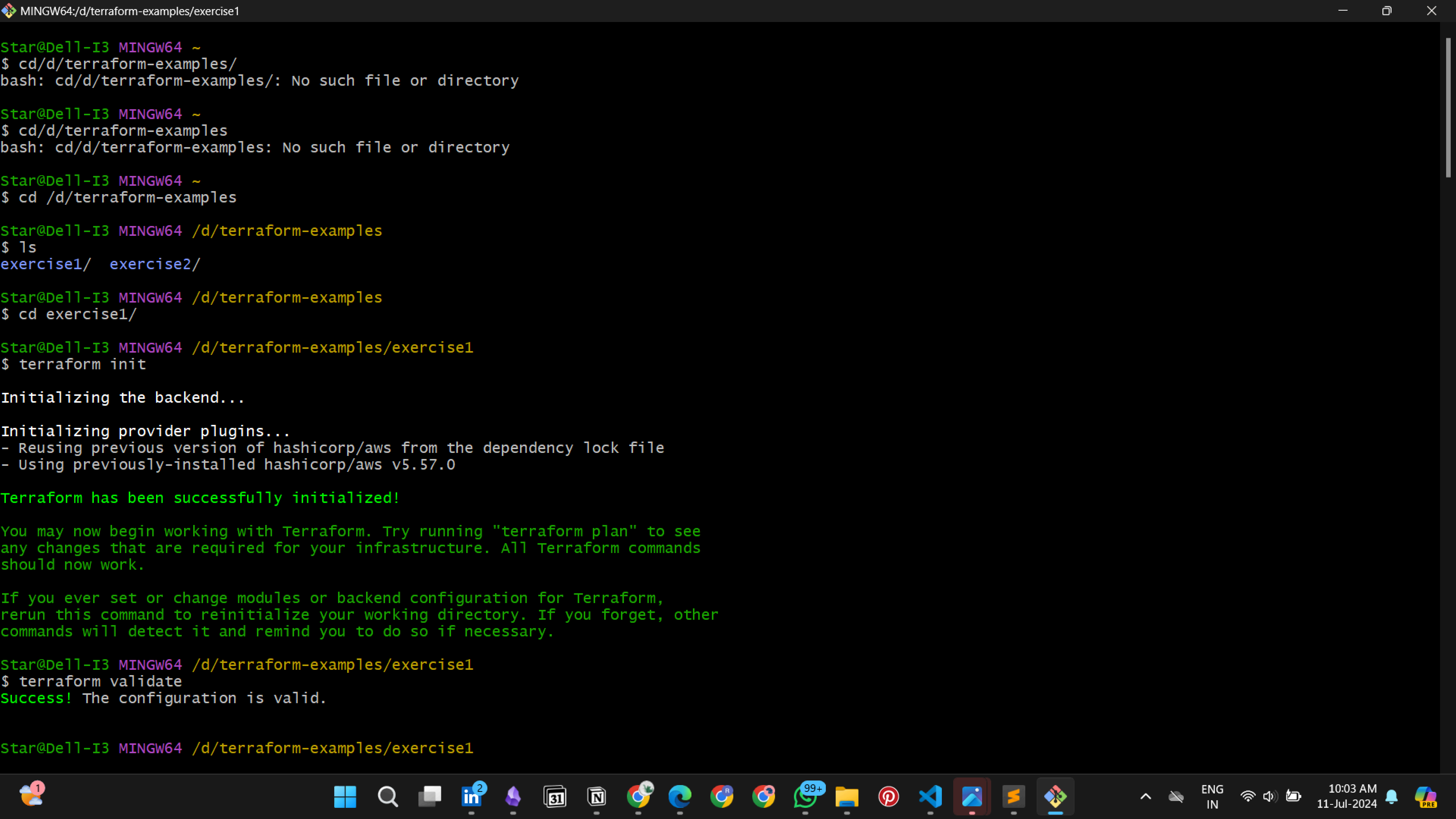
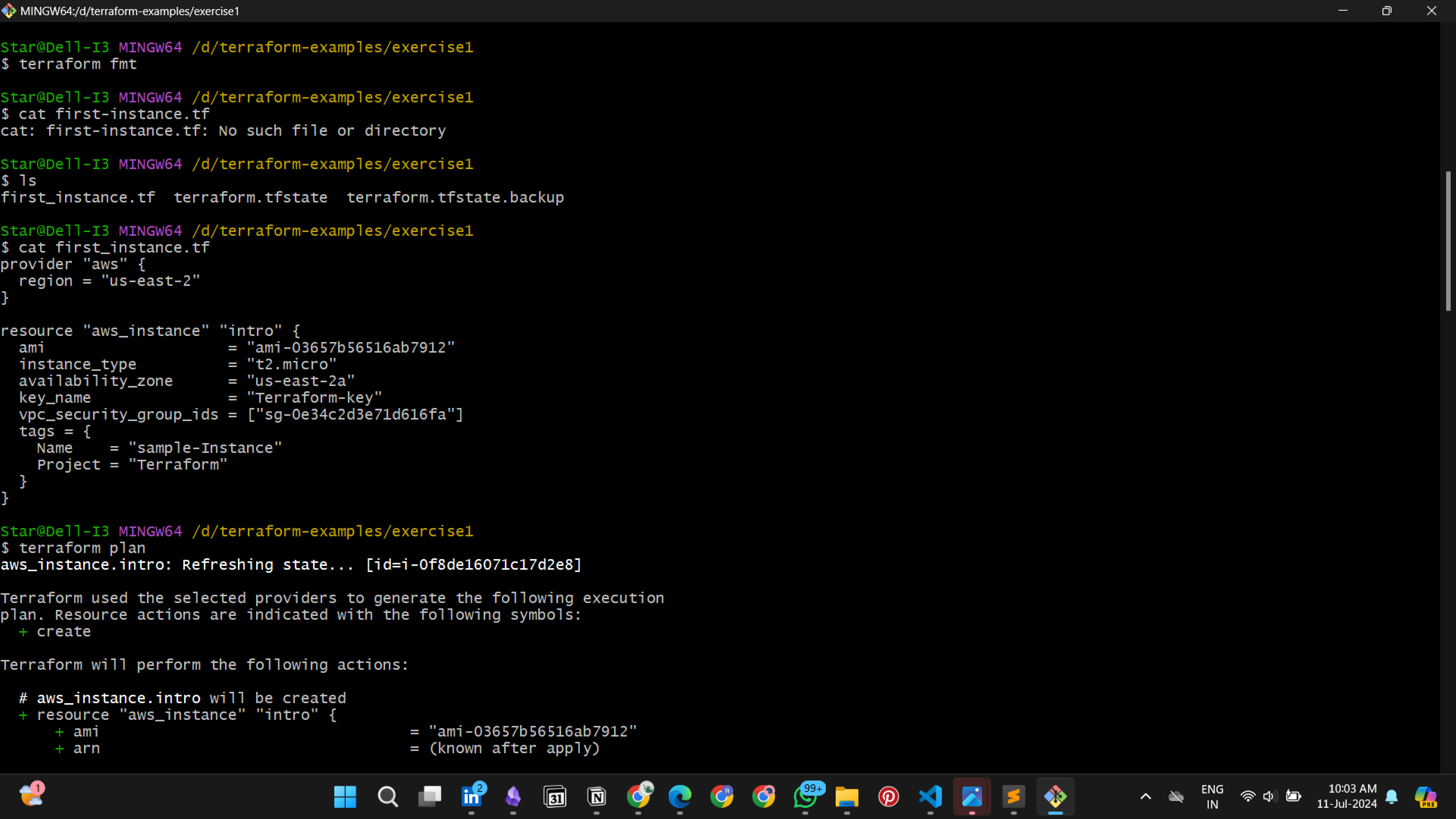
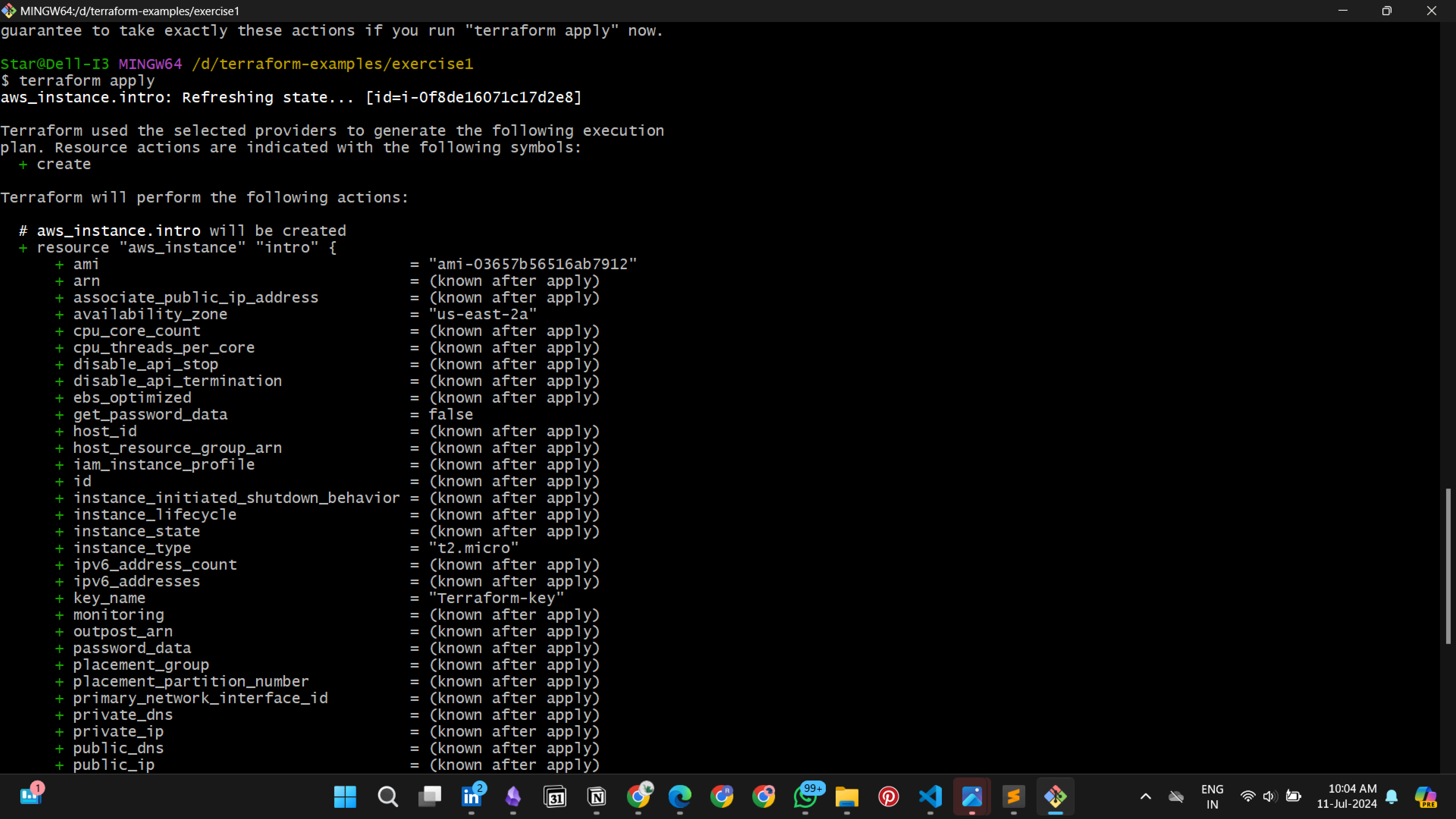


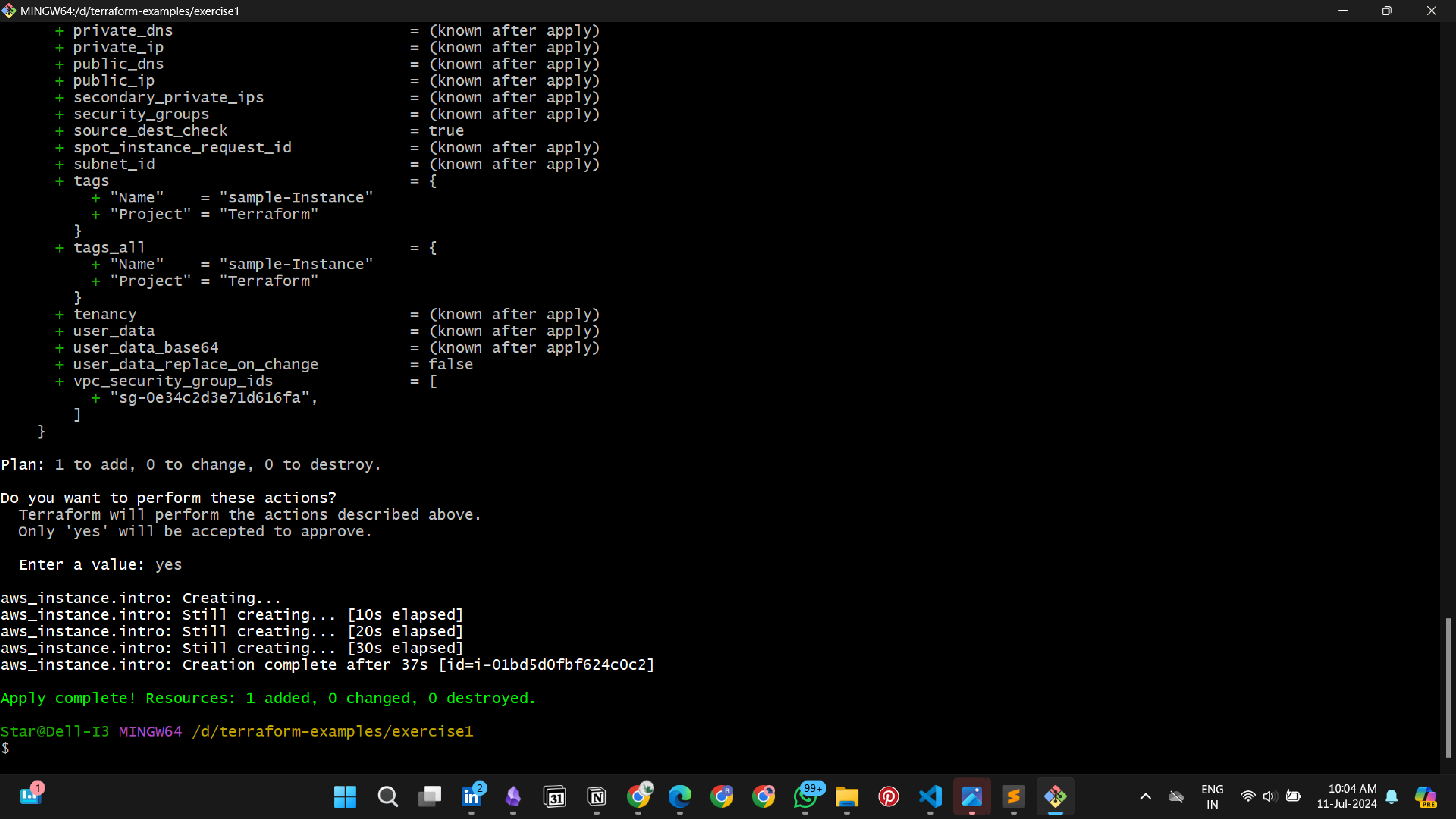
```
Star@Dell-I3 MINGW64 ~
$ cd/d/terraform-examples/
bash: cd/d/terraform-examples/: No such file or directory

Star@Dell-I3 MINGW64 ~
$ cd/d/terraform-examples
bash: cd/d/terraform-examples: No such file or directory

Star@Dell-I3 MINGW64 ~
$ cd /d/terraform-examples

Star@Dell-I3 MINGW64 /d/terraform-examples
$ ls
exercise1/  exercise2/

Star@Dell-I3 MINGW64 /d/terraform-examples
$ cd exercise1/

Star@Dell-I3 MINGW64 /d/terraform-examples/exercise1
$ terraform init

Initializing the backend...

Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.57.0

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.

Star@Dell-I3 MINGW64 /d/terraform-examples/exercise1
$ terraform validate
Success! The configuration is valid.


Star@Dell-I3 MINGW64 /d/terraform-examples/exercise1
```



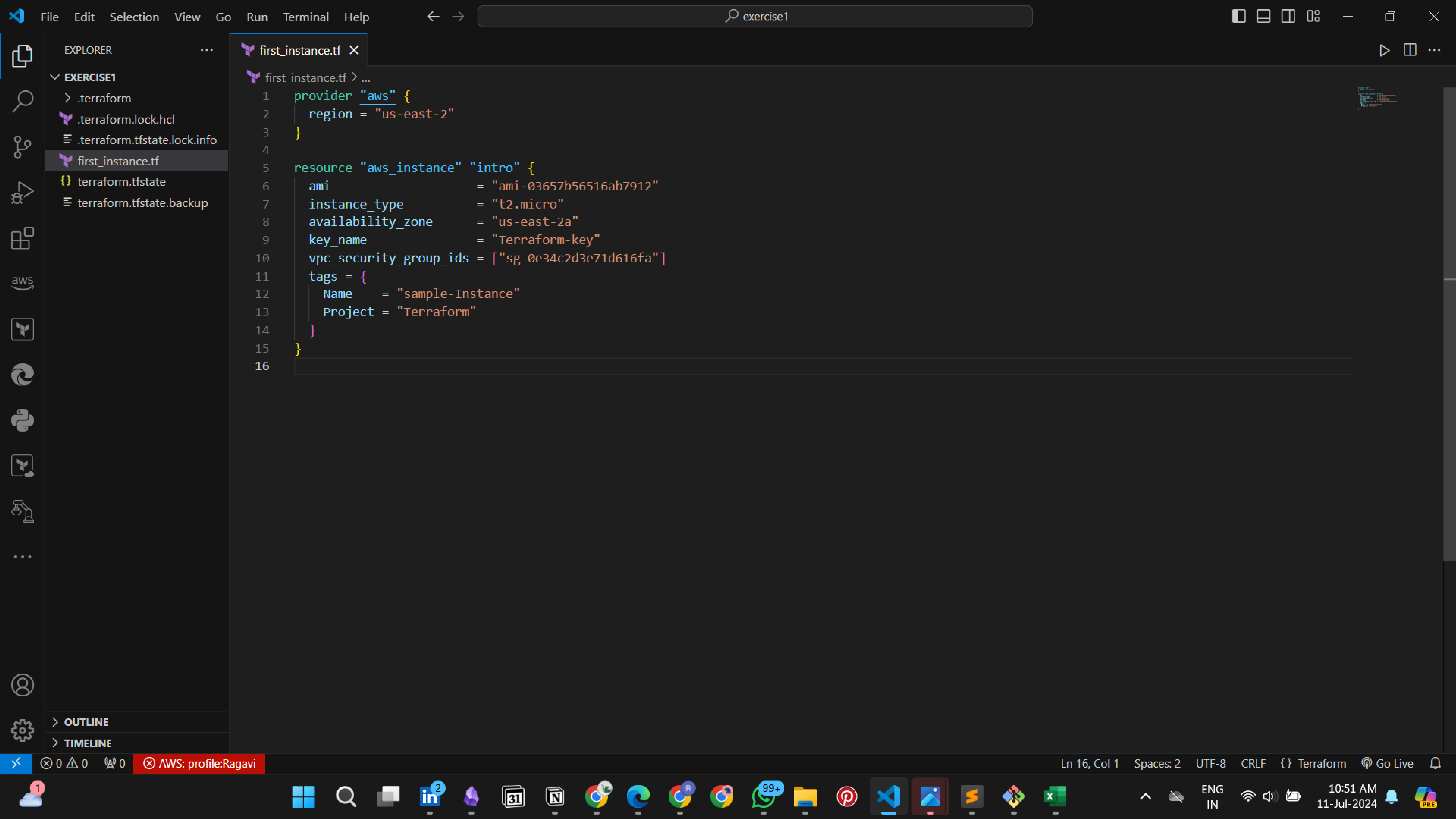
```
Star@Dell-I3 MINGW64 /d/terraform-examples/exercise1
$ terraform fmt

Star@Dell-I3 MINGW64 /d/terraform-examples/exercise1
$ cat first-instance.tf
cat: first-instance.tf: No such file or directory

Star@Dell-I3 MINGW64 /d/terraform-examples/exercise1
$ ls
first_instance.tf  terraform.tfstate  terraform.tfstate.backup

Star@Dell-I3 MINGW64 /d/terraform-examples/exercise1
$ cat first_instance.tf
provider "aws" {
  region = "us-east-2"
}

resource "aws_instance" "intro" {
  ami                    = "ami-03657b56516ab7912"
  instance_type          = "t2.micro"
  availability_zone      = "us-east-2a"
  key_name               = "Terraform-key"
  vpc_security_group_ids = ["sg-0e34c2d3e71d616fa"]
  tags = {
    Name    = "sample-Instance"
    Project = "Terraform"
  }
}

Star@Dell-I3 MINGW64 /d/terraform-examples/exercise1
$ terraform plan
aws_instance.intro: Refreshing state... [id=i-0f8de16071c17d2e8]

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.intro will be created
  + resource "aws_instance" "intro" {
      + ami                                  = "ami-03657b56516ab7912"
      + arn                                  = (known after apply)
```



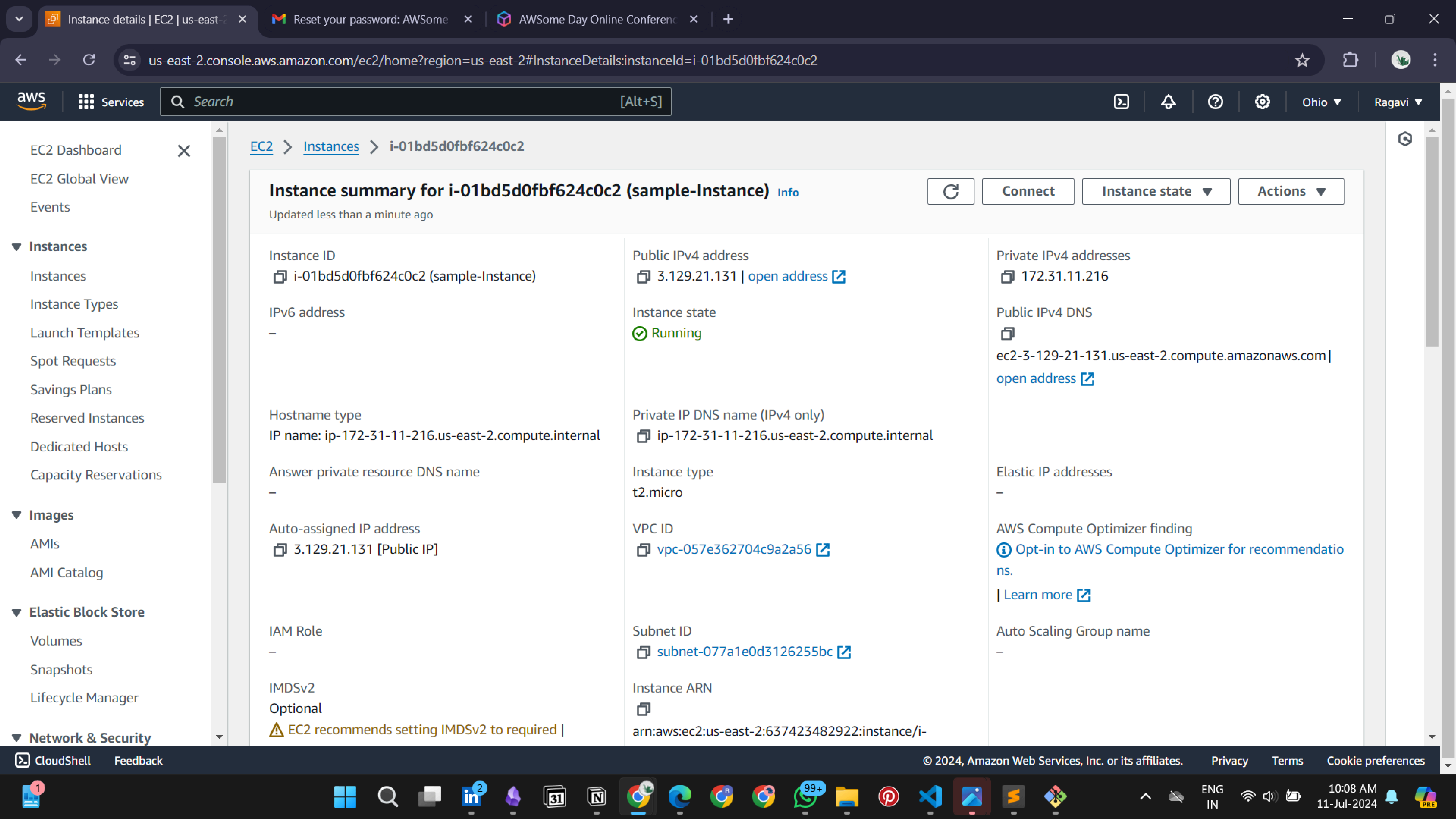
```
guarantee to take exactly these actions if you run "terraform apply" now.

Star@Dell-I3 MINGW64 /d/terraform-examples/exercise1
$ terraform apply
aws_instance.intro: Refreshing state... [id=i-0f8de16071c17d2e8]

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.intro will be created
  + resource "aws_instance" "intro" {
      + ami                                  = "ami-03657b56516ab7912"
      + arn                                  = (known after apply)
      + associate_public_ip_address          = (known after apply)
      + availability_zone                    = "us-east-2a"
      + 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                             = "Terraform-key"
      + monitoring                           = (known after apply)
      + outpost_arn                          = (known after apply)
      + password_data                        = (known after apply)
      + placement_group                      = (known after apply)
      + placement_partition_number           = (known after apply)
      + primary_network_interface_id         = (known after apply)
      + private_dns                          = (known after apply)
      + private_ip                           = (known after apply)
      + public_dns                           = (known after apply)
      + public_ip                            = (known after apply)
```



```
      + private_dns                          = (known after apply)
      + private_ip                           = (known after apply)
      + public_dns                           = (known after apply)
      + public_ip                            = (known after apply)
      + secondary_private_ips                = (known after apply)
      + security_groups                      = (known after apply)
      + source_dest_check                    = true
      + spot_instance_request_id             = (known after apply)
      + subnet_id                            = (known after apply)
      + tags                                 = {
          + "Name"    = "sample-Instance"
          + "Project" = "Terraform"
        }
      + tags_all                             = {
          + "Name"    = "sample-Instance"
          + "Project" = "Terraform"
        }
      + tenancy                              = (known after apply)
      + user_data                            = (known after apply)
      + user_data_base64                     = (known after apply)
      + user_data_replace_on_change          = false
      + vpc_security_group_ids               = [
          + "sg-0e34c2d3e71d616fa",
        ]
    }

Plan: 1 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.intro: Creating...
aws_instance.intro: Still creating... [10s elapsed]
aws_instance.intro: Still creating... [20s elapsed]
aws_instance.intro: Still creating... [30s elapsed]
aws_instance.intro: Creation complete after 37s [id=i-01bd5d0fbf624c0c2]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.

Star@Dell-I3 MINGW64 /d/terraform-examples/exercise1
$
```



```
provider "aws" {
  region = "us-east-2"
}

resource "aws_instance" "intro" {
  ami                    = "ami-03657b56516ab7912"
  instance_type          = "t2.micro"
  availability_zone      = "us-east-2a"
  key_name               = "Terraform-key"
  vpc_security_group_ids = ["sg-0e34c2d3e71d616fa"]
  tags = {
    Name    = "sample-Instance"
    Project = "Terraform"
  }
}

```



us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#InstanceDetails:instanceId=i-01bd5d0fbf624c0c2

EC2 > Instances > i-01bd5d0fbf624c0c2

Instance summary for i-01bd5d0fbf624c0c2 (sample-Instance) Info

Updated less than a minute ago

Instance ID i-01bd5d0fbf624c0c2 (sample-Instance)	Public IPv4 address 3.129.21.131 | open address	Private IPv4 addresses 172.31.11.216
IPv6 address –	Instance state Running	Public IPv4 DNS ec2-3-129-21-131.us-east-2.compute.amazonaws.com | open address
Hostname type IP name: ip-172-31-11-216.us-east-2.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-11-216.us-east-2.compute.internal	
Answer private resource DNS name –	Instance type t2.micro	Elastic IP addresses –
Auto-assigned IP address 3.129.21.131 [Public IP]	VPC ID vpc-057e362704c9a2a56	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role –	Subnet ID subnet-077a1e0d3126255bc	Auto Scaling Group name –
IMDSv2 Optional ⚠ EC2 recommends setting IMDSv2 to required |	Instance ARN arn:aws:ec2:us-east-2:637423482922:instance/i-	

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