Tasks To Be Performed:

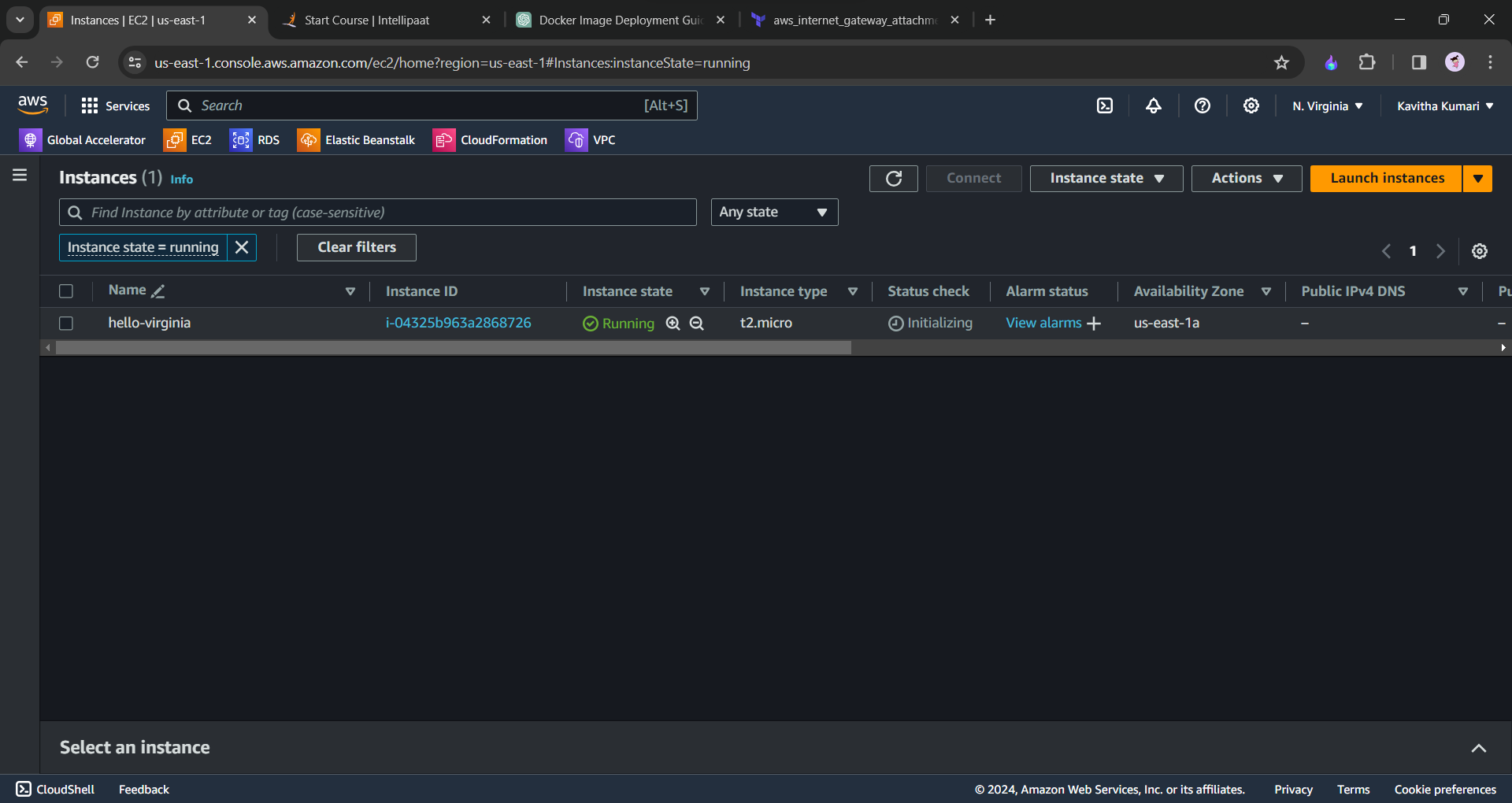
1. Destroy the previous deployments

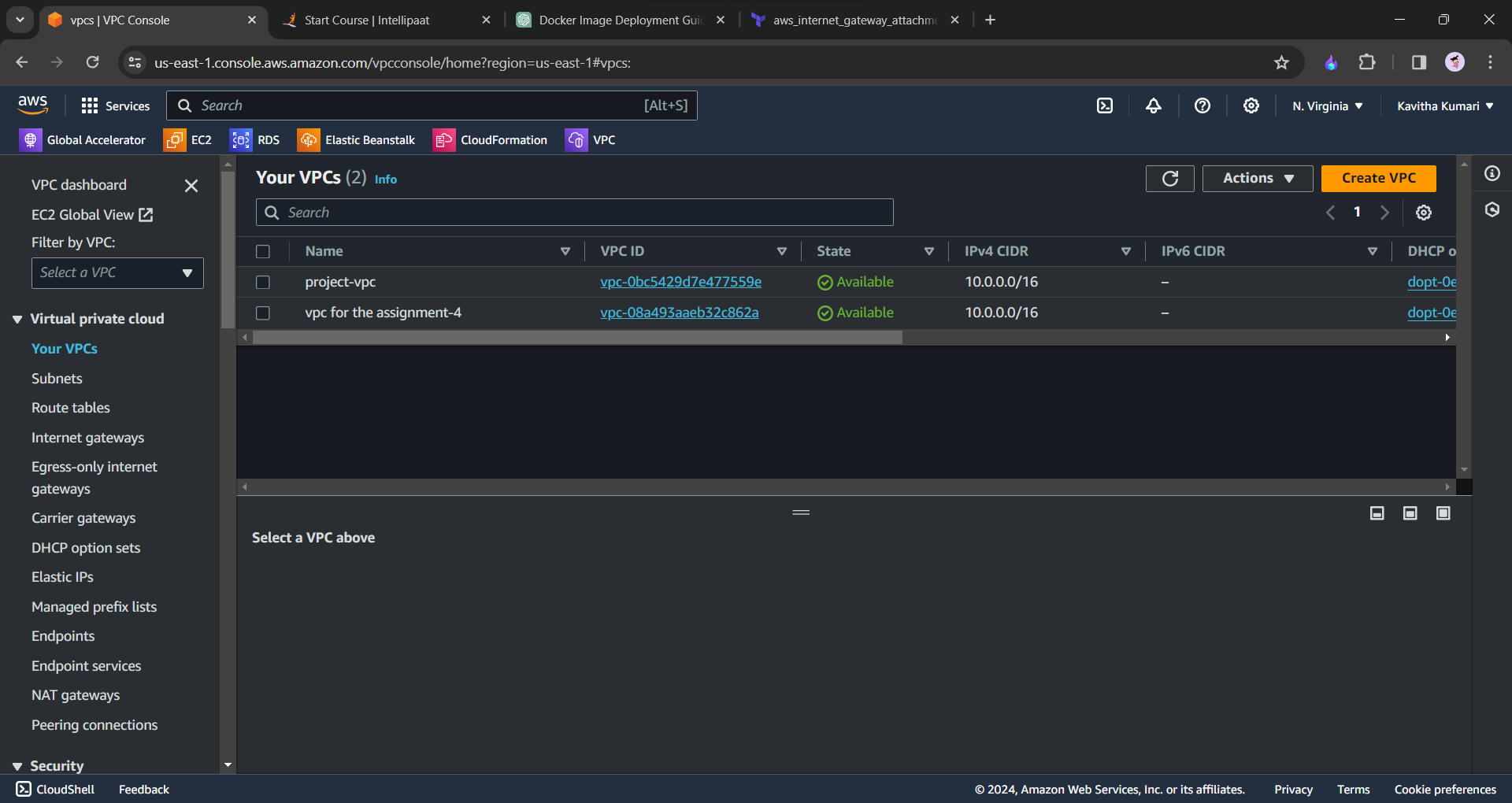
2. Create a VPC with the required components using Terraform

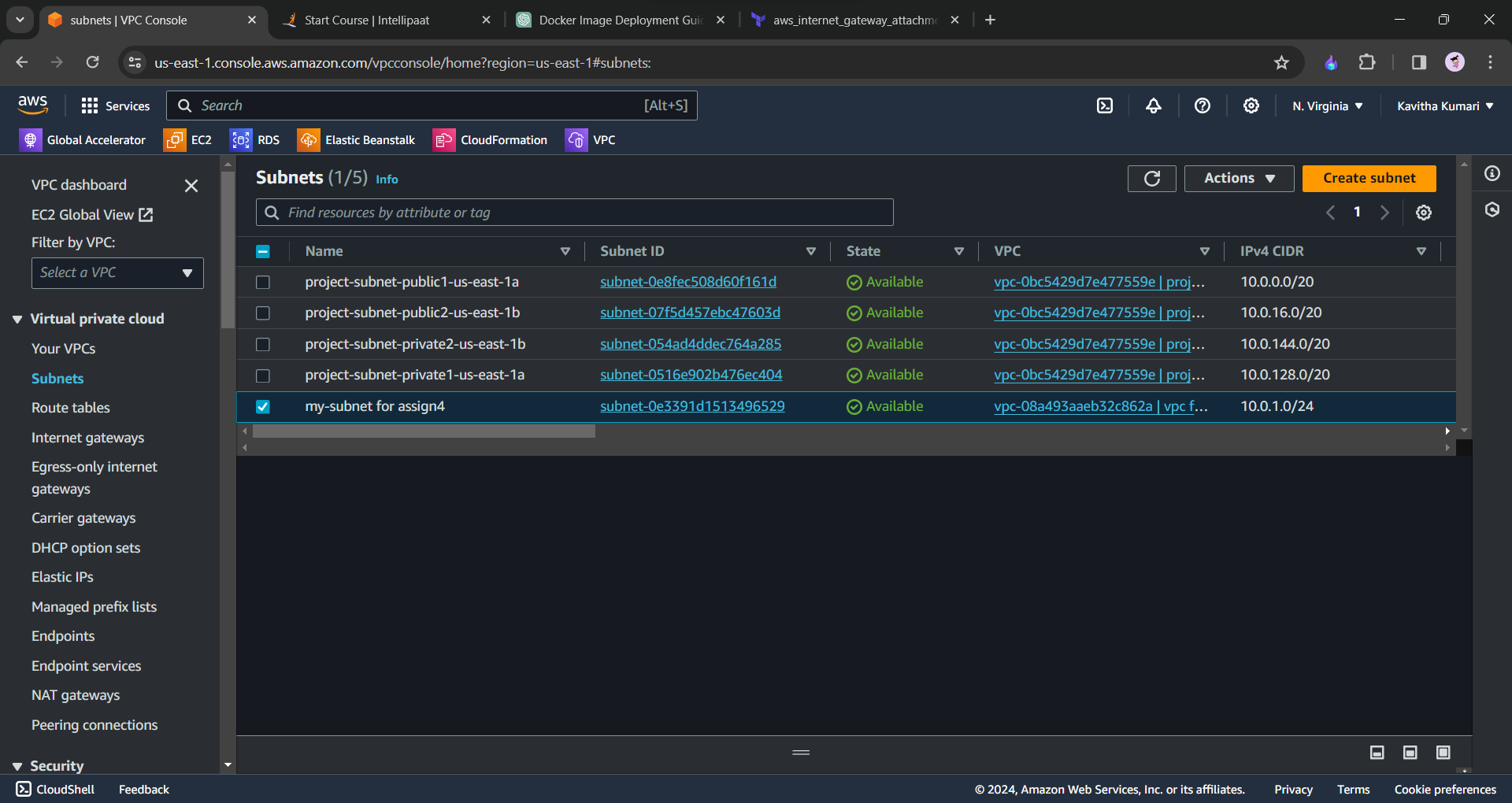
3. Deploy an EC2 instance inside the VPC

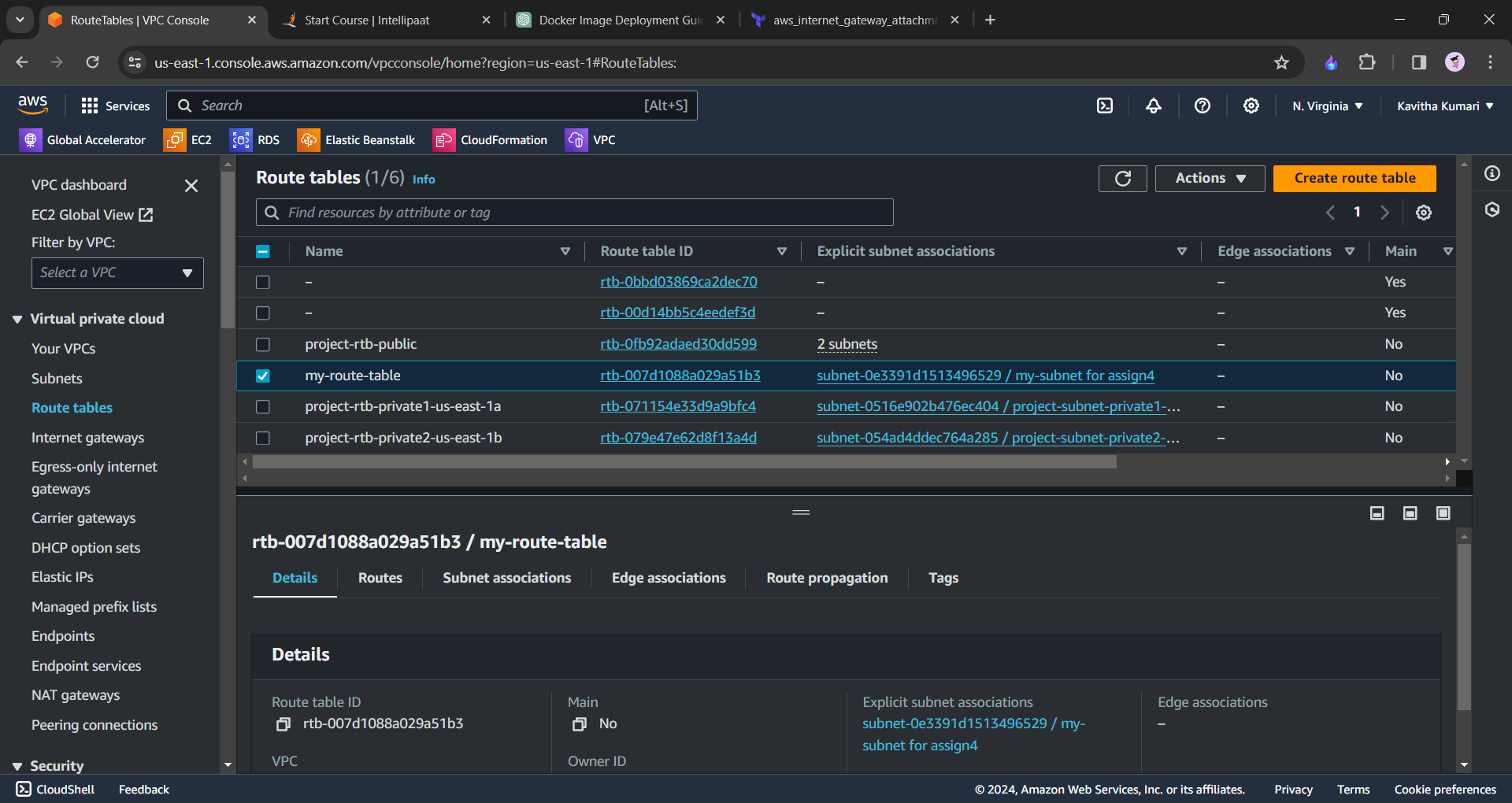
Procedure: -

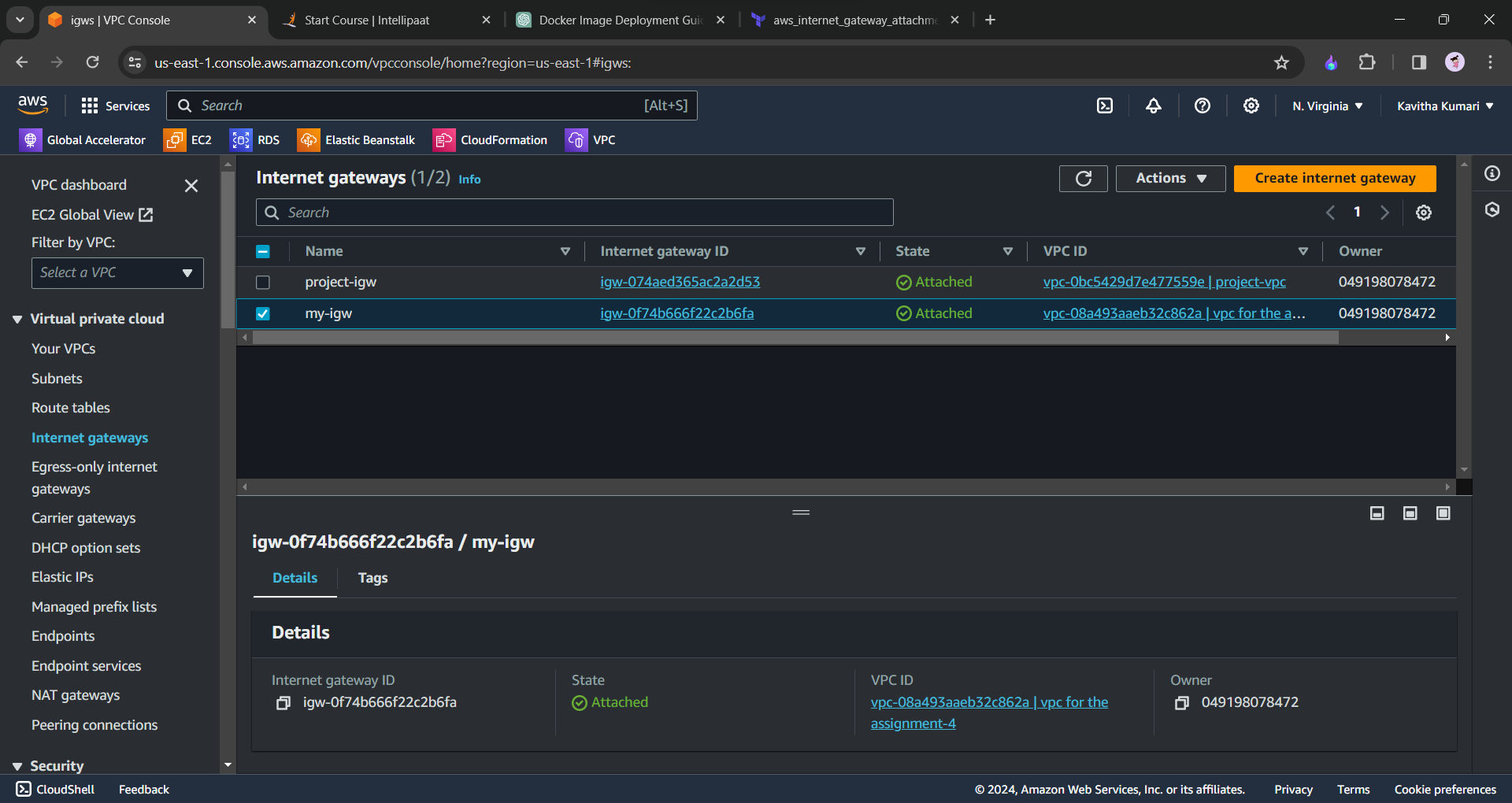
terraform {  
 required\_providers {  
 aws = {  
 source = "hashicorp/aws"  
 version = "~> 5.0"  
 }  
 }  
}  
# Use a new provider for N.Virginia  
provider "aws" {  
 region = "us-east-1" # N.Virginia region  
 access\_key = "AKIAQW5DPDIEH5ZZNEEK"  
 secret\_key = "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"  
}  
  
resource "aws\_vpc" "assign4-vpc"{  
 cidr\_block = "10.0.0.0/16"  
 tags = {  
 Name = "vpc for the assignment-4"  
 }  
}  
  
resource "aws\_subnet" "assign4-subnet" {  
 vpc\_id = aws\_vpc.assign4-vpc.id   
 cidr\_block = "10.0.1.0/24"  
 availability\_zone = "us-east-1a"  
 tags = {  
 Name = "my-subnet for assign4"  
 }  
}  
  
resource "aws\_internet\_gateway" "my-ass4-igw" {  
 vpc\_id = aws\_vpc.assign4-vpc.id   
 tags = {  
 Name = "my-igw"  
 }  
}  
  
resource "aws\_internet\_gateway\_attachment" "my\_igw\_attachment" {  
 vpc\_id = aws\_vpc.assign4-vpc.id   
 internet\_gateway\_id = aws\_internet\_gateway.my-ass4-igw.id   
}  
  
resource "aws\_route\_table" "my\_route\_table" {  
 vpc\_id = aws\_vpc.assign4-vpc.id   
 route {  
 cidr\_block = "0.0.0.0/0"  
 gateway\_id = aws\_internet\_gateway.my-ass4-igw.id   
 }  
 tags = {  
 Name = "my-route-table"  
 }  
}  
resource "aws\_route\_table\_association" "my\_subnet\_association" {  
 subnet\_id = aws\_subnet.assign4-subnet.id   
 route\_table\_id = aws\_route\_table.my\_route\_table.id  
}  
# Create EC2 instance in N.Virginia  
resource "aws\_instance" "hello\_virginia" {  
 ami = "ami-0f403e3180720dd7e" # Specify the desired AMI ID **for** N.Virginia  
 instance\_type = "t2.micro" # Specify the instance type  
 subnet\_id = aws\_subnet.assign4-subnet.id   
 tags = {  
 Name = "hello-virginia"  
 }  
}

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