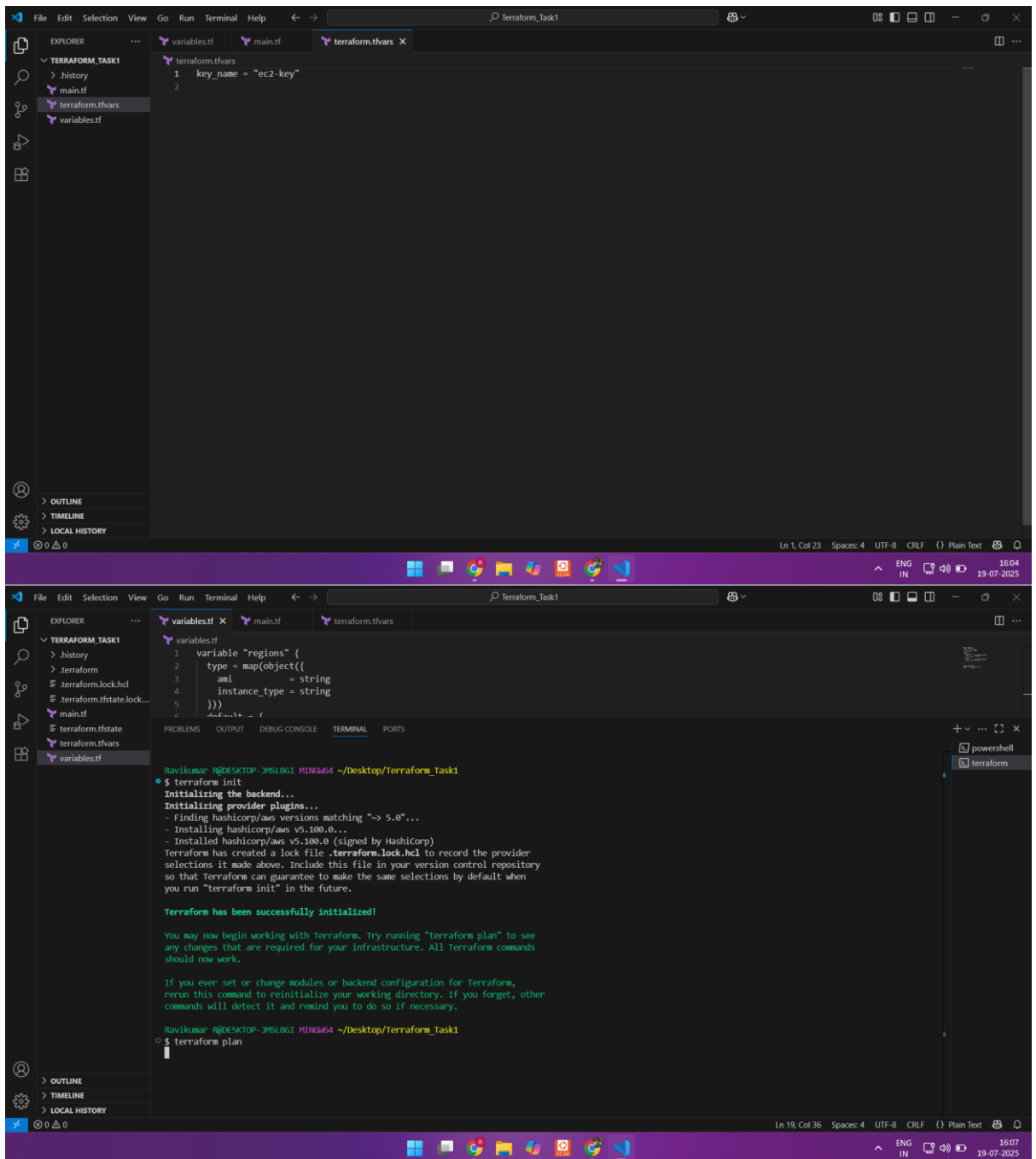
1. First I created a one folder in local & opened by vs code then creating 3 terraform files within folder name as main.tf, variables.tf, terraform.tfvars. in main.tf main code will be write which source, verisons, regions, instance type, key name etc.. so in main.tf I have call the variable for key name to terraform.tfvars, then calling the keypair both region in common key name so I called.
2. In region I put ap-south-1, us-east-1, these 2 regions need to run ec2 instance through from terraform code.
3. In variable.tf file, I have declared 2 instances ami id and machine. I used ubuntu machine and ami id I have taken from www.cloud-images.ubuntu.com/locator/ website. Then all files setted up I have opened a Terminal and run the Terraform init for initiaizing, then terraform plan to show what will be created, then terraform apply for it will be create ec2 instances.
4. Then check in aws console both regions instance running or not. After that if we want to delete both instance means we can use terraform destroy command through from code it will be delete.

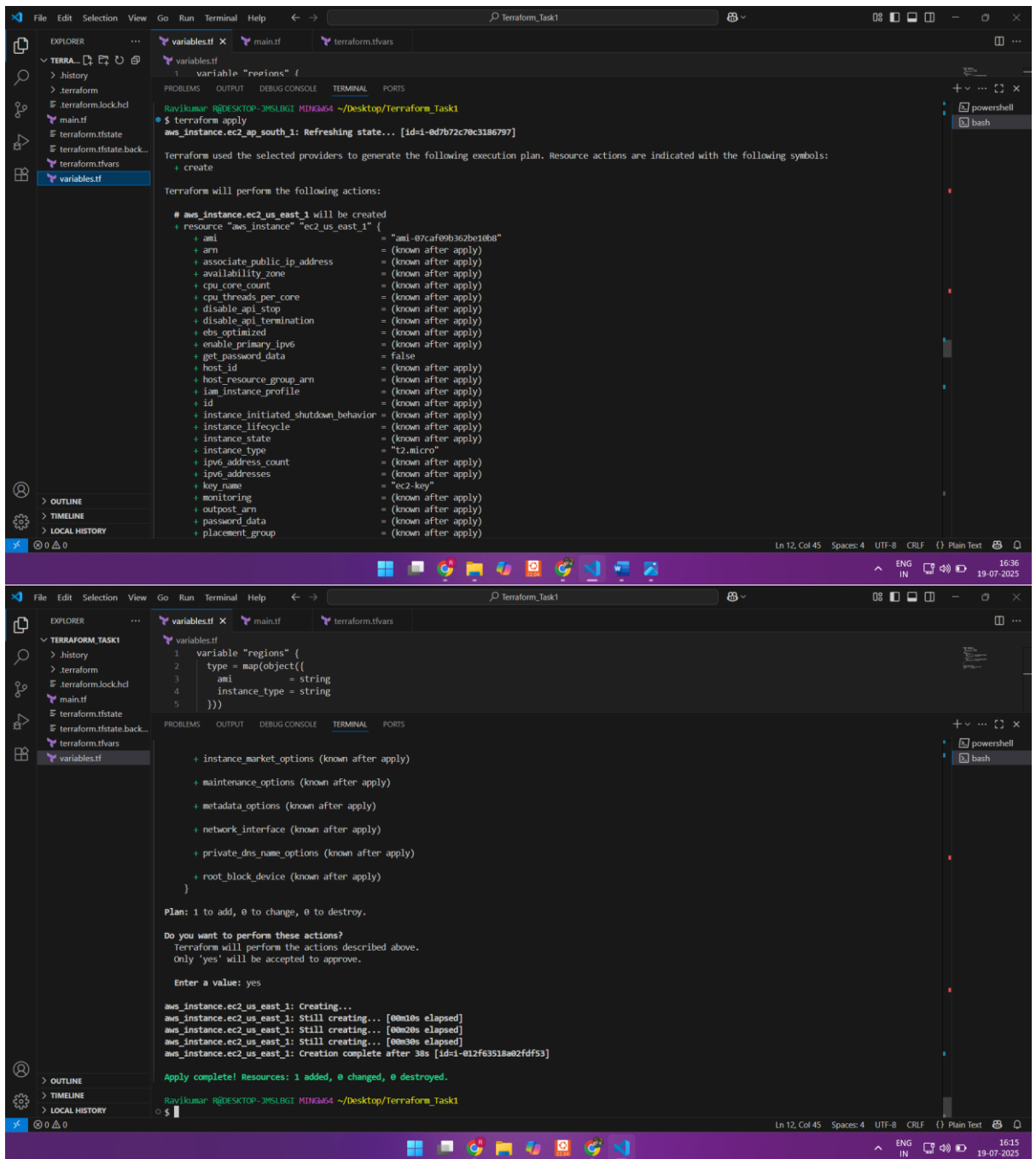


The image shows two screenshots of a Visual Studio Code editor window. The top screenshot displays the `main.tf` file, which defines the Terraform configuration for launching EC2 instances in two regions: `ap-south-1` and `us-east-1`. The configuration includes the required providers, provider settings for each region, and resource definitions for `aws_instance` in both regions. The bottom screenshot displays the `variables.tf` file, which defines the variables for the regions, including the AMI ID and instance type for each region, and a variable for the key name.

```
main.tf
1 terraform {
2   required_providers {
3     aws = {
4       source = "hashicorp/aws"
5       version = "~> 5.0"
6     }
7   }
8 }
9
10 provider "aws" {
11   alias = "ap-south-1"
12   region = "ap-south-1"
13 }
14
15 provider "aws" {
16   alias = "us-east-1"
17   region = "us-east-1"
18 }
19
20 resource "aws_instance" "ec2_ap_south_1" {
21   provider = aws.ap-south-1
22   ami = var.regions["ap-south-1"].ami
23   instance_type = var.regions["ap-south-1"].instance_type
24   key_name = var.key_name
25
26   tags = {
27     Name = "Ubuntu-ap-south-1"
28   }
29 }
30
31 resource "aws_instance" "ec2_us_east_1" {
32   provider = aws.us-east-1
33   ami = var.regions["us-east-1"].ami
34   instance_type = var.regions["us-east-1"].instance_type
35   key_name = var.key_name
36
37   tags = {
```

```
variables.tf
1 variable "regions" {
2   type = map(object({
3     ami = string
4     instance_type = string
5   }))
6   default = {
7     "ap-south-1" = {
8       ami = "ami-06a644026f43160a5"
9       instance_type = "t2.micro"
10     },
11     "us-east-1" = {
12       ami = "ami-0ae3c7e4a9995a99e"
13       instance_type = "t2.micro"
14     }
15   }
16 }
17
18 variable "key_name" {
19   description = "SSH key pair name"
20   type = string
21 }
```





Instances | EC2 | us-east-1

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceState=running

Search [Alt+S]

United States (N. Virginia)

Ravikumar

EC2

Instances

EC2

Dashboard

EC2 Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Instances (1) Info

Find Instance by attribute or tag (case-sensitive)

Instance state = running

Clear filters

Connect

Instance state

Actions

Launch instances

All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public I
Ubuntu-us-east-1	i-012f63518a02fdf53	Running	t2.micro	Initializing	View alarms +	us-east-1d	ec2-13-

Select an instance

CloudShell

Feedback

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ENG IN 16:15 19-07-2025

Instances | EC2 | ap-south-1

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:instanceState=running

Search [Alt+S]

Asia Pacific (Mumbai)

Ravikumar

EC2

Instances

EC2

Dashboard

EC2 Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

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Dedicated Hosts

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Instances (1) Info

Find Instance by attribute or tag (case-sensitive)

Instance state = running

Clear filters

Connect

Instance state

Actions

Launch instances

All states

Last updated less than a minute ago

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Ubuntu-ap-south-1	i-0d7b72c70c3186797	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b

Select an instance

CloudShell

Feedback

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