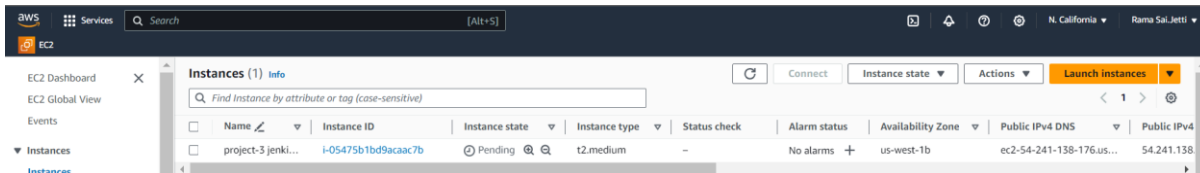


This project all about the **terraform integrate with the Jenkins.**

## Prerequisites:

- lunch instance.
- This instance must have the installed Jenkins, terraform.



## Script to install the Jenkins & terraform:

*Then connect the instance. Then run this script using `./Jenkins.sh`*

### vi Jenkins.sh

```
apt update -y
```

```
apt install default-jdk -y
```

```
sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
```

```
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
```

```
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 -y
```

### #Terraform installtion

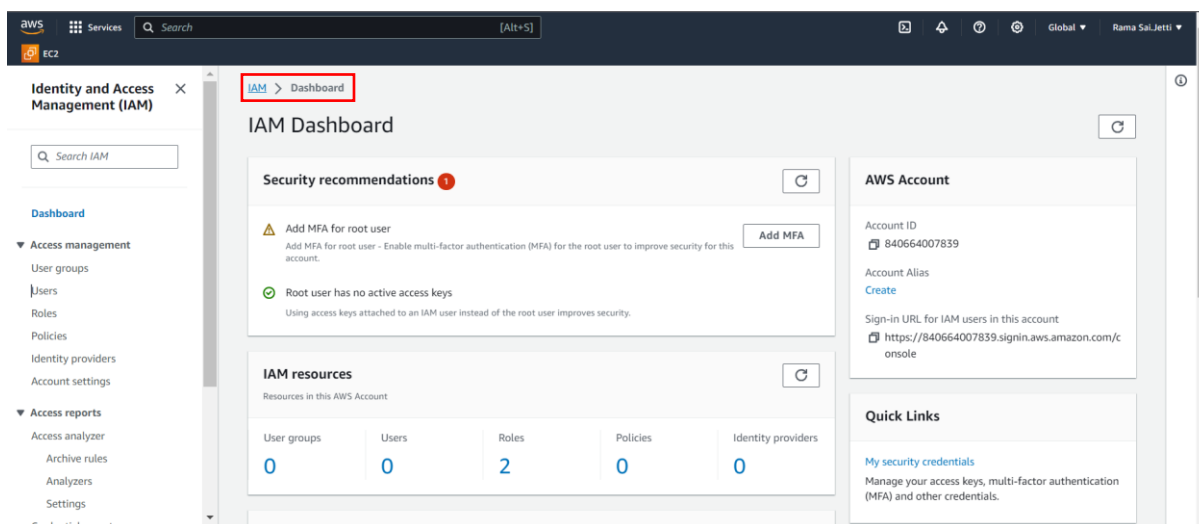
```
wget -O- https://apt.releases.hashicorp.com/gpg | sudo gpg --dearmor -o  
/usr/share/keyrings/hashicorp-archive-keyring.gpg
```

```
echo "deb [signed-by=/usr/share/keyrings/hashicorp-archive-keyring.gpg]  
https://apt.releases.hashicorp.com $(lsb_release -cs) main" | sudo tee  
/etc/apt/sources.list.d/hashicorp.list
```

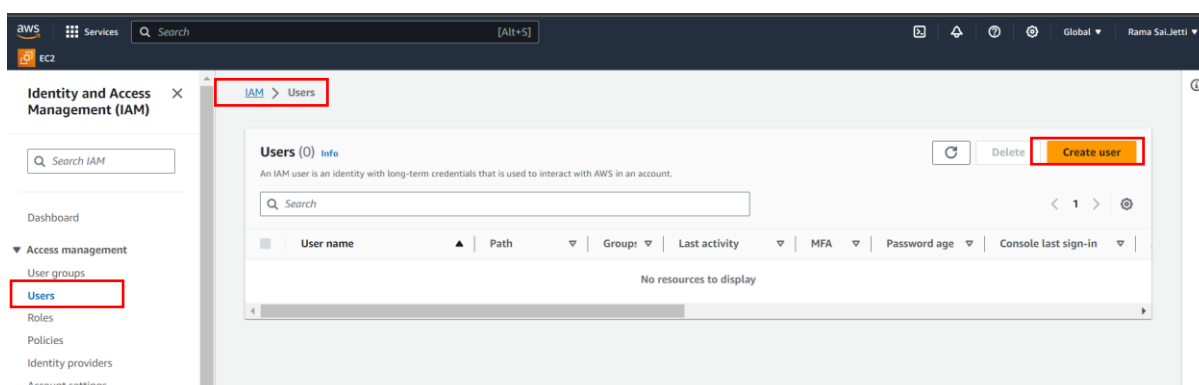
```
sudo apt update && sudo apt install terraform
```

**Note:** to check the Jenkins& terraform on instance check **versions** or type **whereis Jenkins or terraform.**

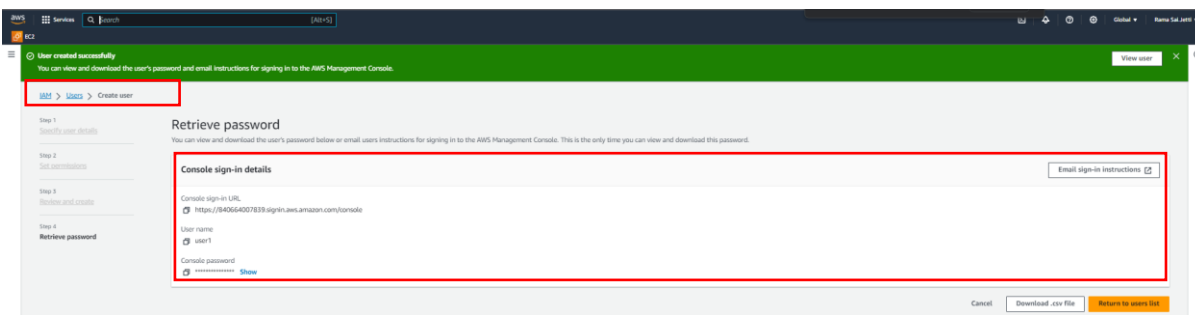
After that create a IAM user, click on user follow below steps:



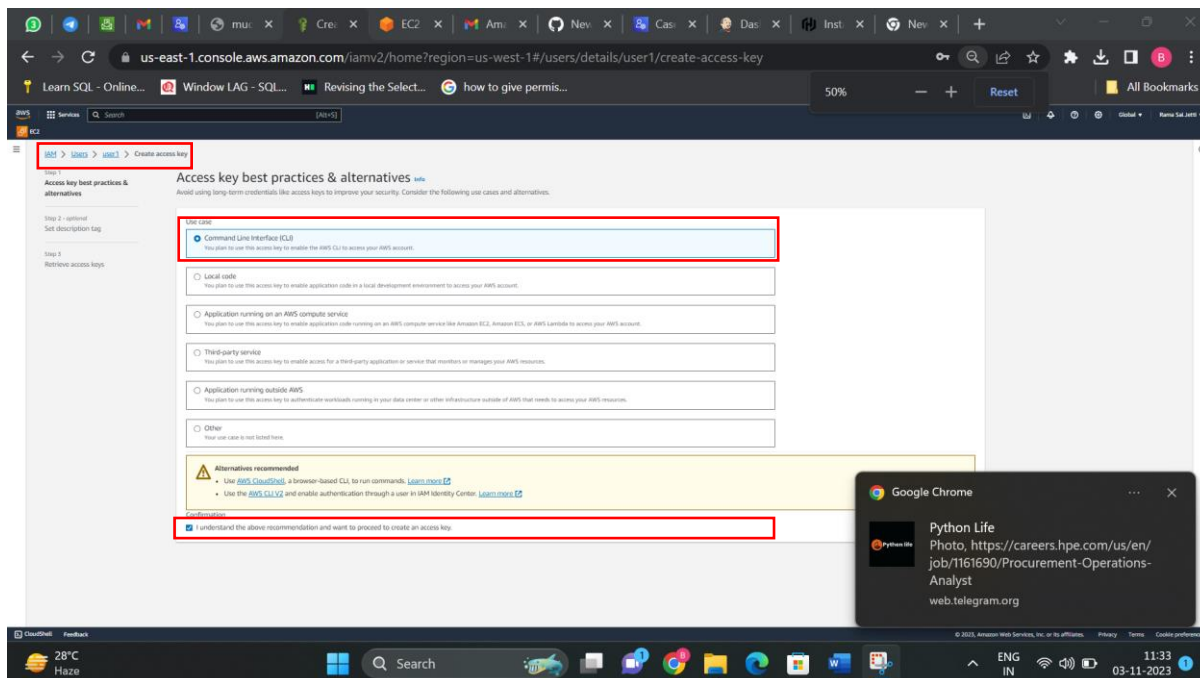
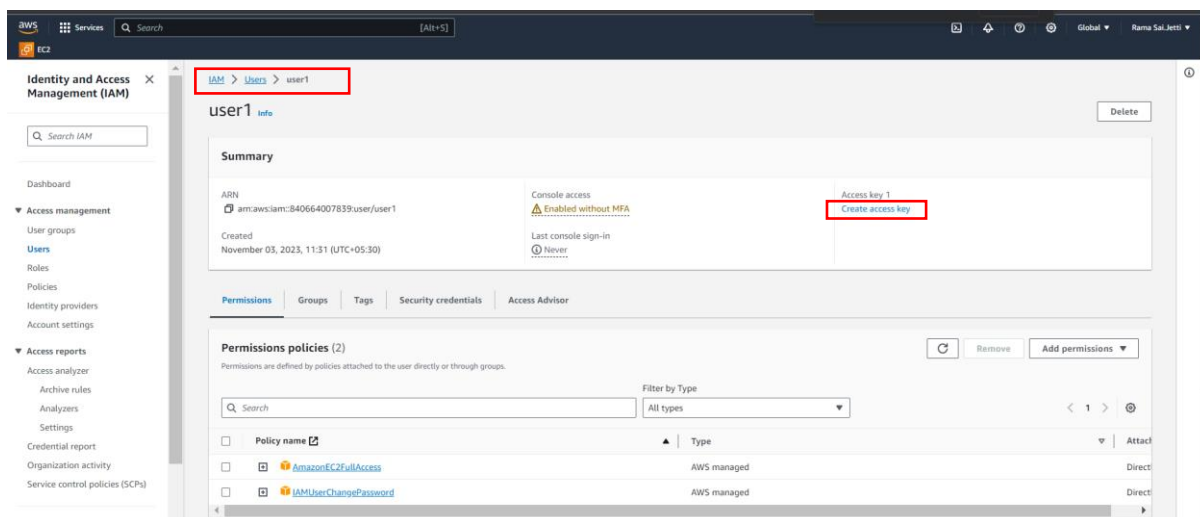
Create user here



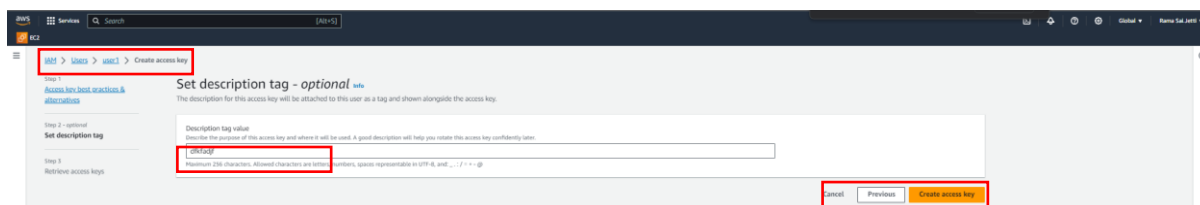




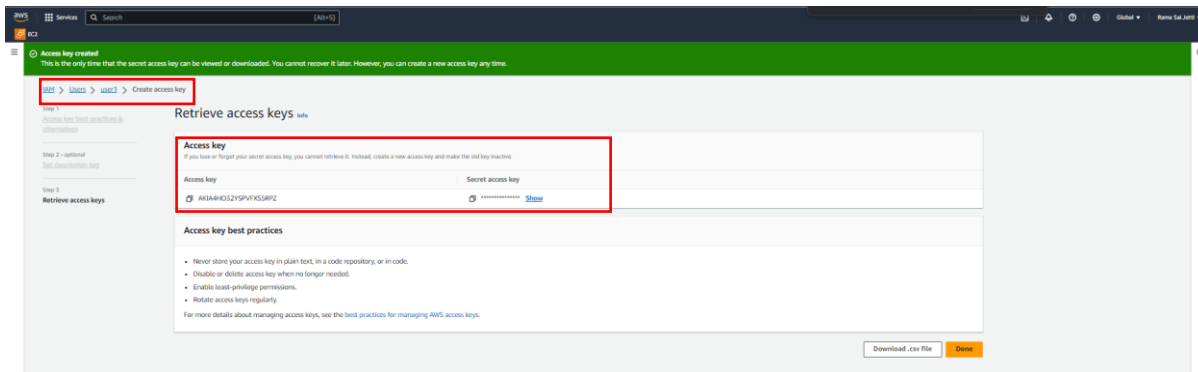
## Create access key



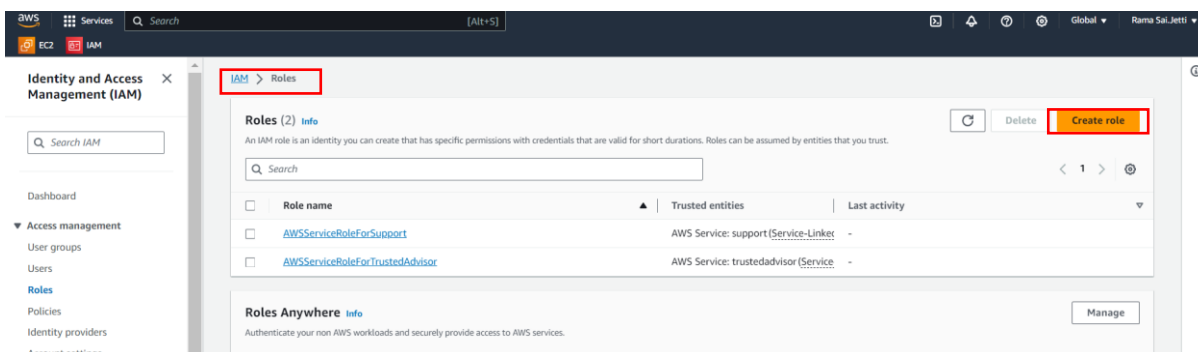
## Click on the create access key



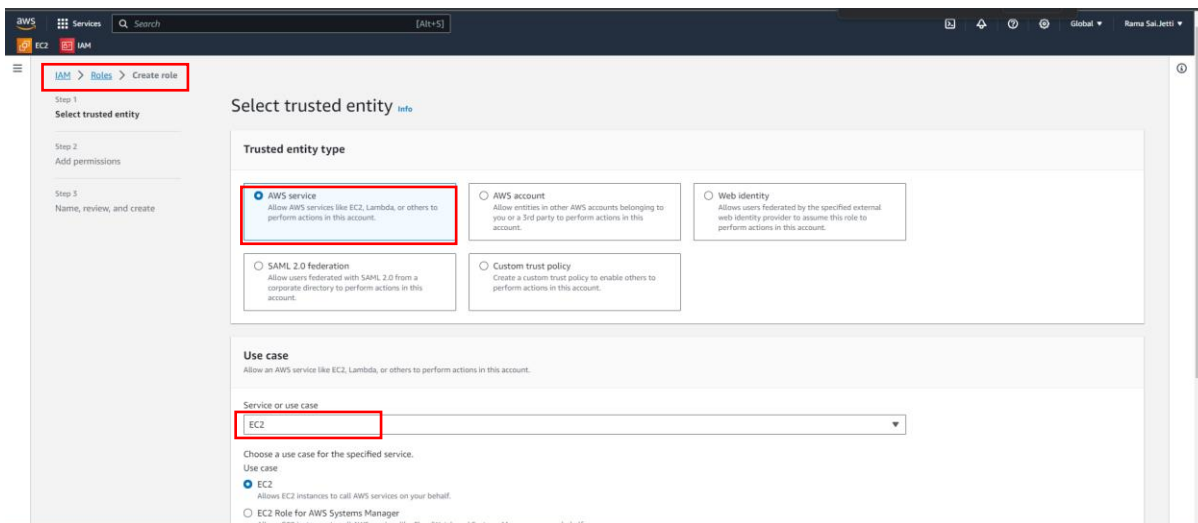
# Here can get the access key & secret access key

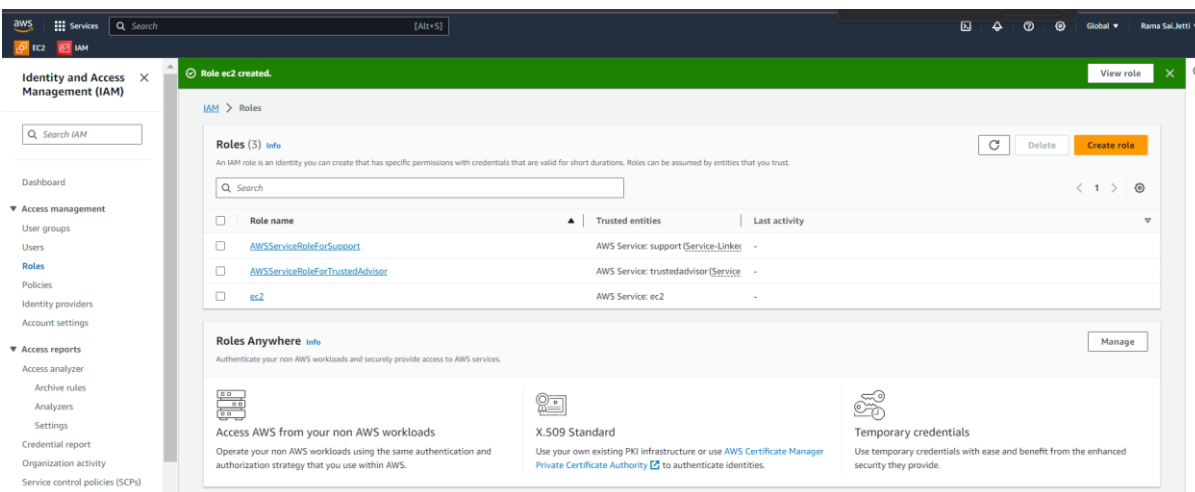
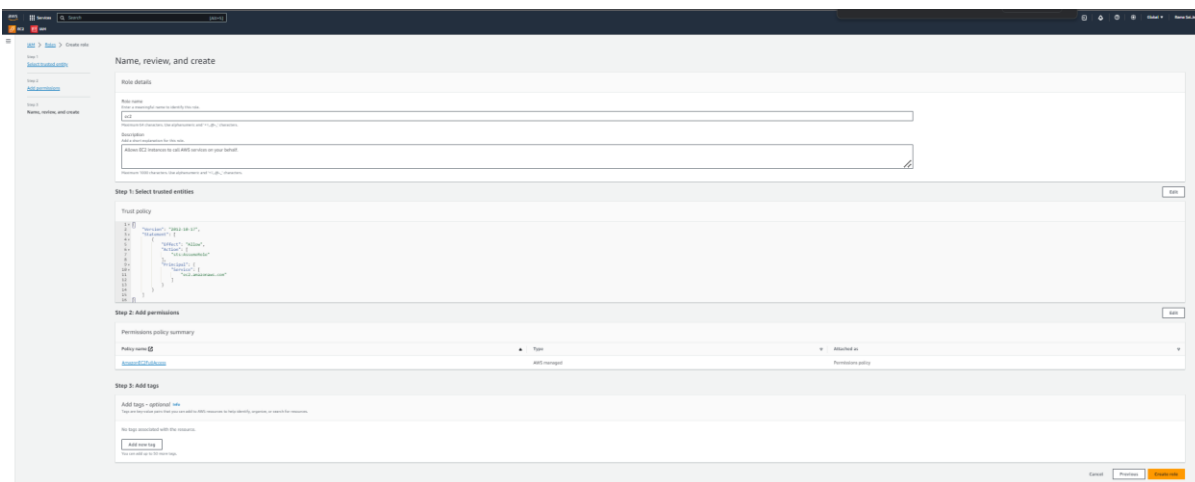
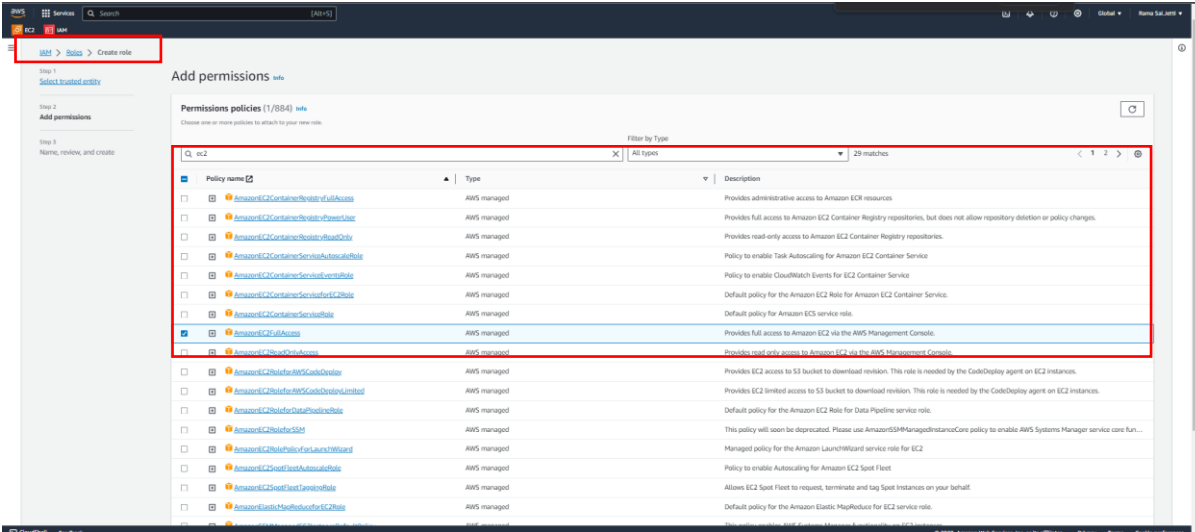


# Then create role

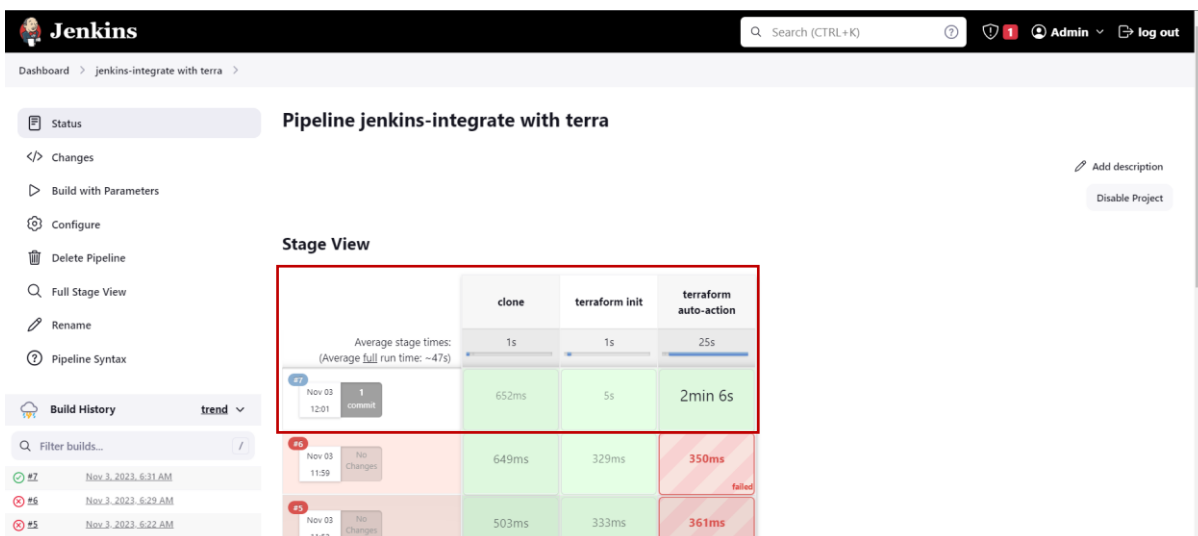
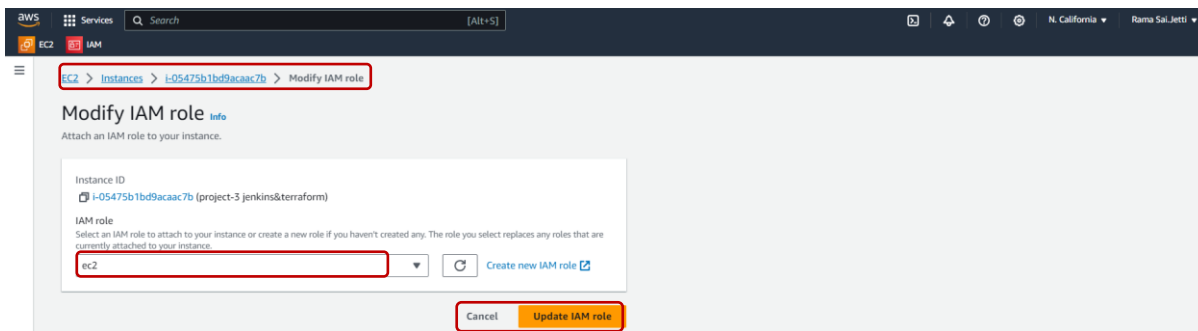
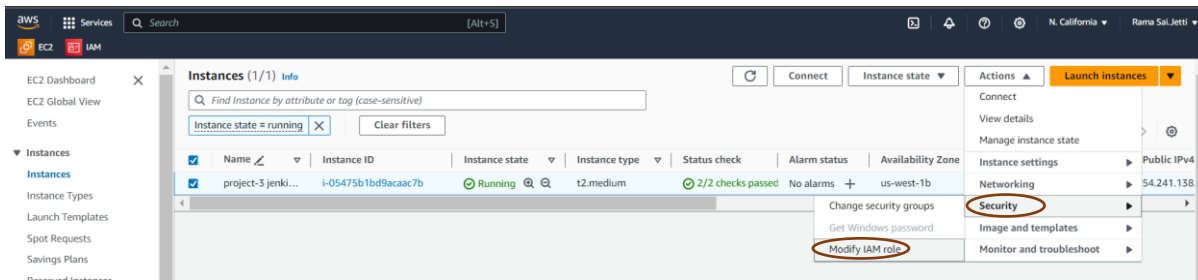


# Follow the bellow steps





After create the role, attach IAM role to the instance.



Here the Jenkins script for pipeline:

```
pipeline {
  agent any
  stages{
    stage("clone"){
      steps{
        git "https://github.com/Ganeshbayya/prtggit.git"
      }
    }

    stage('terraform init'){
      steps{
        sh 'terraform init'
      }
    }
  }
}
```

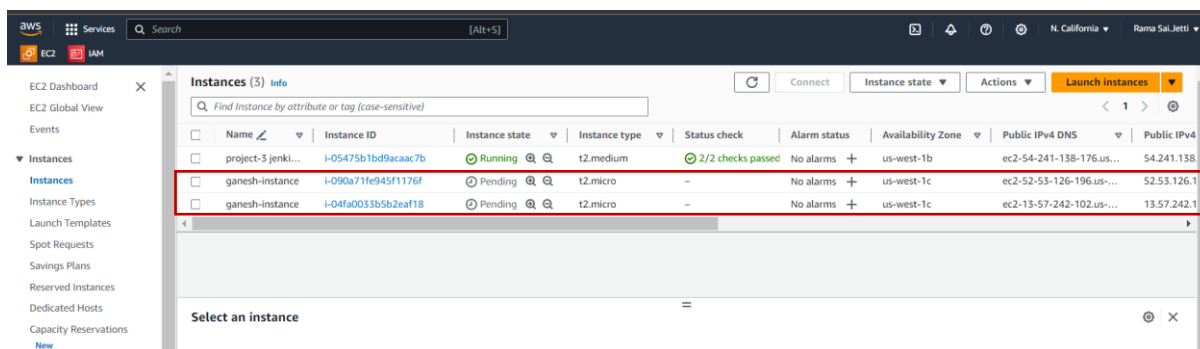
```

    }
  }

  stage('terraform auto-action'){
    steps{
      echo 'terraform action is --> ${action}'
      sh ('terraform ${action} --auto-approve')
    }
  }
}
}

```

Here 2 instances created through terraform script, using Jenkins pipeline



## Here is (IAC)

```

provider "aws" {
  region = "us-west-1"
  access_key = "AKIA4HO32YSPVFXxxxxx"
  secret_key = "ez4mNis+PVwoeYd+9G/a6vYun+v2iuatSJvxxxxx"
}

resource "aws_instance" "ganesh" {
  ami = "ami-0cbd40f694b804622"
  instance_type = "t2.micro"
  count = 2
  tags = {
    Name = "ganesh-instance"
  }
}

```

**NOTE:** Don't Expose Your **access\_key** & **secret key**, it's leads to suspend aws account

-----EnD-----



