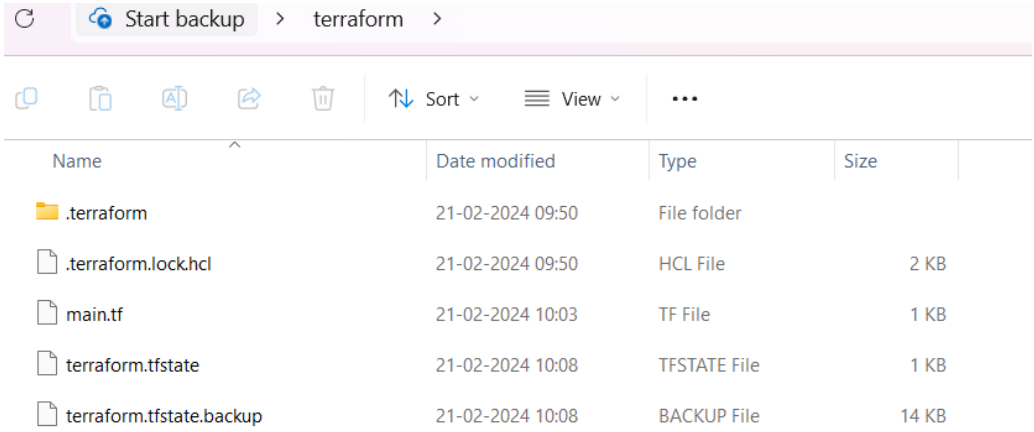
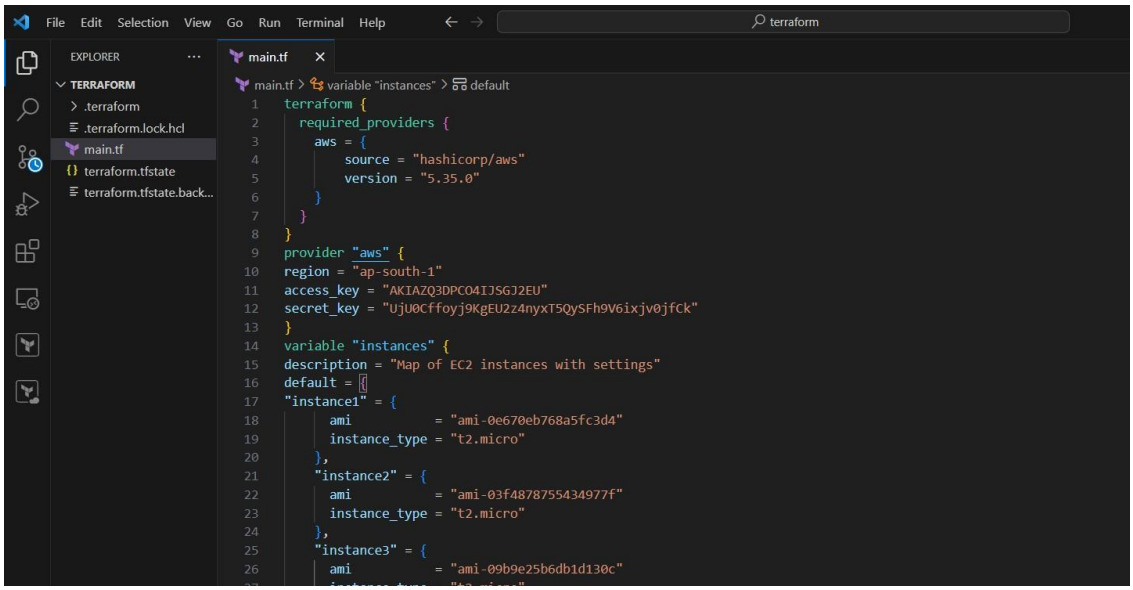
Lab Exercise 9– Creating Multiple EC2 Instances with for each in Terraform Objective:

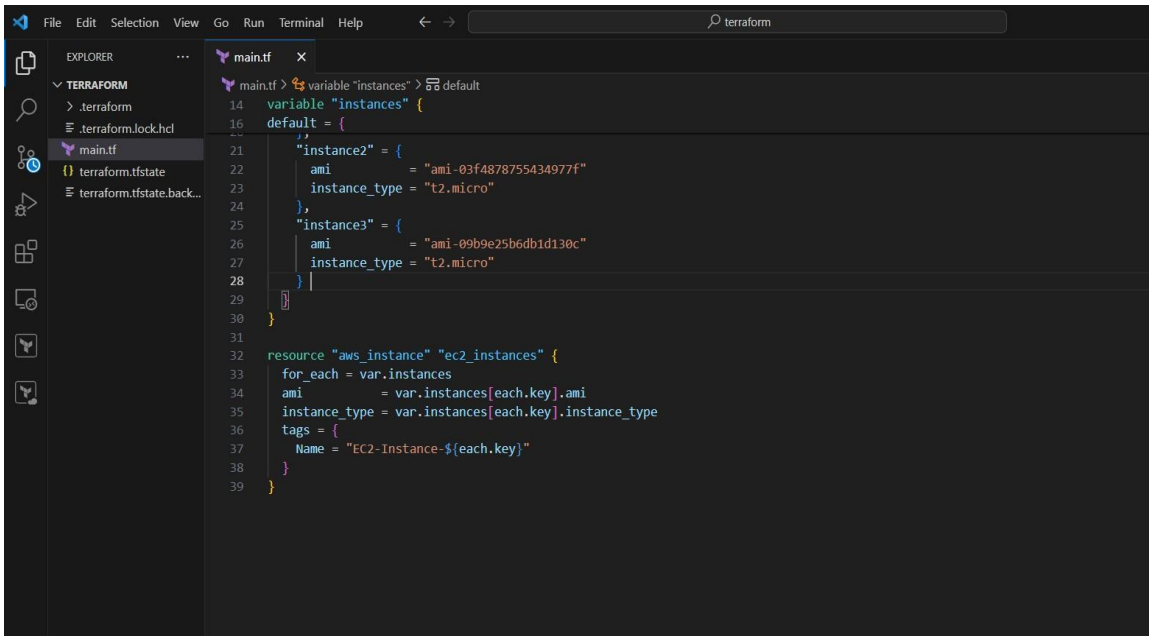
1. Create a Terraform Directory:

- Create Terraform Configuration Files:

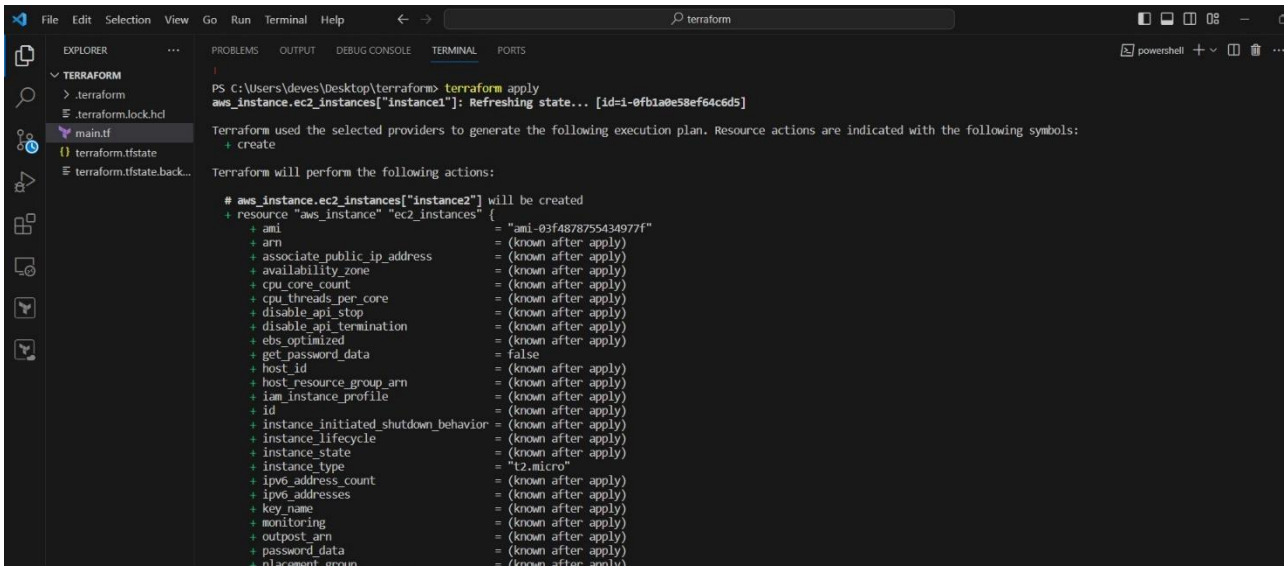


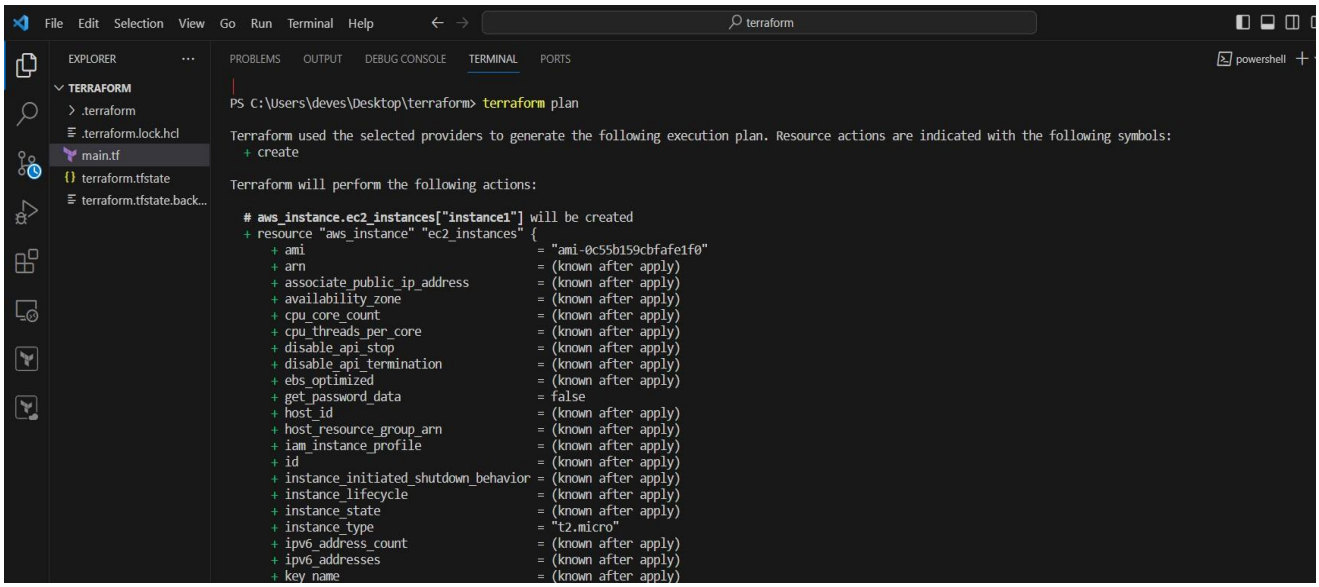
- Create a file named main.tf:

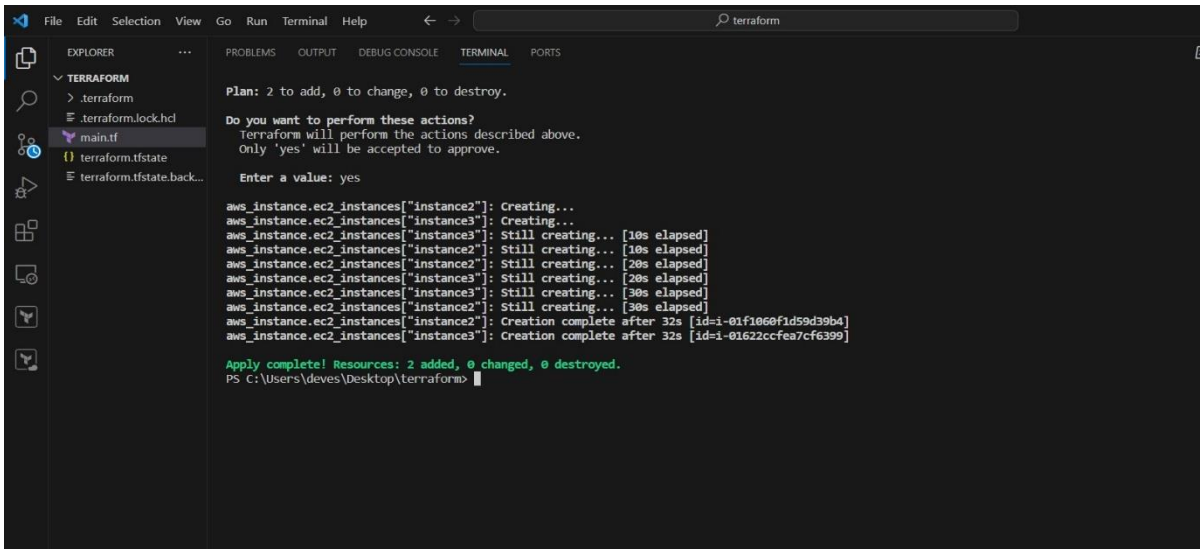




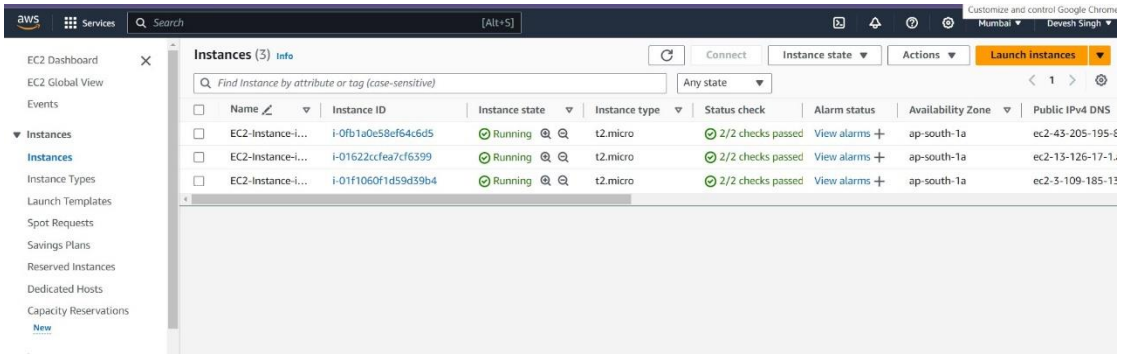
2. Initialize and Apply:



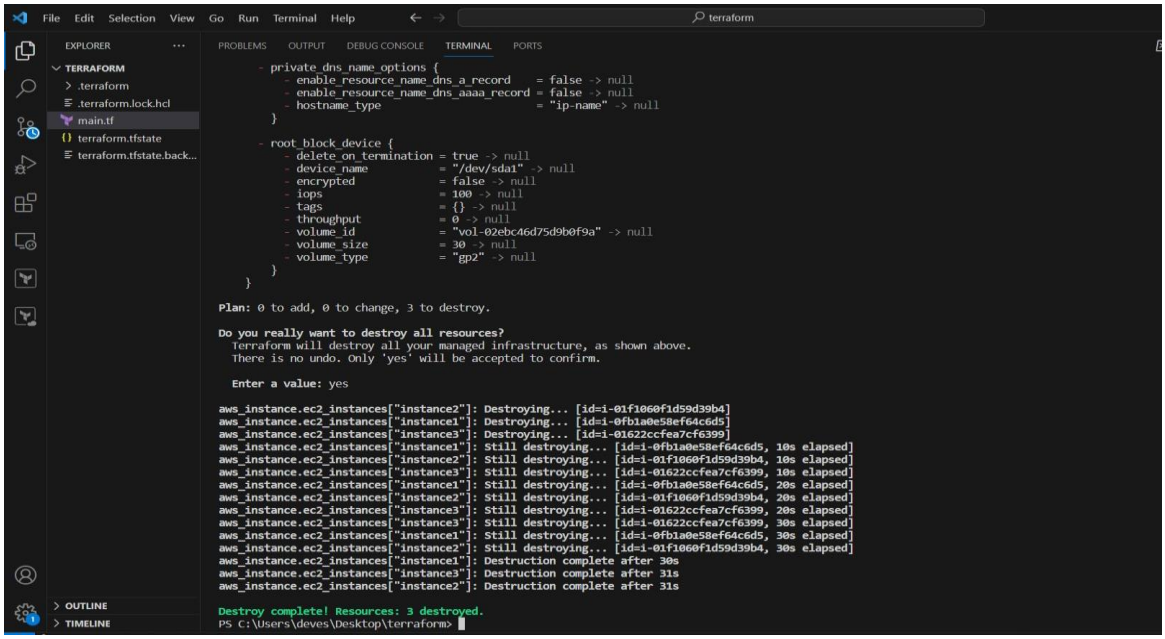

File Edit Selection View Go Run Terminal Help
terraform
EXPLORER
TERRAFORM
.terraform
.terraform.lock.hcl
main.tf
terraform.tfstate
terraform.tfstate.back...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
PS C:\Users\deves\Desktop\terraform> terraform plan
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
+ create
Terraform will perform the following actions:
# aws_instance.ec2_instances["instance1"] will be created
+ resource "aws_instance" "ec2_instances" {
+ ami = "ami-0c55b159cbfafe1f0"
+ arn = (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)
+ disable_api_stop = (known after apply)
+ disable_api_termination = (known after apply)
+ ebs_optimized = (known after apply)
+ get_password_data = false
+ host_id = (known after apply)
+ host_resource_group_arn = (known after apply)
+ iam_instance_profile = (known after apply)
+ id = (known after apply)
+ instance_initiated_shutdown_behavior = (known after apply)
+ instance_lifecycle = (known after apply)
+ instance_state = (known after apply)
+ instance_type = "t2.micro"
+ ipv6_address_count = (known after apply)
+ ipv6_addresses = (known after apply)
+ key_name = (known after apply)

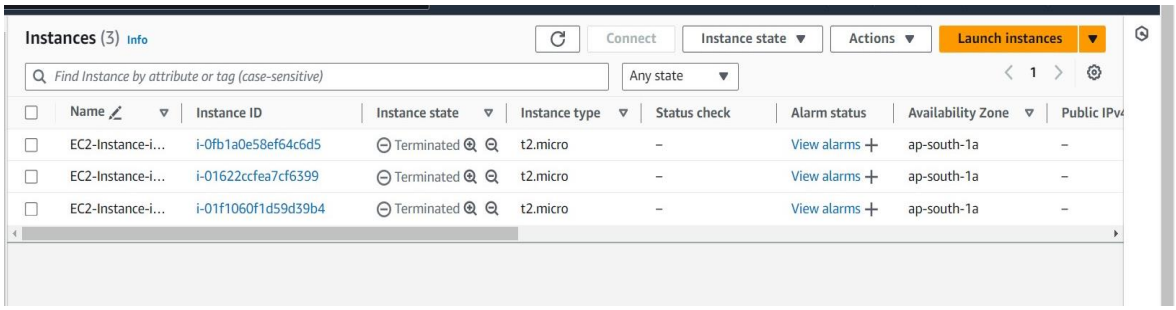

File Edit Selection View Go Run Terminal Help
terraform
EXPLORER
TERRAFORM
.terraform
.terraform.lock.hcl
main.tf
terraform.tfstate
terraform.tfstate.back...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Plan: 2 to add, 0 to change, 0 to destroy.
Do you want to perform these actions?
Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.
Enter a value: yes
aws_instance.ec2_instances["instance2"]: Creating...
aws_instance.ec2_instances["instance3"]: Creating...
aws_instance.ec2_instances["instance3"]: Still creating... [10s elapsed]
aws_instance.ec2_instances["instance2"]: Still creating... [10s elapsed]
aws_instance.ec2_instances["instance2"]: Still creating... [20s elapsed]
aws_instance.ec2_instances["instance3"]: Still creating... [20s elapsed]
aws_instance.ec2_instances["instance3"]: Still creating... [30s elapsed]
aws_instance.ec2_instances["instance2"]: Still creating... [30s elapsed]
aws_instance.ec2_instances["instance2"]: Creation complete after 32s [id=i-01f1060f1d59d39b4]
aws_instance.ec2_instances["instance3"]: Creation complete after 32s [id=i-01622ccfea7cf6399]
Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
PS C:\Users\deves\Desktop\terraform>

4. Update Instance Configuration:



5. Clean Up:




Instances (3) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Any state
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv
EC2-Instance-i...
i-0fb1a0e58ef64c6d5
Terminated
t2.micro
–
View alarms
ap-south-1a
–
EC2-Instance-i...
i-01622ccfea7cf6399
Terminated
t2.micro
–
View alarms
ap-south-1a
–
EC2-Instance-i...
i-01f1060f1d59d39b4
Terminated
t2.micro
–
View alarms
ap-south-1a
–