**Terraform Final Task**

1. **Create VPC**
2. **Create Internet gateway**
3. **Create Custom Route Table**
4. **Create Subnet**
5. **Associate subnet with Route Table**
6. **Create Security Group to allow port 22.80,443**
7. **Create a network interface with an ip in the subnet that was created in step 4**
8. **Assign an elastic IP to the network interface created in step 7**
9. **Create Ubuntu server and install/enable apache2**

**This configuration builds a basic networking setup in AWS:**

* **VPC**
* **Subnet**
* **Internet Gateway**
* **Route Table**
* **Route Table Association**

**Step 1: Create VPC**

**In terraform .main**

**resource "aws\_vpc" "my\_vpc" {**

**cidr\_block = "10.0.0.0/16"**

**enable\_dns\_support = true**

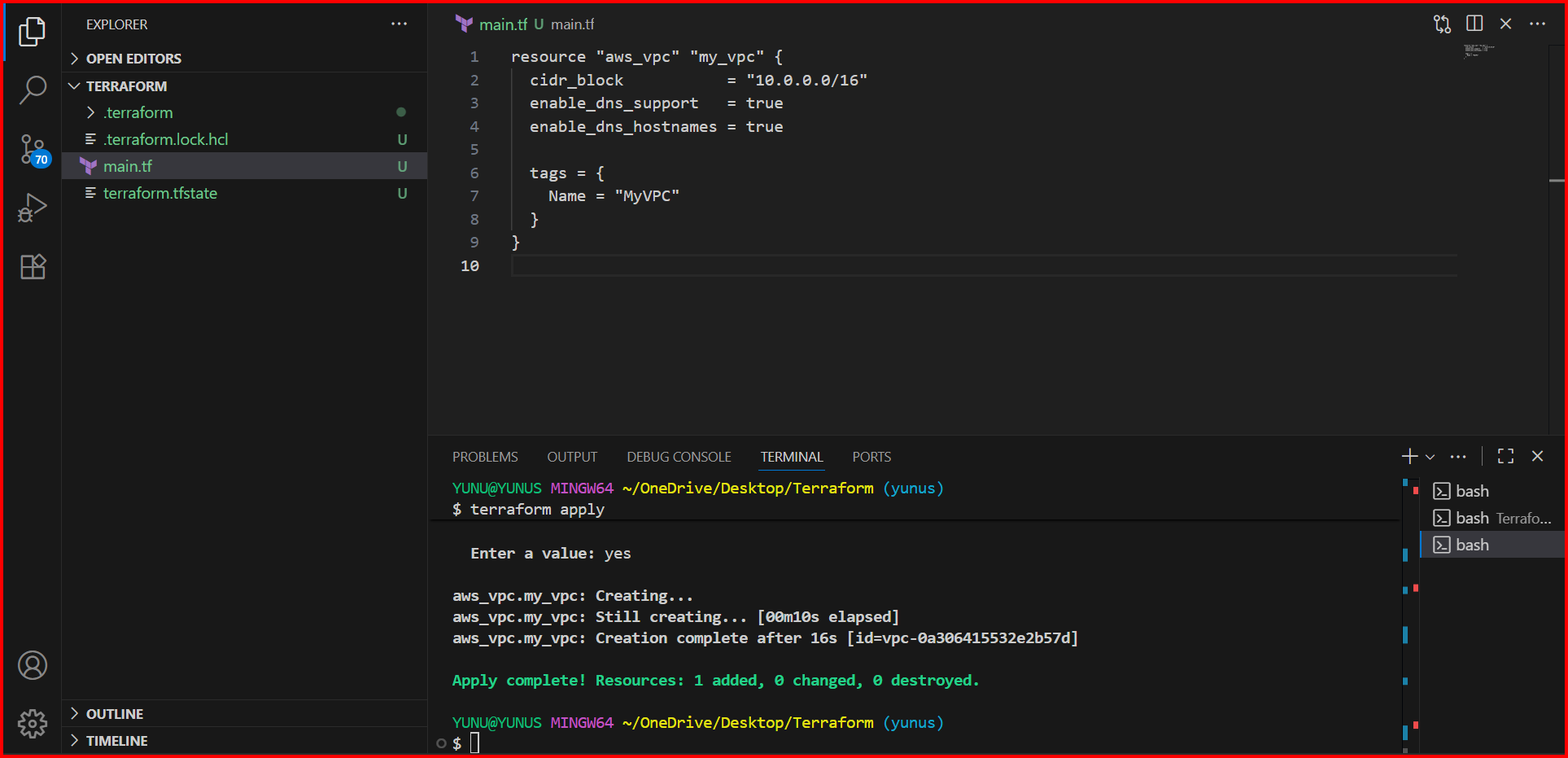
**enable\_dns\_hostnames = true**

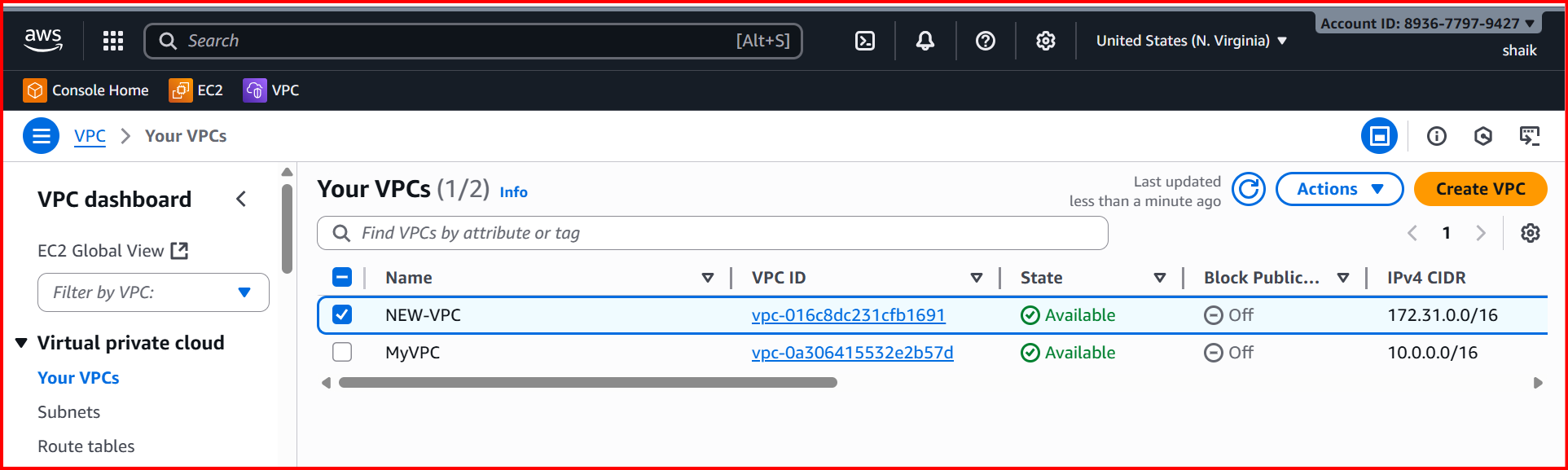
**tags = {**

**Name = "MyVPC"**

**}**

**}**

****

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**Step 2: Create Subnet**

**Step 1 & Step 2**

**resource "aws\_subnet" "my\_subnet" {**

**vpc\_id = aws\_vpc.my\_vpc.id**

**cidr\_block = "10.0.1.0/24"**

**availability\_zone = "us-east-1a"**

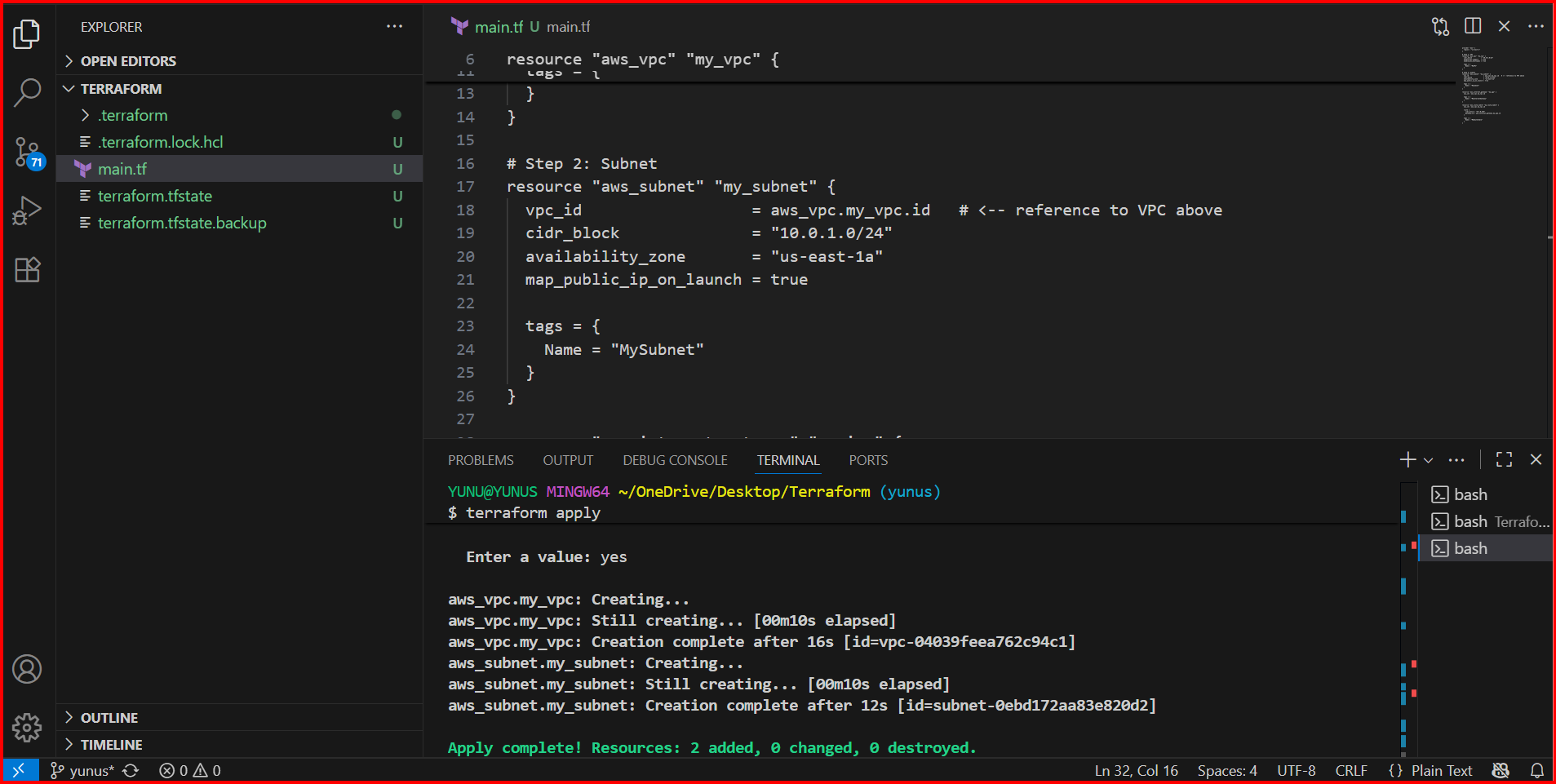
**map\_public\_ip\_on\_launch = true**

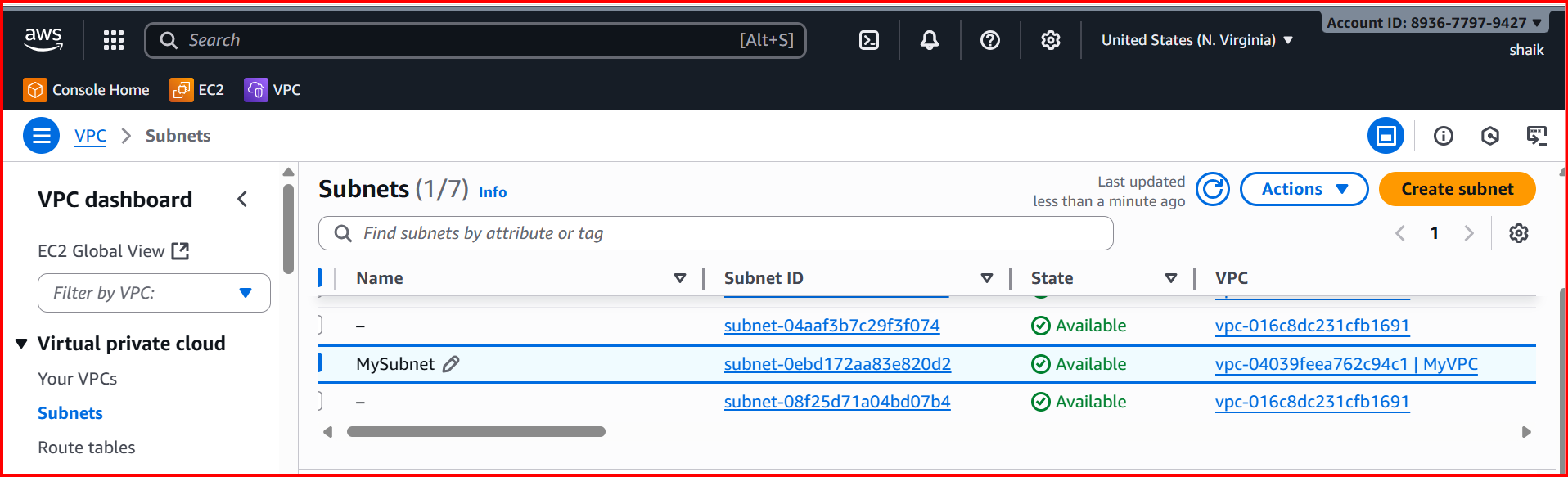
**tags = {**

**Name = "MySubnet"**

**}**

**}**

****

****

**Step 3: Create Internet Gateway**

**Step1 / Step2 /Step3**

**resource "aws\_internet\_gateway" "my\_igw" {**

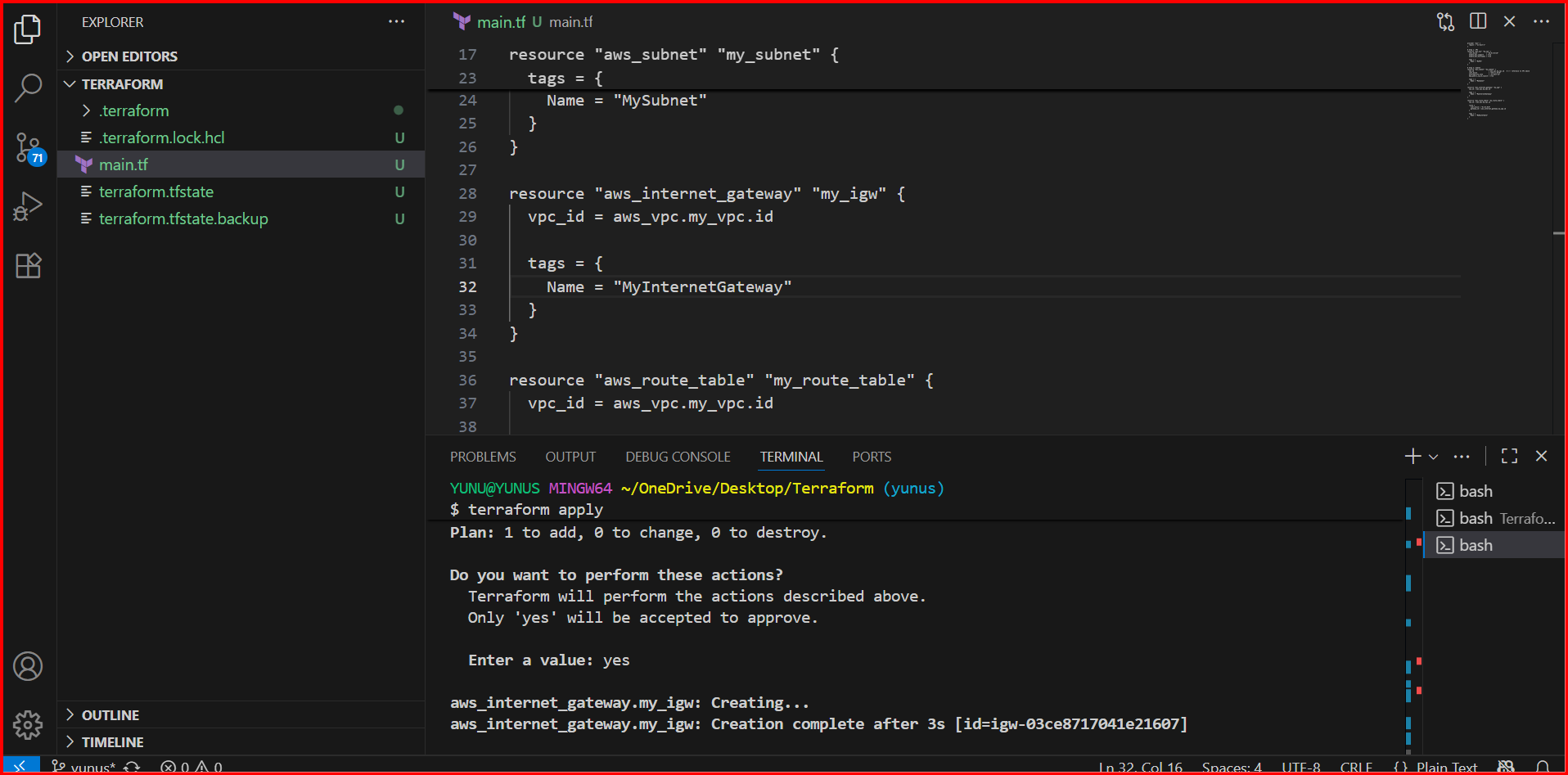
**vpc\_id = aws\_vpc.my\_vpc.id**

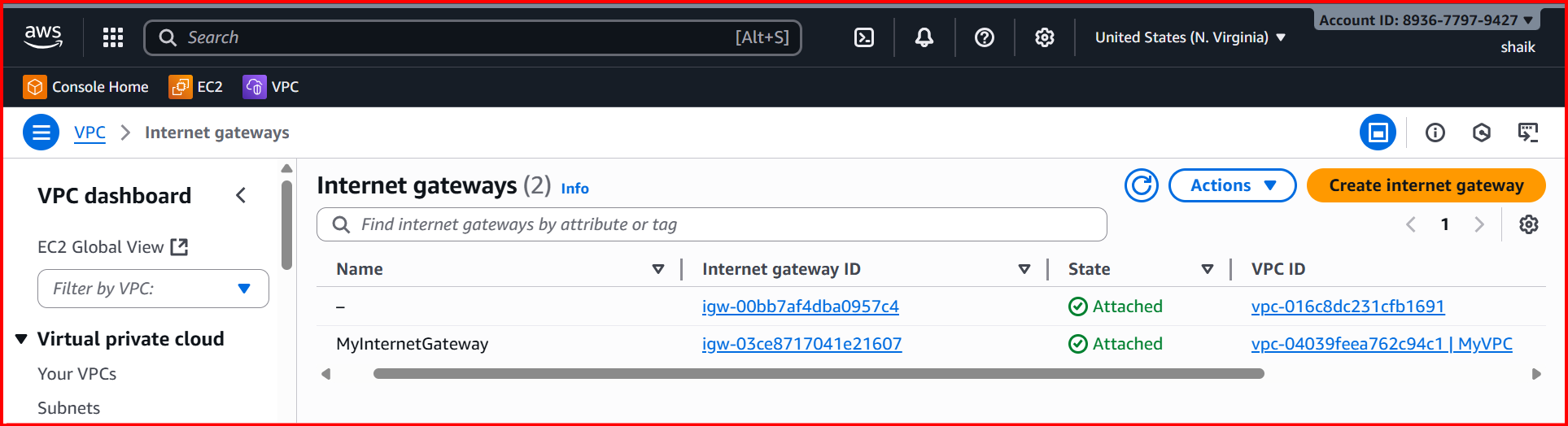
**tags = {**

**Name = "MyInternetGateway"**

**}**

**}**

****

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**Step 4: Create Route Table**

**Step1 / Step2 /Step3/Step4**

**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**

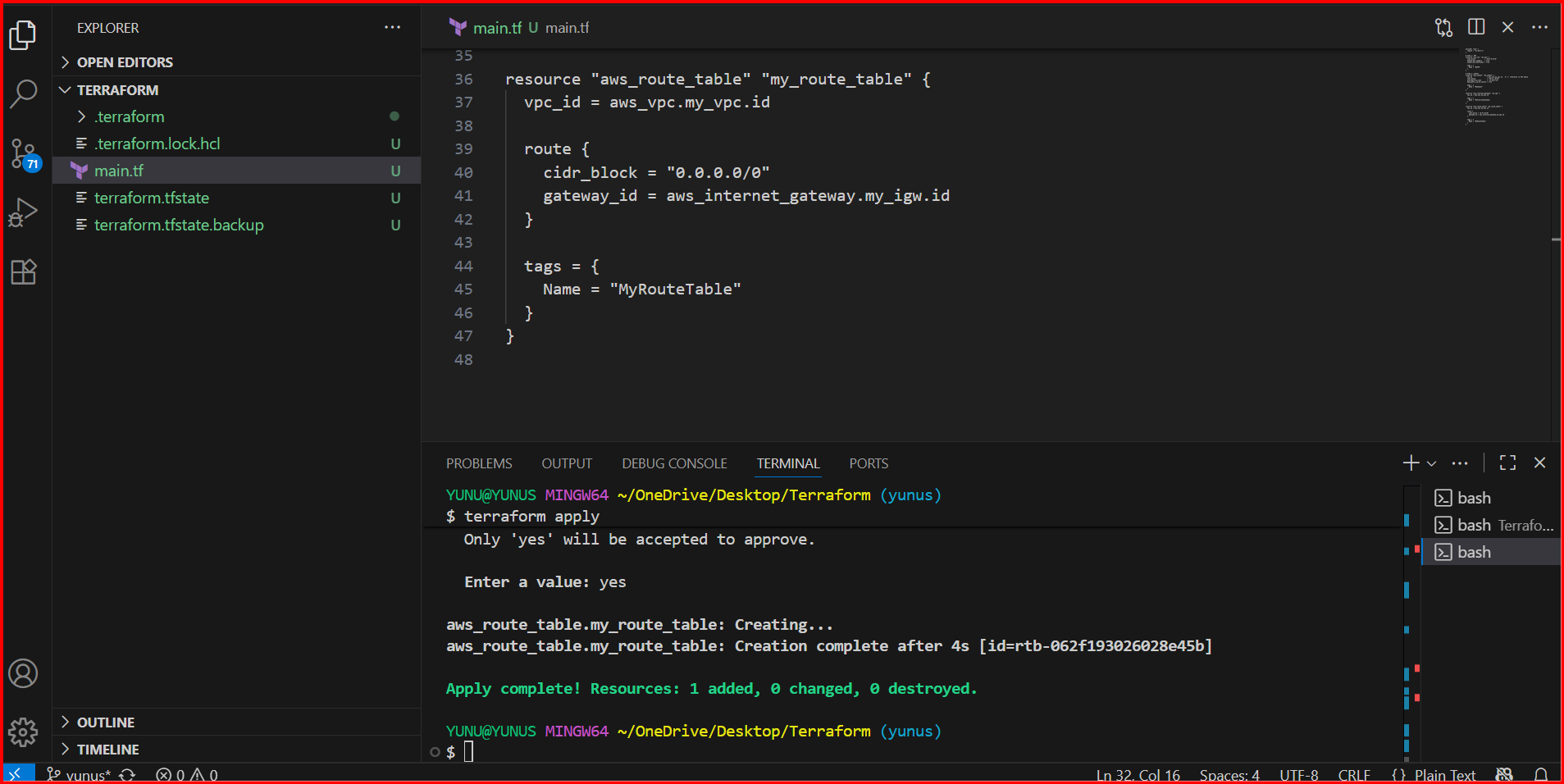
**}**

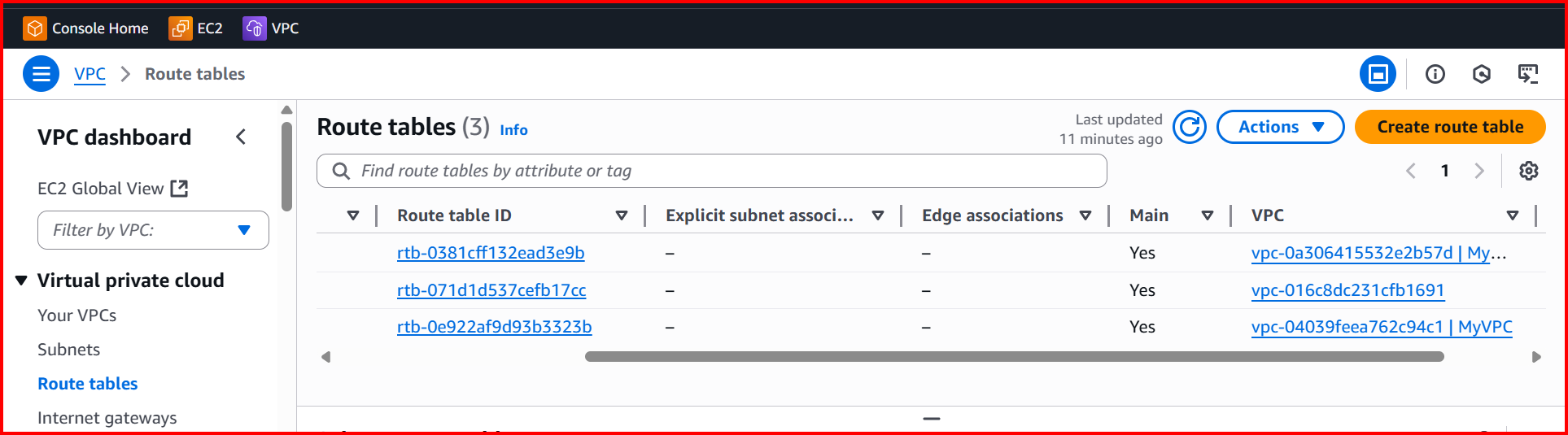
**tags = {**

**Name = "MyRouteTable"**

**}**

**}**

****

****

**Step 5: Associate Route Table with Subnet**

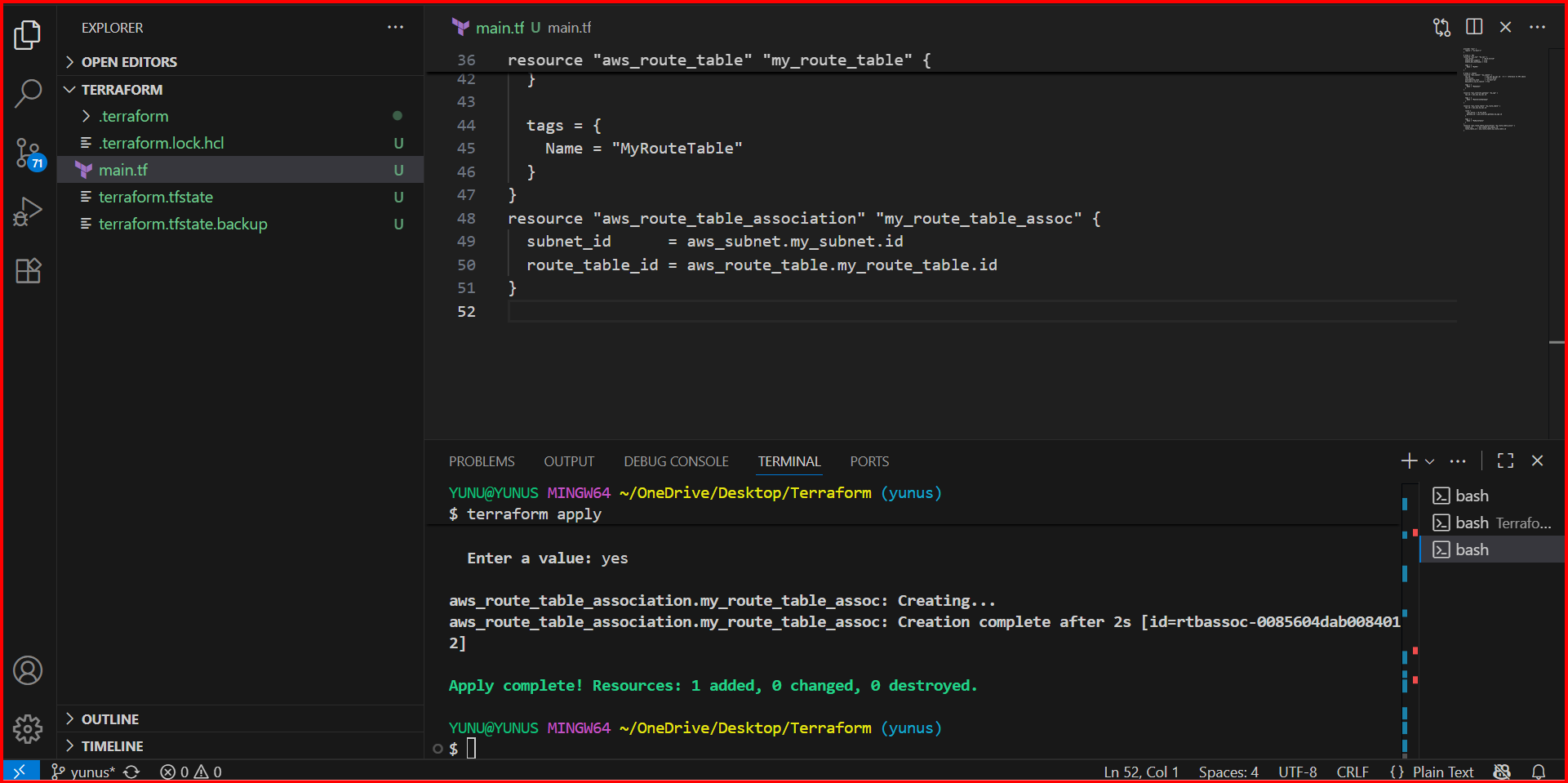
**Step1 / Step2 / Step3 /Step4 / Step5**

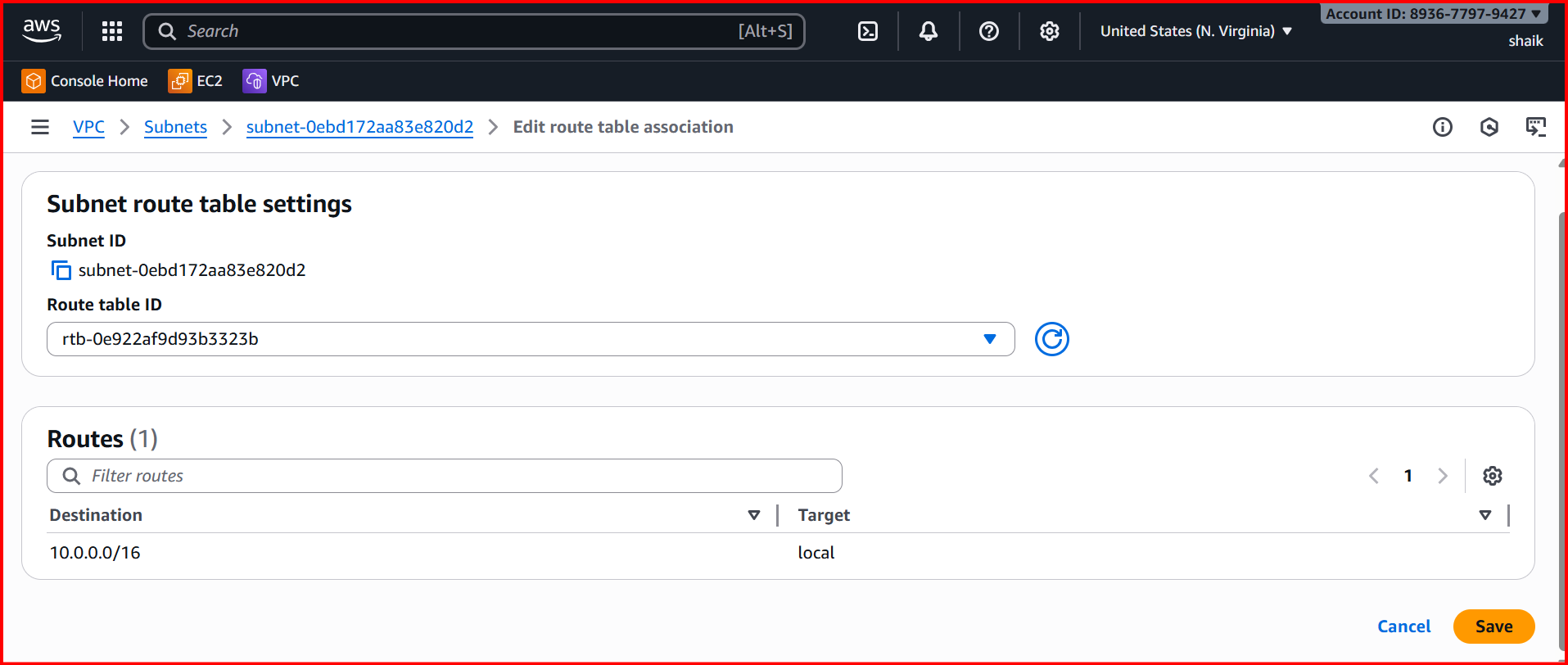
**resource "aws\_route\_table\_association" "my\_route\_table\_assoc" {**

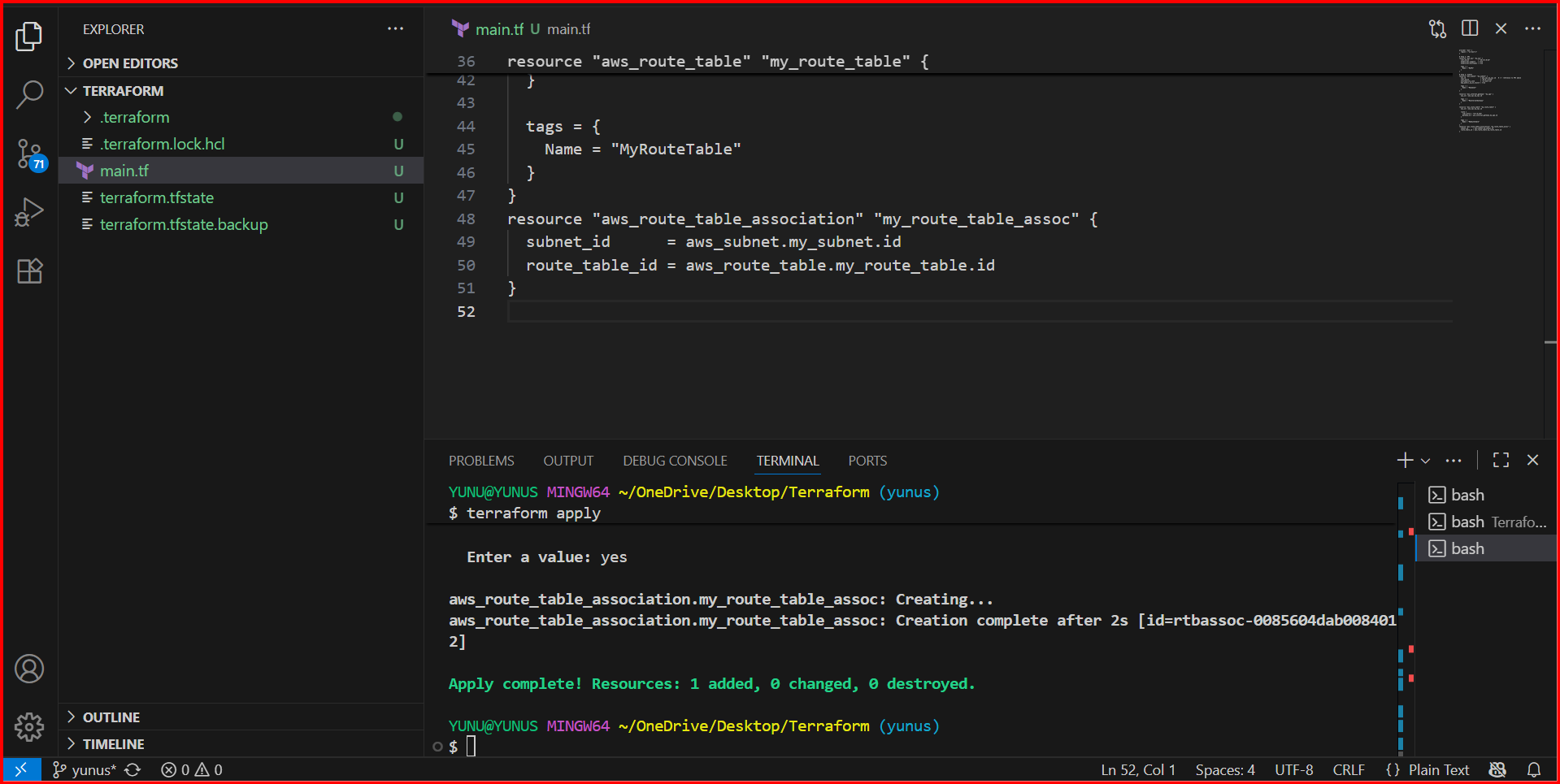
**subnet\_id = aws\_subnet.my\_subnet.id**

**route\_table\_id = aws\_route\_table.my\_route\_table.id**

**}**

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