Terraform Assignment - 4

You have been asked to:

• Destroy the previous deployments

```
Plan: 0 to add, 0 to change, 2 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_instance.assignment-3-1: Destroying... [id=i-Ocea6lbac395eef32]
aws_instance.assignment-3-2: Destroying... [id=i-Ocea6lbac395eef32, 10s elapsed]
aws_instance.assignment-3-2: Still destroying... [id=i-Ocea6lbac395eef32, 20s elapsed]
aws_instance.assignment-3-2: Still destroying... [id=i-Ocea6lbac395eef32, 20s elapsed]
aws_instance.assignment-3-1: Still destroying... [id=i-Ocea6lbac395eef32, 20s elapsed]
aws_instance.assignment-3-1: Still destroying... [id=i-Ocea6lbac395eef32, 30s elapsed]
aws_instance.assignment-3-2: Still destroying... [id=i-Ocea6lbac395eef32, 30s elapsed]
aws_instance.assignment-3-2: Still destroying... [id=i-Ocea6lbac395eef32, 40s elapsed]
aws_instance.assignment-3-2: Still destroying... [id=i-Ocea6lbac395eef32, 40s elapsed]
aws_instance.assignment-3-2: Destruction complete after 40s
aws_instance.assignment-3-2: Destruction complete after 40s
aws_instance.assignment-3-1: Destruction complete after 50s

Destroy complete! Resources: 2 destroyed.

Coole preferences

Occupation of the privacy Terms Coole
```

- Create a VPC with the required components using Terraform
- Deploy an EC2 instance inside the VPC

```
Enter a value: yes

aws_route_table_association.example_rta: Destroying... [id=rtbassoc-0aaaca8f472b2e7bb]

aws_route_table_association.example_rta: Destruction complete after 0s

aws_subnet.example_subnet: Destruction complete after 1s

aws_subnet.example_subnet: Destruction complete after 1s

aws_subnet.example_subnet: Creating...

aws_subnet.example_subnet: Creating...

aws_subnet.example_instance: Creating...

aws_instance.example_instance: Creating...

aws_route_table_association.example_rta: Creating...

aws_route_table_association.example_rta: Creating...

aws_instance.example_instance: Still creating... [10s elapsed]

aws_instance.example_instance: Still creating... [20s elapsed]

aws_instance.example_instance: Still creating... [30s elapsed]

aws_instance.example_instance: Creation complete after 33s [id=i-0aa814d0272645821]

Apply_complete! Resources: 3 added, 0 changed, 2 destroyed.

root@ip-172-31-14-245:~#
```

Code:

```
provider "aws" {
    region = "us-west-2"
    access_key = "AKIAVNPLXOGUAGQNP6LT"
    secret key = "5J1CWJvqwfQh50sT5u789ndFvmWc+X2bllf96neJ"
```

```
}
resource "aws_vpc" "example_vpc" {
 cidr_block = "10.0.0.0/16"
 enable_dns_support = true
 enable_dns_hostnames = true
 tags = {
  Name = "example-vpc"
}
}
resource "aws_subnet" "example_subnet" {
 vpc_id = aws_vpc.example_vpc.id
 cidr_block = "10.0.1.0/24"
availability_zone = "us-west-2a"
 tags = {
  Name = "example-subnet"
}
}
resource "aws_internet_gateway" "example_igw" {
 vpc_id = aws_vpc.example_vpc.id
 tags = {
  Name = "example-igw"
}
resource "aws_route_table" "example_rt" {
 vpc_id = aws_vpc.example_vpc.id
 route {
  cidr_block = "0.0.0.0/0"
  gateway_id = aws_internet_gateway.example_igw.id
 }
 tags = {
  Name = "example-rt"
}
resource "aws_route_table_association" "example_rta" {
 subnet_id
              = aws_subnet.example_subnet.id
```

```
route_table_id = aws_route_table.example_rt.id
}
resource "aws_security_group" "example_sg" {
           = "example-sg"
 name
 description = "Allow SSH inbound traffic"
 vpc id
          = aws_vpc.example_vpc.id
 ingress {
  from port = 22
  to_port = 22
  protocol = "tcp"
  cidr_blocks = ["0.0.0.0/0"]
 egress {
  from_port = 0
  to port = 0
  protocol = "-1"
  cidr_blocks = ["0.0.0.0/0"]
 }
 tags = {
  Name = "example-sg"
}
}
resource "aws_instance" "example_instance" {
           = "ami-08f7912c15ca96832"
 ami
 instance_type = "t2.micro"
 subnet_id = aws_subnet.example_subnet.id
vpc_security_group_ids = [aws_security_group.example_sg.id]
 tags = {
  Name = "example-instance"
 }
}
Code 2: Shorter
provider "aws" {
 region = "us-west-2"
 access_key = "AKIAVNPLXOGUAGQNP6LT"
 secret key = "5J1CWJvqwfQh50sT5u789ndFvmWc+X2bllf96neJ"
}
```

```
resource "aws_vpc" "example_vpc" {
 cidr_block = "10.0.0.0/16"
 tags = {
  Name = "example-vpc"
}
resource "aws_subnet" "example_subnet" {
 vpc_id = aws_vpc.example_vpc.id
 cidr_block = "10.0.1.0/24"
availability zone = "us-west-2a"
 tags = {
  Name = "example-subnet"
}
}
resource "aws_instance" "example_instance" {
          = "ami-08f7912c15ca96832"
 instance type = "t2.micro"
 key_name = "WOW"
 subnet_id = aws_subnet.example_subnet.id
 tags = {
  Name = "example-instance"
}
}
Code 3: more shorter
provider "aws" {
 region = "us-west-2"
 access_key = "AKIAVNPLXOGUAGQNP6LT"
 secret_key = "5J1CWJvqwfQh50sT5u789ndFvmWc+X2bllf96neJ"
resource "aws_vpc" "example_vpc" {
 cidr_block = "10.0.0.0/16"
 tags = {
  Name = "example-vpc"
}
}
resource "aws_instance" "example_instance" {
 ami
          = "ami-08f7912c15ca96832"
 instance type = "t2.micro"
 key_name = "WOW"
```

```
subnet_id = aws_subnet.example_subnet.id
tags = {
   Name = "example-instance"
}
```