Source Code to launch an EC2 instance using Terraform.

1. Cred.tf

```
provider "aws" {
    access_key = "ASIAY25YFBYPPD5NUIUN"
    secret_key = "paL/cOy9teGMMnwoUv4QcILKQ9IZ3x6zMSq8/Jn6"
    token =
```

"FwoGZXIvYXdzEKD///////wEaDAMF+4YIBCBxE7/xPCK7AS1x03t+ZuEWW5Jl mlveeK25EPvKajJzMCUXVNecM1XILFEmn/MHaxSNDK/QA+bv+mx/lUP8zudImX+k iean27ydx02br7z6FheGPDe9q00Fsx/WmhtqK2lM0BhbP0YmIU2zVvwigFzV4bpMP oPwjAop9zrWh8tD6x3y2nffU/dgQYwuGAJB8qSxDNuxdr0uMz3l9stRtTf0AdxGk1G8 mnp5dVxv0n87GAa1sQyodLg94mbzXth/VEF70dAo6eLirgYyLV/qeJ3TjL3XcRi4FSE gasMByiPWbhAypbEW+9gmL1JTPktZarF2AK5w+yJBwQ=="

```
region = "us-east-1"
```

2. Main.tf

```
resource "aws_securtiy_group" "allow_tls" {
                  = "allow tls"
       name
       description = "allow for ec2 instance"
       vpc id
                  = "vpc-0b90f11ec5c002d7b"
     ingress {
      description = "tls port 8080 for ec2 instance"
      from port = "8080"
      to port
                   = "8080"
                   = "tcp"
      protocol
      cidr_blocks = ["0.0.0.0/0"]
egress {
  from port = 0
  to port
               = 0
               = "-1"
  protocol
  cidr blocks = ["0.0.0.0/0"]
```

```
}
tags = {
 Name = "For SL Project"
}
}
                  resource "aws_instance" "TerraVM" {
                     ami
                              = "ami-0c7217cdde317cfec"
                     instance_type = "t2.micro"
                     key_name = "Terr"
                              = {
                     tags
                              = "EC2"
                     name
                               = "Amar"
                     owner
                          }
                     vpc_security_group_ids = ["${aws_security_group.allow_tls.id}"]
```

• terraform init

}

- terraform validate
- terraform plan
- terraform apply

Run below mentioned commands on newly created Ec2 instance

- 1. Sudo apt-get update
- 2. Sudo apt-get install openjdk-11-jdk
- 3. Sudo apt-get install maven
- **4.** To install Jenkins, we need to run curl command which is mentioned below.

curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee /usr/share/keyrings/jenkins-keyring.asc > /dev/null echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] https://pkg.jenkins.io/debian-stable binary/ | sudo tee /etc/apt/sources.list.d/jenkins.list > /dev/null sudo apt-get update sudo apt-get install jenkins