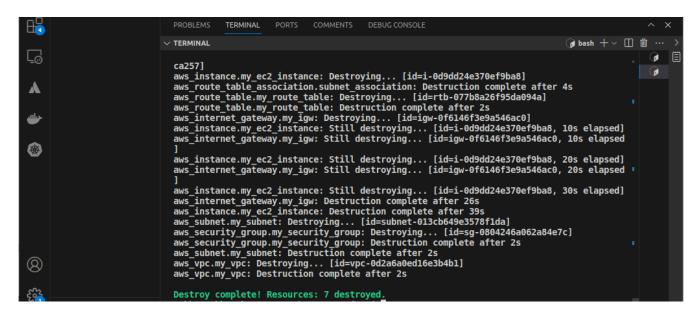
- 1. Destroy the previous deployments
- 2. Create a script to install Apache2
- 3. Run this script on a newly created EC2 instance
- 4. Print the IP address of the instance in a file on the local once deployed



No: 2

```
#!/bin/bash
apt update
apt install -y apache2
systemctl start apache2
systemctl enable apache2
```

No: 3

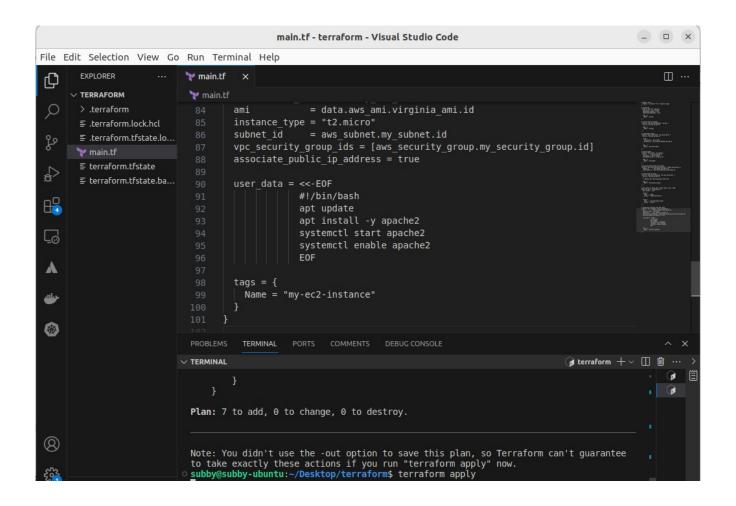
```
provider "aws" {
  region = "us-east-1" # N. Virginia region
}
# Create VPC
resource "aws_vpc" "my_vpc" {
  cidr_block = "10.0.0.0/16"
  enable_dns_support = true
  enable_dns_hostnames = true

tags = {
  Name = "my-vpc"
  }
}
```

Create Internet Gateway

```
resource "aws_internet_gateway" "my_igw" {
 vpc_id = aws_vpc.my_vpc.id
 tags = {
  Name = "my-igw"
}
# Create Route Table
resource "aws_route_table" "my_route_table" {
 vpc_id = aws_vpc.my_vpc.id
 route {
  cidr_block = "0.0.0.0/0"
  gateway_id = aws_internet_gateway.my_igw.id
 tags = {
  Name = "my-route-table"
 }
}
# Create Subnet
resource "aws_subnet" "my_subnet" {
 vpc_id = aws_vpc.my_vpc.id
 cidr_block = "10.0.1.0/24"
 availability_zone = "us-east-1a"
 tags = {
  Name = "my-subnet"
}
# Associate Route Table with Subnet
resource "aws_route_table_association" "subnet_association" {
 subnet_id = aws_subnet.my_subnet.id
 route_table_id = aws_route_table.my_route_table.id
# Create Security Group
resource "aws_security_group" "my_security_group" {
 vpc_id = aws_vpc.my_vpc.id
 // Define your security group rules here
 tags = {
  Name = "my-security-group"
}
```

```
# Data block to fetch most recent Amazon Linux 2 AMI
data "aws_ami" "virginia_ami" {
 most_recent = true
 filter {
  name = "name"
  values = ["amzn2-ami-hvm-*"]
 filter {
  name = "virtualization-type"
  values = ["hvm"]
}
# Create EC2 Instance with User Data
resource "aws_instance" "my_ec2_instance" {
           = data.aws_ami.virginia_ami.id
 instance_type = "t2.micro"
 subnet_id = aws_subnet.my_subnet.id
 vpc_security_group_ids = [aws_security_group.my_security_group.id]
 associate_public_ip_address = true
 user_data = <<-EOF
        #!/bin/bash
        apt update
        apt install -y apache2
        systemctl start apache2
        systemctl enable apache2
        EOF
 tags = {
  Name = "my-ec2-instance"
}
```



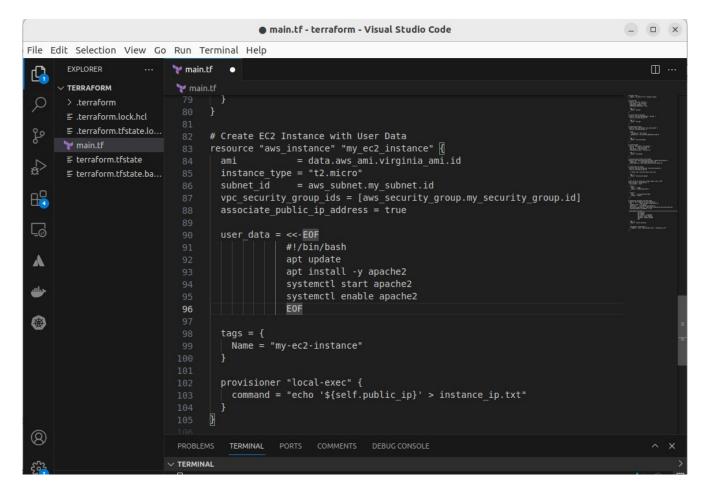
No: 4

Print the IP address of the instance in a file on the local once deployed:

```
provisioner "local-exec" {
  command = "echo '${self.public_ip}' > instance_ip.txt"
provider "aws" {
 region = "us-east-1" # N. Virginia region
}
# Create VPC
resource "aws_vpc" "my_vpc" {
 cidr_block = "10.0.0.0/16"
 enable_dns_support = true
 enable_dns_hostnames = true
 tags = {
  Name = "my-vpc"
}
# Create Internet Gateway
resource "aws_internet_gateway" "my_igw" {
 vpc_id = aws_vpc.my_vpc.id
 tags = {
  Name = "my-igw"
 }
}
# Create Route Table
resource "aws_route_table" "my_route_table" {
 vpc_id = aws_vpc.my_vpc.id
 route {
  cidr_block = "0.0.0.0/0"
  gateway_id = aws_internet_gateway.my_igw.id
 }
 tags = {
  Name = "my-route-table"
```

```
}
# Create Subnet
resource "aws_subnet" "my_subnet" {
 vpc_id = aws_vpc.my_vpc.id
 cidr_block = "10.0.1.0/24"
 availability_zone = "us-east-1a"
 tags = {
  Name = "my-subnet"
}
# Associate Route Table with Subnet
resource "aws_route_table_association" "subnet_association" {
            = aws_subnet.my_subnet.id
 route_table_id = aws_route_table.my_route_table.id
# Create Security Group
resource "aws_security_group" "my_security_group" {
 vpc_id = aws_vpc.my_vpc.id
 // Define your security group rules here
 tags = {
  Name = "my-security-group"
}
# Data block to fetch most recent Amazon Linux 2 AMI
data "aws_ami" "virginia_ami" {
 most_recent = true
 filter {
  name = "name"
  values = ["amzn2-ami-hvm-*"]
 filter {
  name = "virtualization-type"
  values = ["hvm"]
# Create EC2 Instance with User Data
resource "aws_instance" "my_ec2_instance" {
           = data.aws_ami.virginia_ami.id
 instance_type = "t2.micro"
```

```
subnet_id = aws_subnet.my_subnet.id
 vpc_security_group_ids = [aws_security_group.my_security_group.id]
 associate_public_ip_address = true
 user data = <<-EOF
        #!/bin/bash
        apt update
        apt install -y apache2
        systemctl start apache2
        systemctl enable apache2
        EOF
 tags = {
  Name = "my-ec2-instance"
 }
 provisioner "local-exec" {
  command = "echo '${self.public_ip}' > instance_ip.txt"
}
```



```
provider "aws" {
 region = "us-east-1" # N. Virginia region
# Create VPC
resource "aws_vpc" "my_vpc" {
 cidr_block = "10.0.0.0/16"
 enable_dns_support = true
 enable_dns_hostnames = true
 tags = {
  Name = "my-vpc"
}
# Create Internet Gateway
resource "aws_internet_gateway" "my_igw" {
 vpc_id = aws_vpc.my_vpc.id
 tags = {
  Name = "my-igw"
 }
}
# Create Route Table
resource "aws_route_table" "my_route_table" {
 vpc_id = aws_vpc.my_vpc.id
 route {
  cidr_block = "0.0.0.0/0"
  gateway_id = aws_internet_gateway.my_igw.id
 }
 tags = {
  Name = "my-route-table"
# Create Subnet
resource "aws_subnet" "my_subnet" {
 vpc_id = aws_vpc.my_vpc.id
 cidr_block = "10.0.1.0/24"
 availability_zone = "us-east-1a"
 tags = {
  Name = "my-subnet"
}
```

```
# Associate Route Table with Subnet
resource "aws_route_table_association" "subnet_association" {
             = aws_subnet.my_subnet.id
 subnet id
route_table_id = aws_route_table.my_route_table.id
# Create Security Group
resource "aws_security_group" "my_security_group" {
 vpc_id = aws_vpc.my_vpc.id
// Define your security group rules here
// Allow inbound traffic from everywhere (0.0.0.0/0) on all ports and protocols
 ingress {
  from_port = 0 # All ports
  to_port = 0 # All ports
  protocol = "-1" # All protocols
  cidr_blocks = ["0.0.0.0/0"] # Allow from anywhere
tags = {
  Name = "my-security-group"
}
# Data block to fetch most recent Amazon Linux 2 AMI
data "aws_ami" "virginia_ami" {
 most recent = true
 filter {
  name = "name"
  values = ["amzn2-ami-hvm-*"]
 filter {
  name = "virtualization-type"
  values = ["hvm"]
# Create EC2 Instance with User Data
resource "aws_instance" "my_ec2_instance" {
           = data.aws_ami.virginia_ami.id
instance_type = "t2.micro"
 subnet id = aws subnet.my subnet.id
 associate_public_ip_address = true
 security_groups = [aws_security_group.my_security_group.id] # Use the created security group
```

```
● subby@subby-ubuntu:~/Desktop/terraform$ cat instance_ip.txt

44.202.107.201

• subby@subby-ubuntu:~/Desktop/terraform$ 

issue 

Sign in to Bitbucket 

0 △ 0 № 0

Ln 114, Col 1 (2395 selected) Spaces: 2 UTF-8 LF Plain Text 

C
```