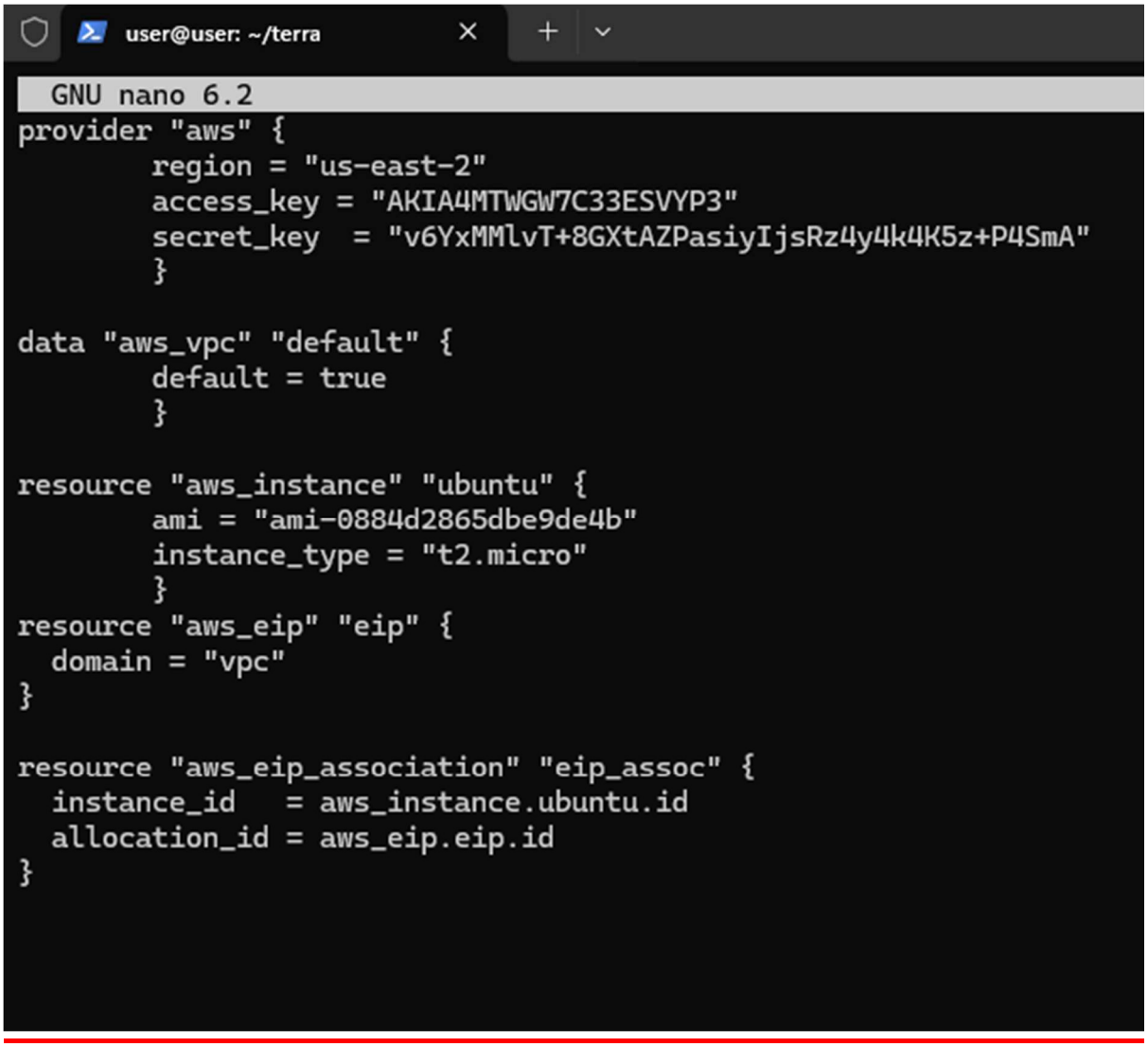
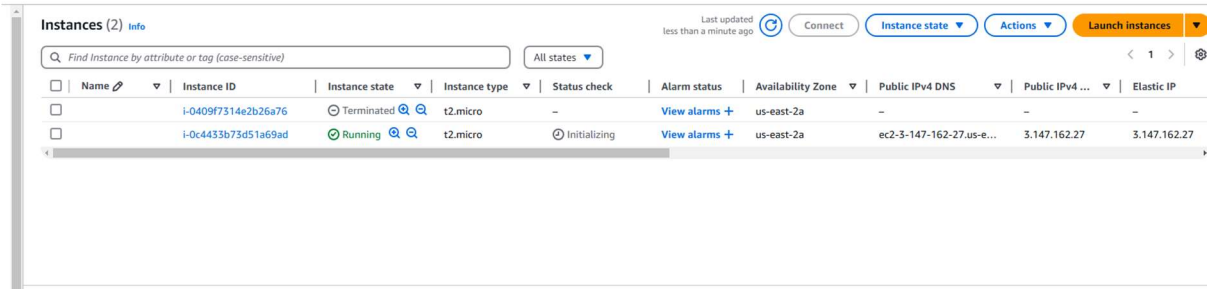
Terraform Assignment – 2


user@user: ~/terra
GNU nano 6.2
provider "aws" {
region = "us-east-2"
access_key = "AKIA4MTWGW7C33ESVYP3"
secret_key = "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"
}
data "aws_vpc" "default" {
default = true
}
resource "aws_instance" "ubuntu" {
ami = "ami-0884d2865dbe9de4b"
instance_type = "t2.micro"
}
resource "aws_eip" "eip" {
domain = "vpc"
}
resource "aws_eip_association" "eip_assoc" {
instance_id = aws_instance.ubuntu.id
allocation_id = aws_eip.eip.id
}

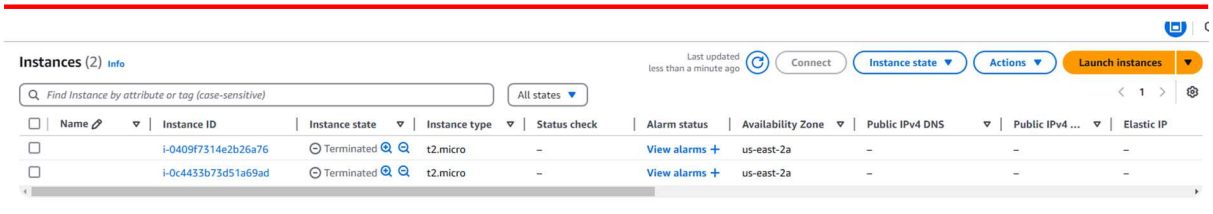
```
user@user:~/terra$ terraform apply
data.aws_vpc.default: Reading...
data.aws_vpc.default: Read complete after 4s [id=vpc-0cc3949c9cf957a84]

Terraform used the selected providers to generate the following execution plan. Resource
  + create

Terraform will perform the following actions:

  # aws_eip.eip will be created
  + resource "aws_eip" "eip" {
      + allocation_id        = (known after apply)
      + arn                  = (known after apply)
      + association_id       = (known after apply)
      + carrier_ip           = (known after apply)
      + customer_owned_ip    = (known after apply)
      + domain               = "vpc"
      + id                   = (known after apply)
      + instance             = (known after apply)
      + ipam_pool_id         = (known after apply)
      + network_border_group = (known after apply)
      + network_interface    = (known after apply)
      + private_dns          = (known after apply)
      + private_ip           = (known after apply)
      + ptr_record           = (known after apply)
      + public_dns           = (known after apply)
      + public_ip            = (known after apply)
      + public_ipv4_pool     = (known after apply)
      + tags_all             = (known after apply)
      + vpc                  = (known after apply)
    }

  # aws_eip_association.eip_assoc will be created
  + resource "aws_eip_association" "eip_assoc" {
      + allocation_id        = (known after apply)
      + id                   = (known after apply)
      + instance_id          = (known after apply)
      + network_interface_id = (known after apply)
      + private_ip_address   = (known after apply)
```

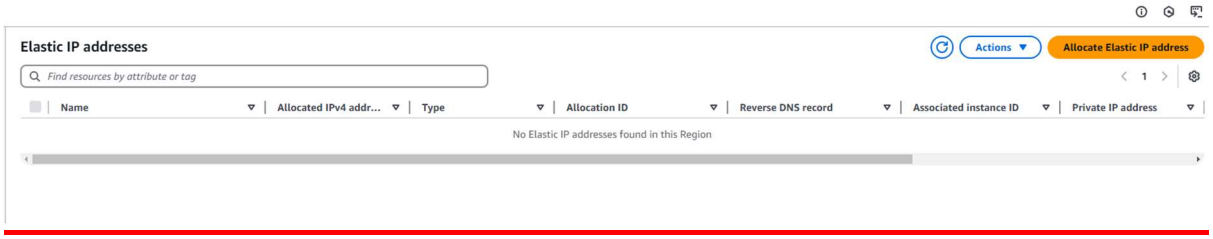
```
      + vpc_security_group_ids                = (known after apply)

      + capacity_reservation_specification (known after apply)

      + cpu_options (known after apply)

      + ebs_block_device (known after apply)

      + enclave_options (known after apply)

      + ephemeral_block_device (known after apply)

      + instance_market_options (known after apply)

      + maintenance_options (known after apply)

      + metadata_options (known after apply)

      + network_interface (known after apply)

      + private_dns_name_options (known after apply)

      + root_block_device (known after apply)
    }

Plan: 3 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_eip.eip: Creating...
aws_instance.ubuntu: Creating...
aws_eip.eip: Creation complete after 3s [id=eipalloc-02d5d71960763938d]
aws_instance.ubuntu: Still creating... [10s elapsed]
aws_instance.ubuntu: Creation complete after 17s [id=i-0c4433b73d51a69ad]
aws_eip_association.eip_assoc: Creating...
aws_eip_association.eip_assoc: Creation complete after 2s [id=eipassoc-090efce2

Apply complete! Resources: 3 added, 0 changed, 0 destroyed.
user@user:~/terra$
```




```
user@user:~/terra$ terraform destroy
data.aws_vpc.default: Reading...
aws_eip.eip: Refreshing state... [id=eipalloc-02d5d71960763938d]
aws_instance.ubuntu: Refreshing state... [id=i-0c4433b73d51a69ad]
data.aws_vpc.default: Read complete after 3s [id=vpc-0cc3949c9cf957a84]
aws_eip_association.eip_assoc: Refreshing state... [id=eipassoc-090efce28e70e09a2]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicate
  - destroy

Terraform will perform the following actions:

  # aws_eip.eip will be destroyed
  - resource "aws_eip" "eip" {
      - allocation_id            = "eipalloc-02d5d71960763938d" -> null
      - arn                      = "arn:aws:ec2:us-east-2:851725170629:elastic-ip/eipalloc-02d5d71960763938d"
      - association_id           = "eipassoc-090efce28e70e09a2" -> null
      - domain                   = "vpc" -> null
      - id                       = "eipalloc-02d5d71960763938d" -> null
      - instance                 = "i-0c4433b73d51a69ad" -> null
      - network_border_group     = "us-east-2" -> null
      - network_interface        = "eni-040335f04b8456043" -> null
      - private_dns              = "ip-172-31-1-165.us-east-2.compute.internal" -> null
      - private_ip               = "172.31.1.165" -> null
      - public_dns               = "ec2-3-147-162-27.us-east-2.compute.amazonaws.com" -> null
      - public_ip                = "3.147.162.27" -> null
      - public_ipv4_pool         = "amazon" -> null
      - tags                     = {} -> null
      - tags_all                 = {} -> null
      - vpc                      = true -> null
        # (4 unchanged attributes hidden)
    }

  # aws_eip_association.eip_assoc will be destroyed
  - resource "aws_eip_association" "eip_assoc" {
      - allocation_id        = "eipalloc-02d5d71960763938d" -> null
      - id                   = "eipassoc-090efce28e70e09a2" -> null
      - instance_id          = "i-0c4433b73d51a69ad" -> null
      - network_interface_id = "eni-040335f04b8456043" -> null
      - private_ip_address   = "172.31.1.165" -> null
      - public_ip            = "3.147.162.27" -> null
    }

  # aws_instance.ubuntu will be destroyed
  - resource "aws_instance" "ubuntu" {
      - ami                                  = "ami-0884d2865dbe9de4b" -> null
```

```
      - http_tokens                 = "optional" -> null
      - instance_metadata_tags      = "disabled" -> null
    }

  - private_dns_name_options {
      - enable_resource_name_dns_a_record    = false -> null
      - enable_resource_name_dns_aaaa_record = false -> null
      - hostname_type                        = "ip-name" -> null
    }

  - root_block_device {
      - delete_on_termination = true -> null
      - device_name           = "/dev/sda1" -> null
      - encrypted             = false -> null
      - iops                  = 100 -> null
      - tags                  = {} -> null
      - tags_all              = {} -> null
      - throughput            = 0 -> null
      - volume_id             = "vol-037a2a86fe76bb4fe" -> null
      - volume_size           = 8 -> null
      - volume_type           = "gp2" -> null
        # (1 unchanged attribute hidden)
    }
}

Plan: 0 to add, 0 to change, 3 to destroy.

Do you really want to destroy all resources?
  Terraform will destroy all your managed infrastructure, as shown above.
  There is no undo. Only 'yes' will be accepted to confirm.

  Enter a value: yes

aws_eip_association.eip_assoc: Destroying... [id=eipassoc-090efce28e70e09a2]
aws_eip_association.eip_assoc: Destruction complete after 4s
aws_eip.eip: Destroying... [id=eipalloc-02d5d71960763938d]
aws_instance.ubuntu: Destroying... [id=i-0c4433b73d51a69ad]
aws_eip.eip: Destruction complete after 2s
aws_instance.ubuntu: Still destroying... [id=i-0c4433b73d51a69ad, 10s elapsed]
aws_instance.ubuntu: Still destroying... [id=i-0c4433b73d51a69ad, 20s elapsed]
aws_instance.ubuntu: Still destroying... [id=i-0c4433b73d51a69ad, 30s elapsed]
aws_instance.ubuntu: Still destroying... [id=i-0c4433b73d51a69ad, 40s elapsed]
aws_instance.ubuntu: Destruction complete after 44s

Destroy complete! Resources: 3 destroyed.
user@user:~/terra$
```




Elastic IP addresses
Actions
Allocate Elastic IP address
Find resources by attribute or tag
1
Name
Allocated IPv4 addr...
Type
Allocation ID
Reverse DNS record
Associated instance ID
Private IP address
No Elastic IP addresses found in this Region