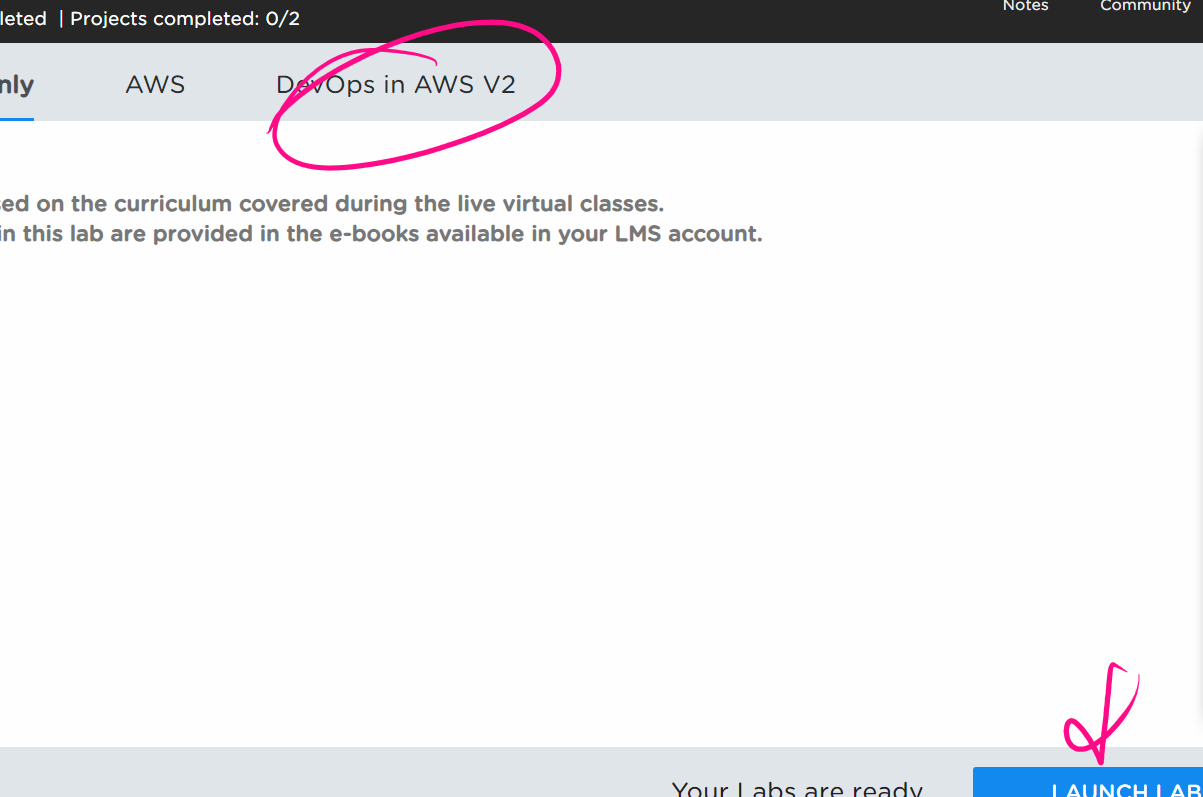
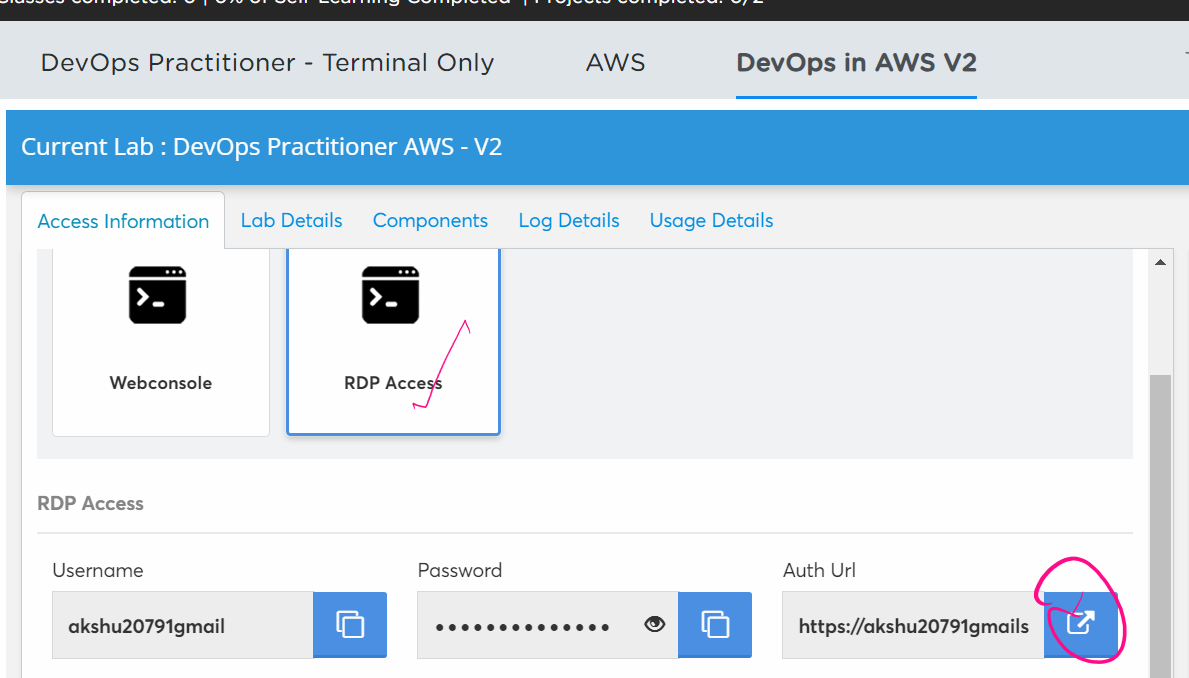
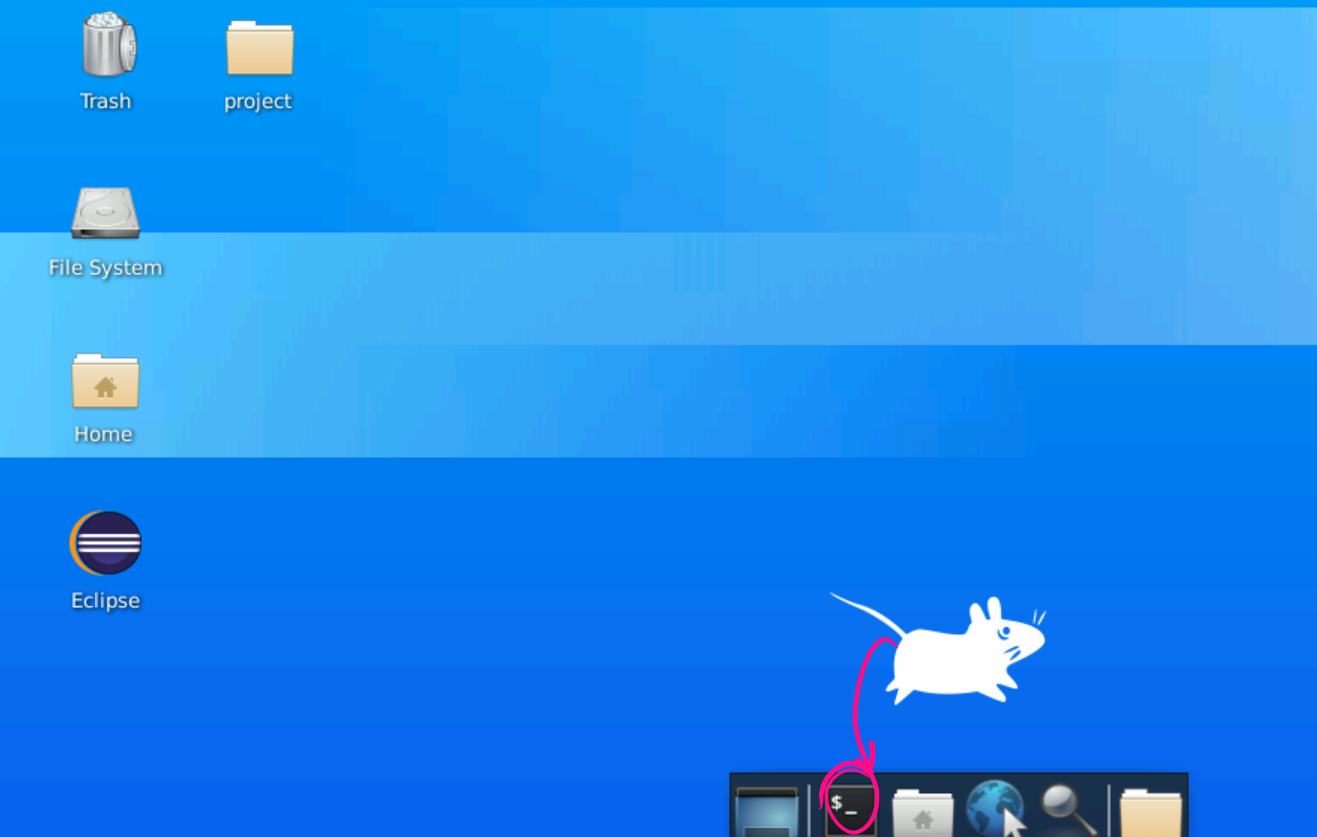
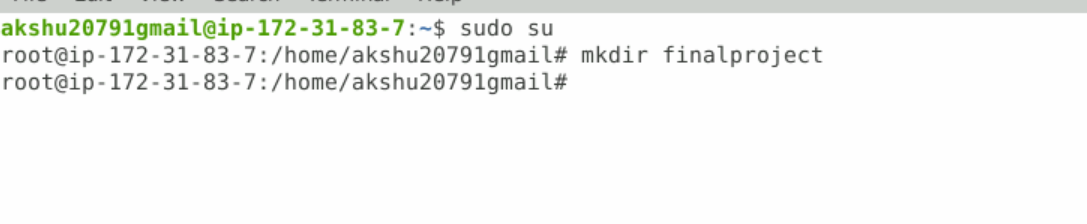
**Automating Infrastructure using Terraform**





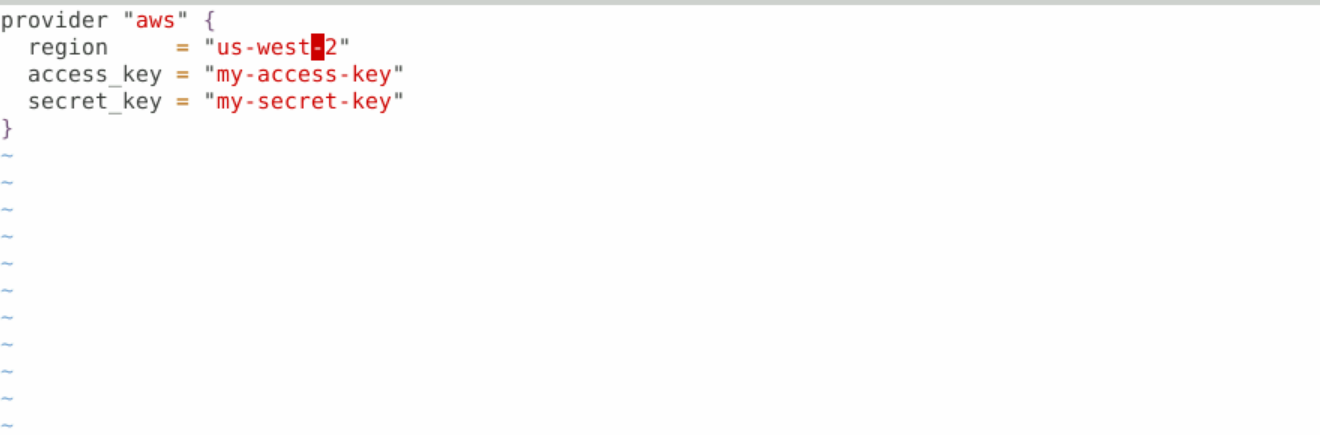




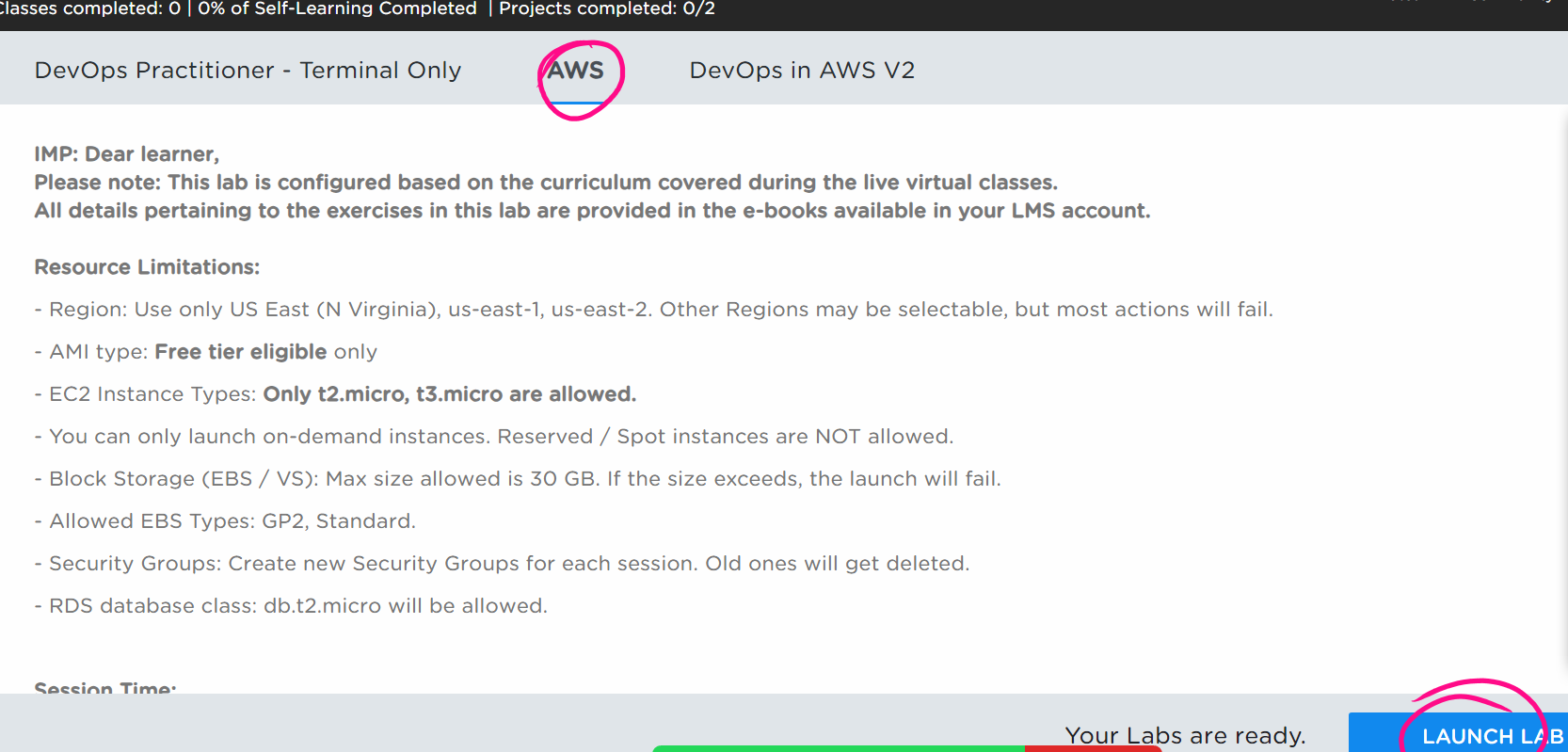
cd finalproject

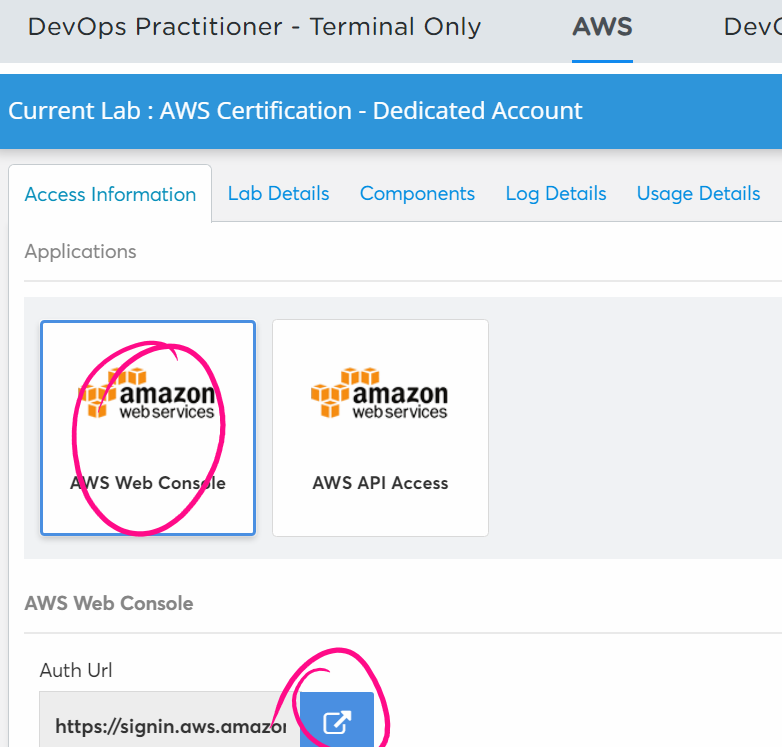


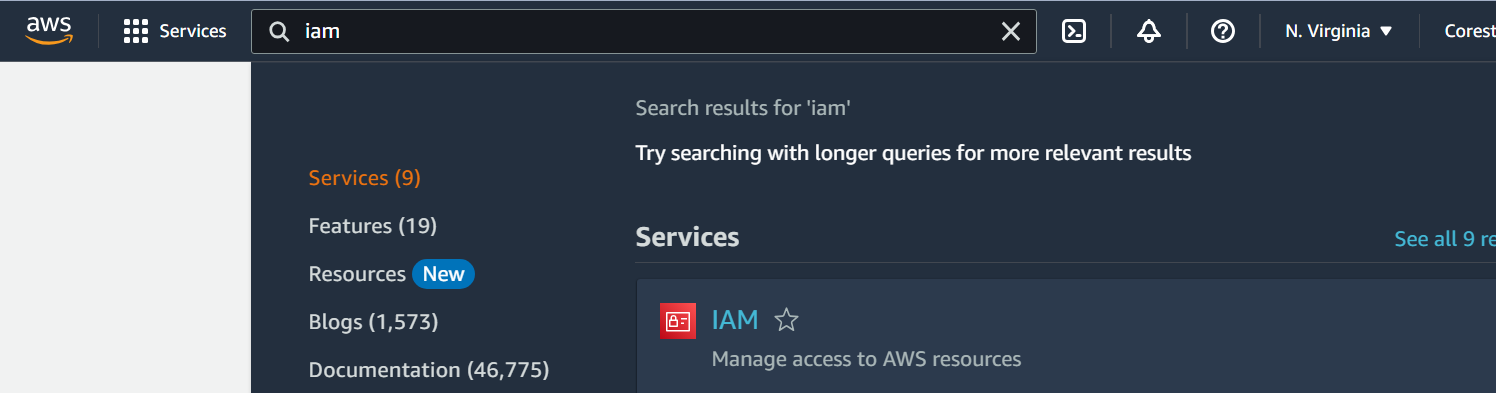
vi ec2.tf

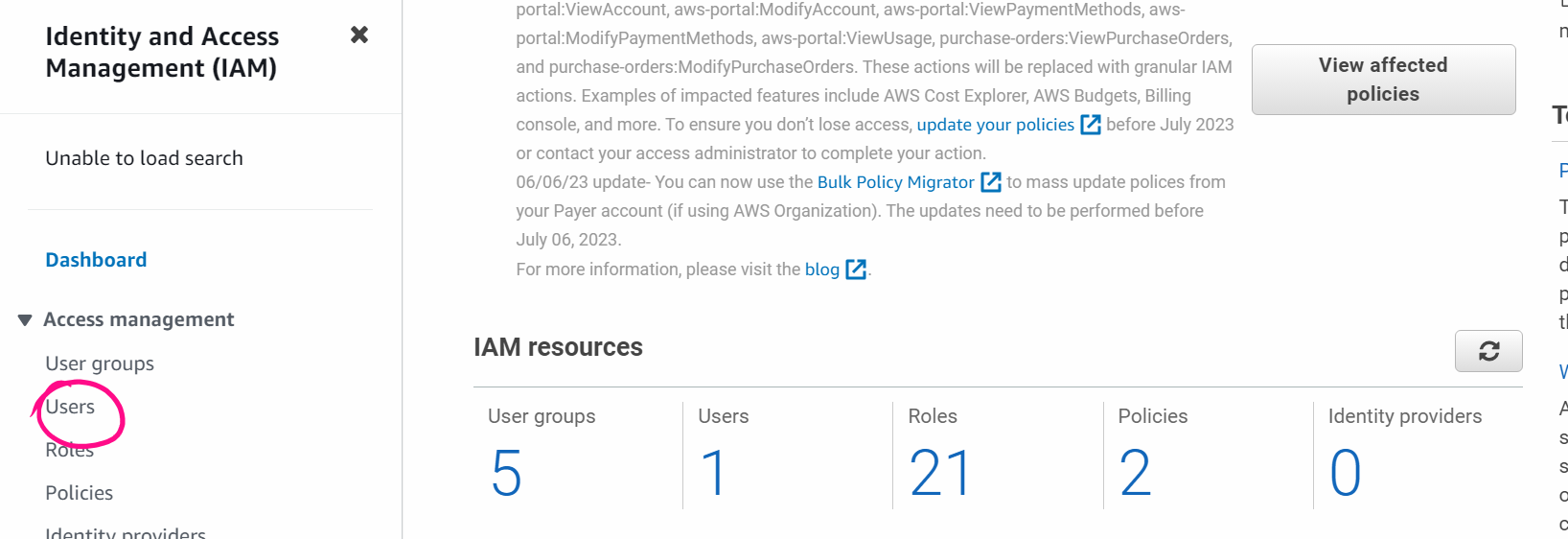


Now we will go to aws account and create iam account to create access key and secret access key

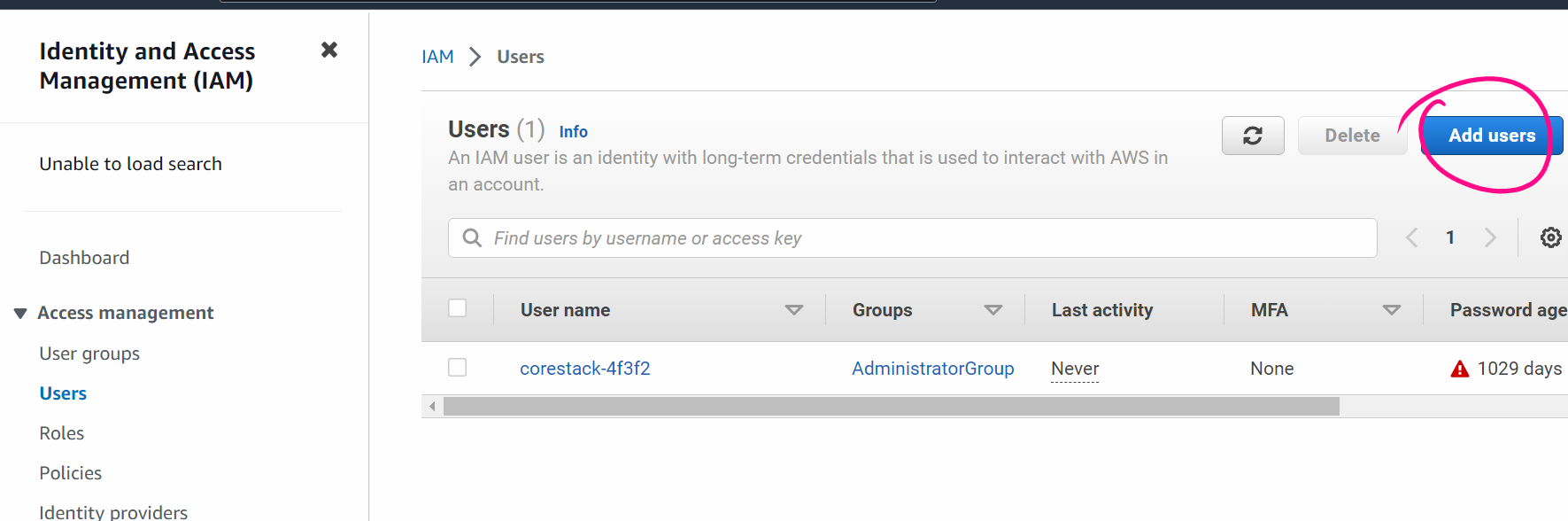


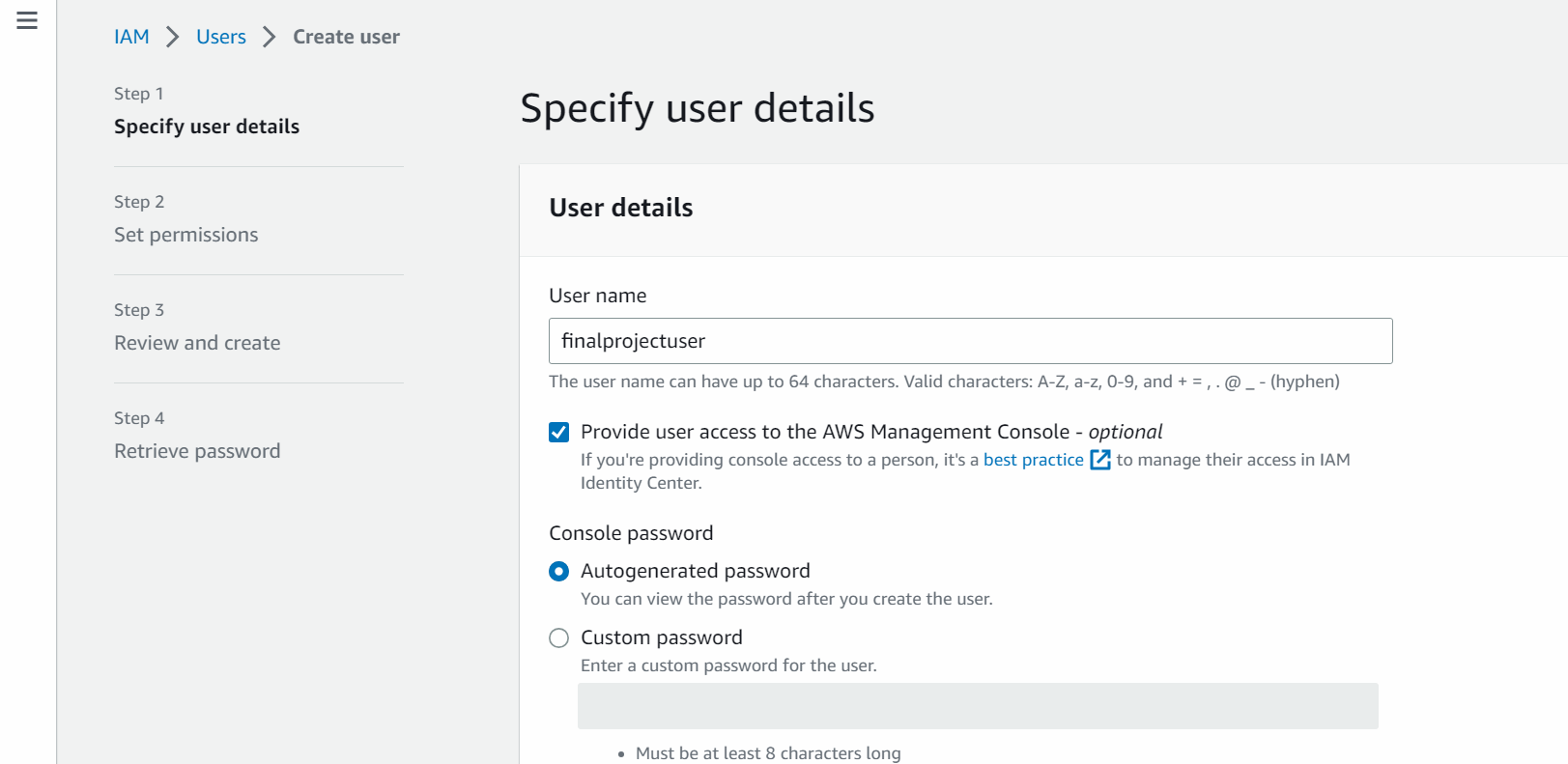




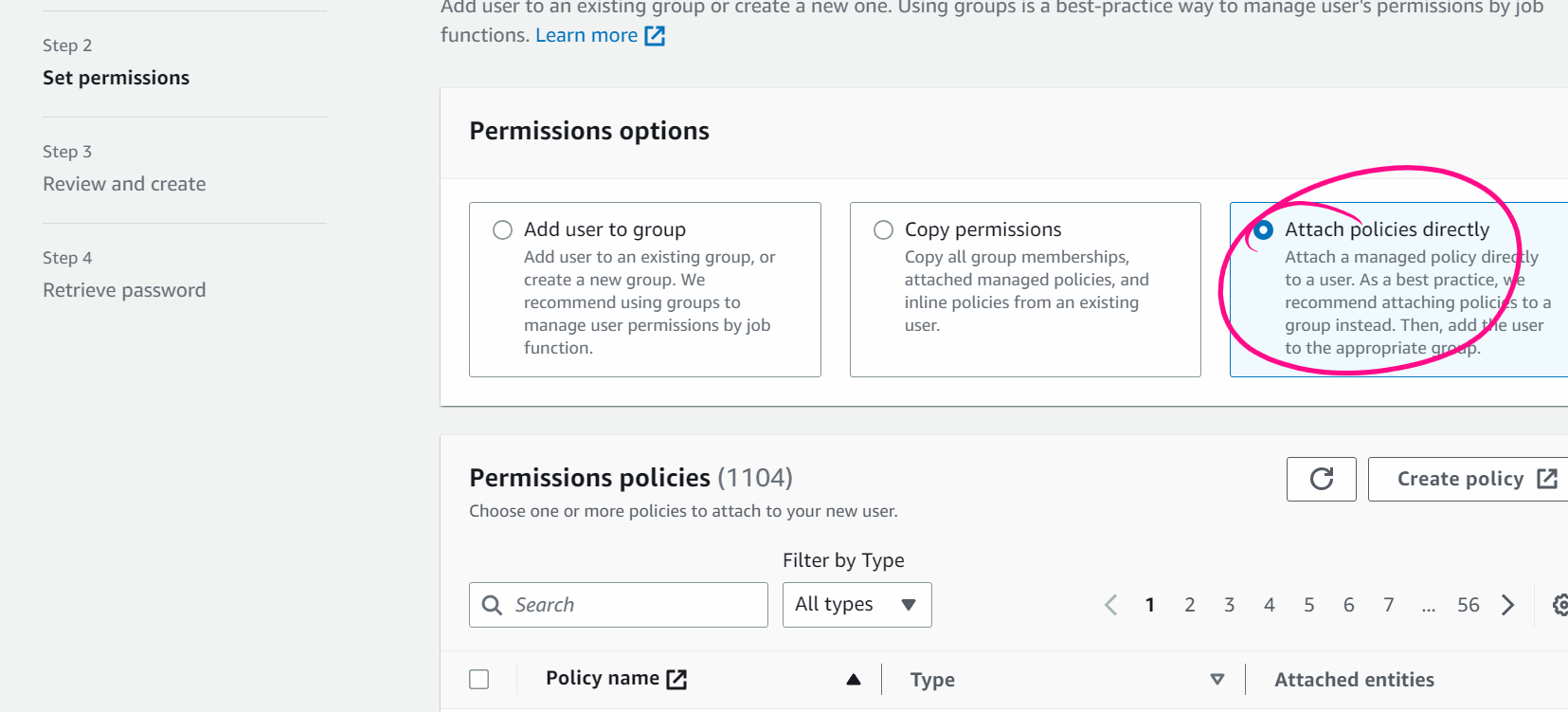


##

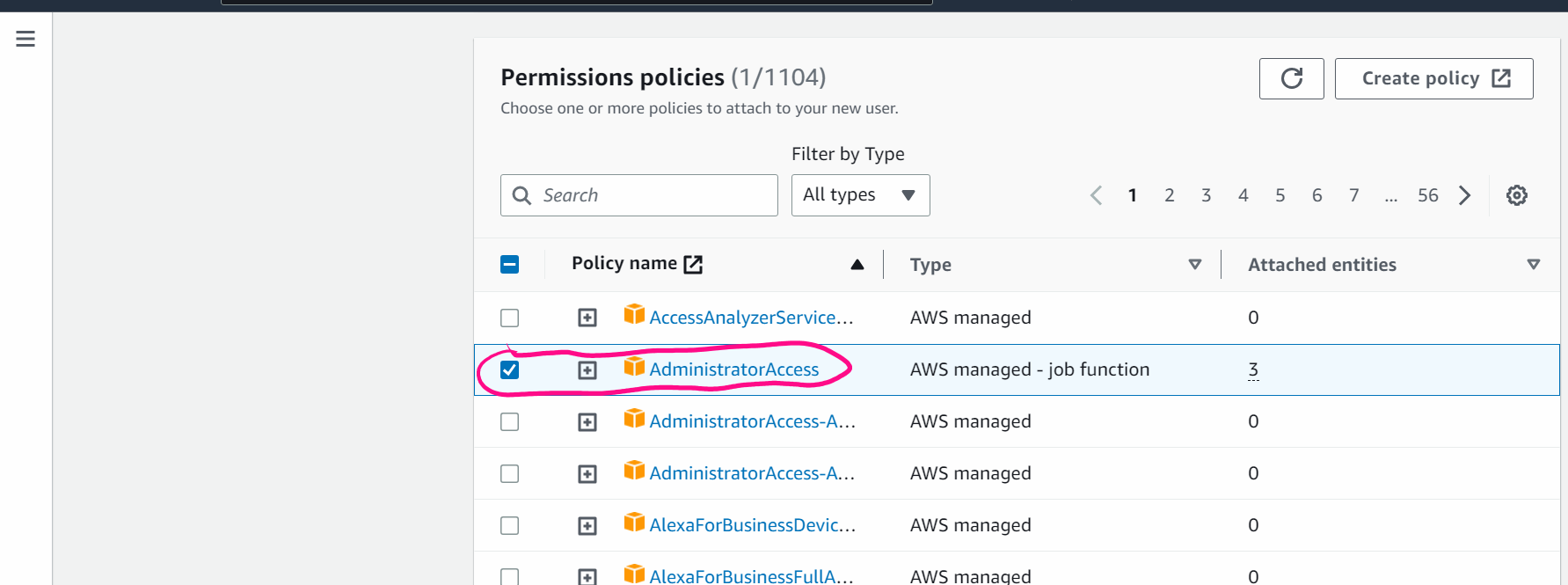




Next

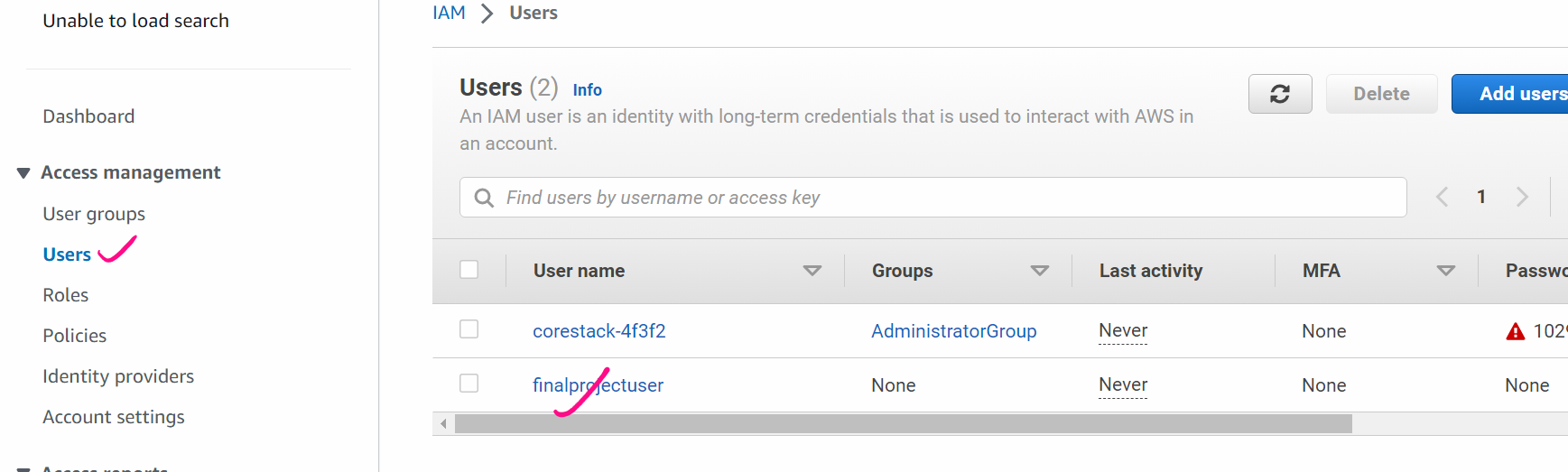


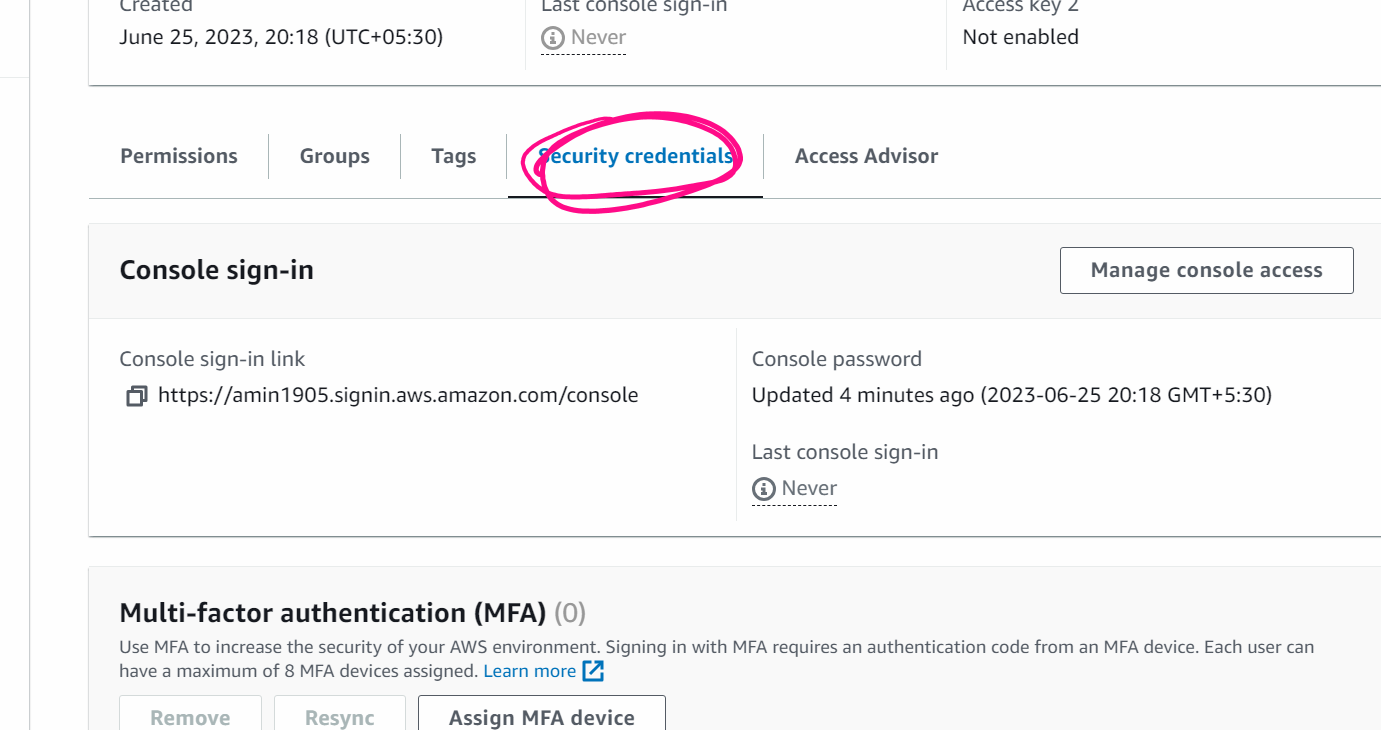
SELECT ADMINISTRATOR ACCCESS



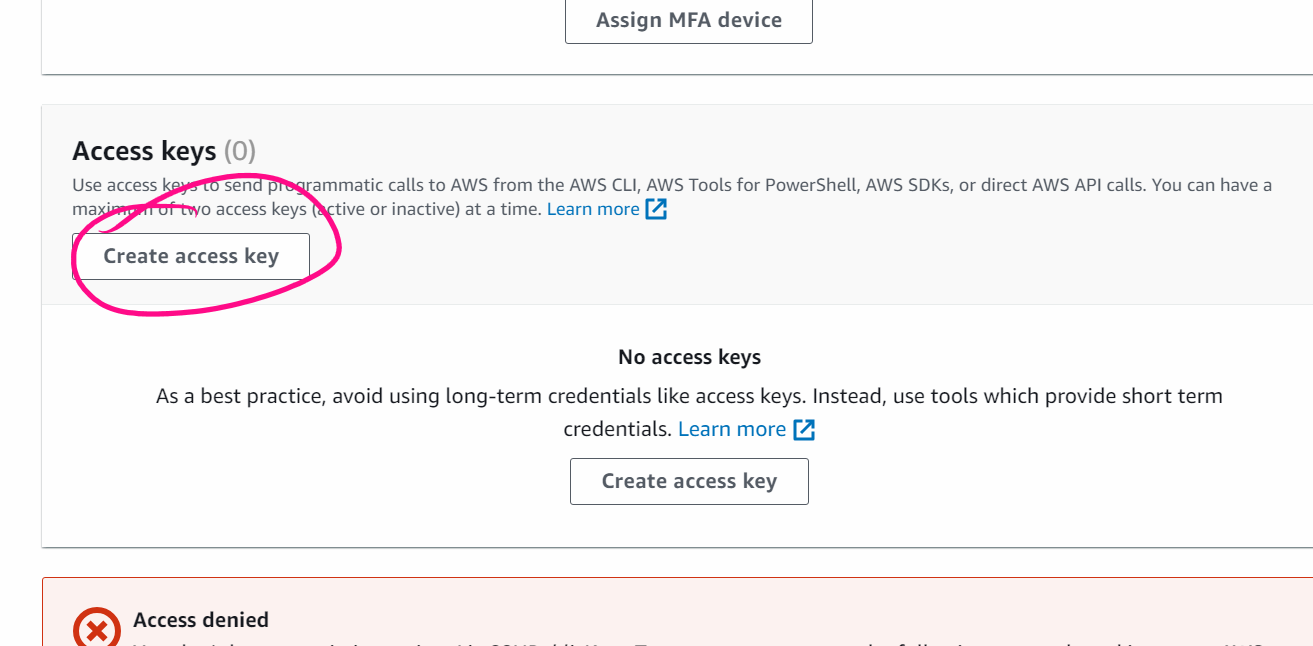
CREATE USER

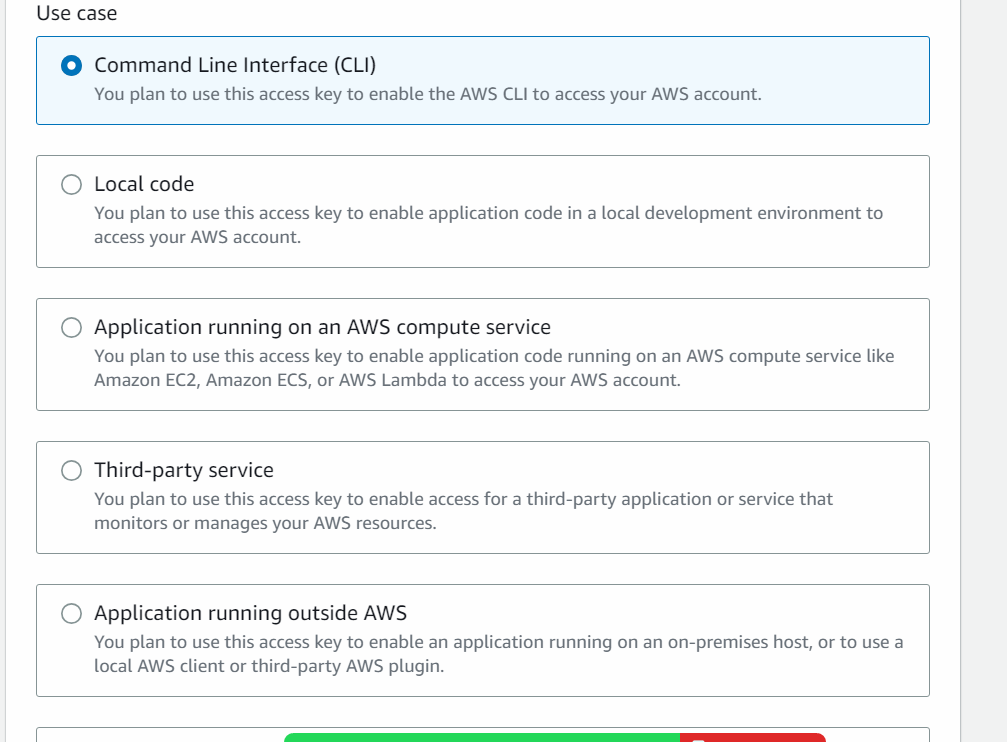
Go back to iam

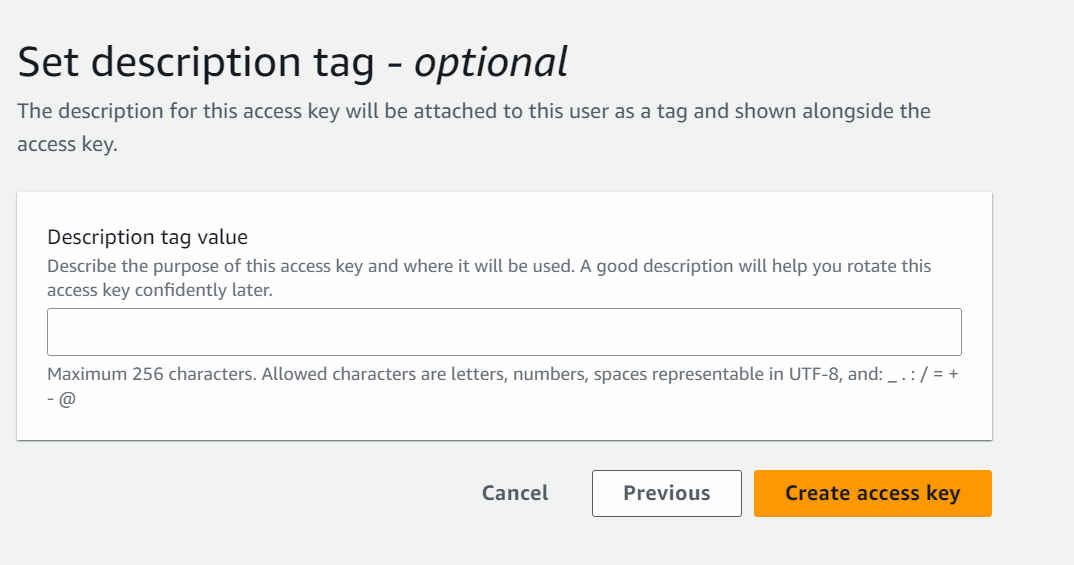




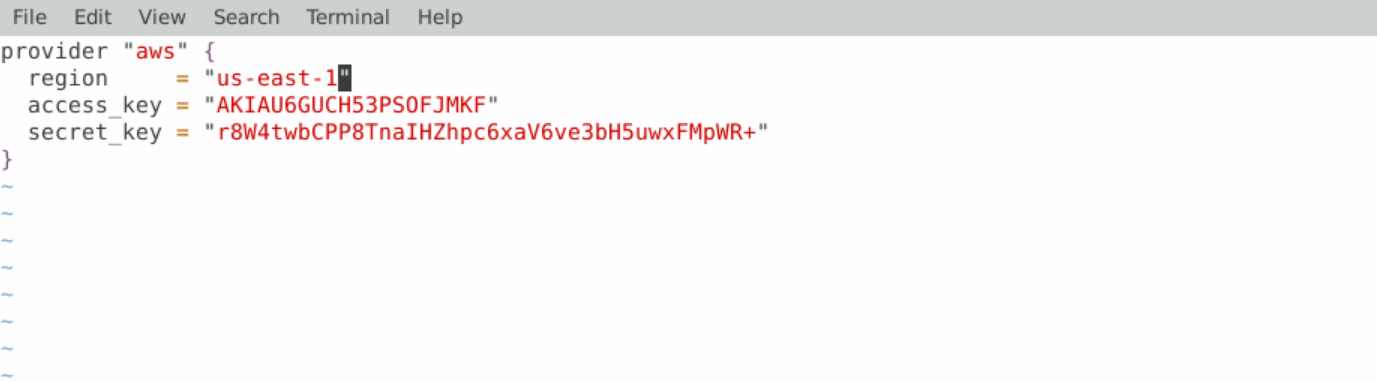
##









##  
  
  
  


provider "aws" {

region = "us-east-1"

access\_key = "AKIAU6GUCH53PSOFJMKF"

secret\_key = "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"

}

resource "aws\_instance" "web" {

ami = "ami-053b0d53c279acc90"

instance\_type = "t3.micro"

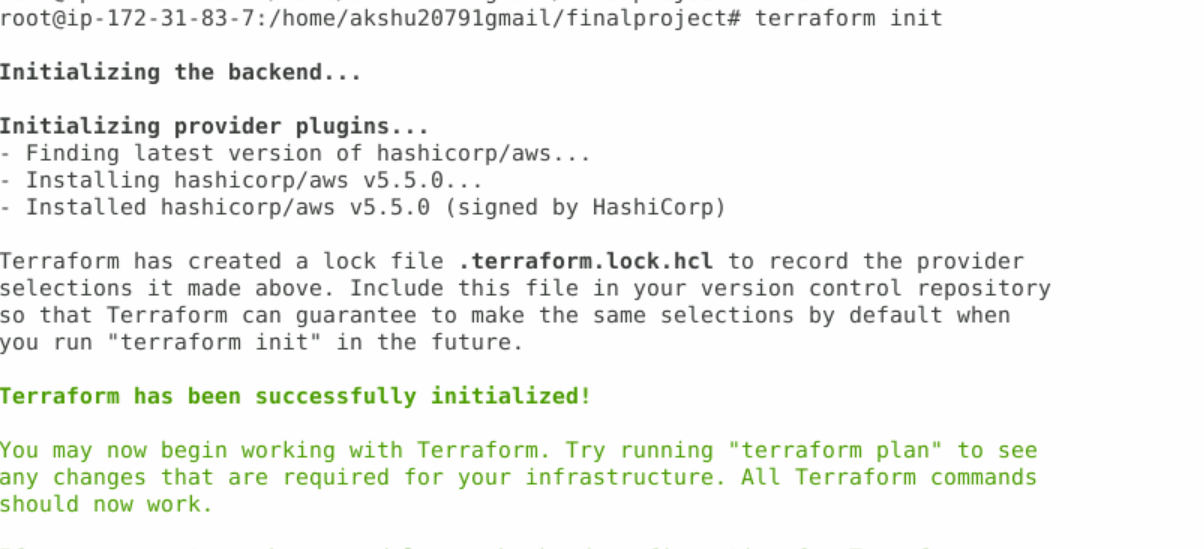
tags = {

Name = "Projectlab"

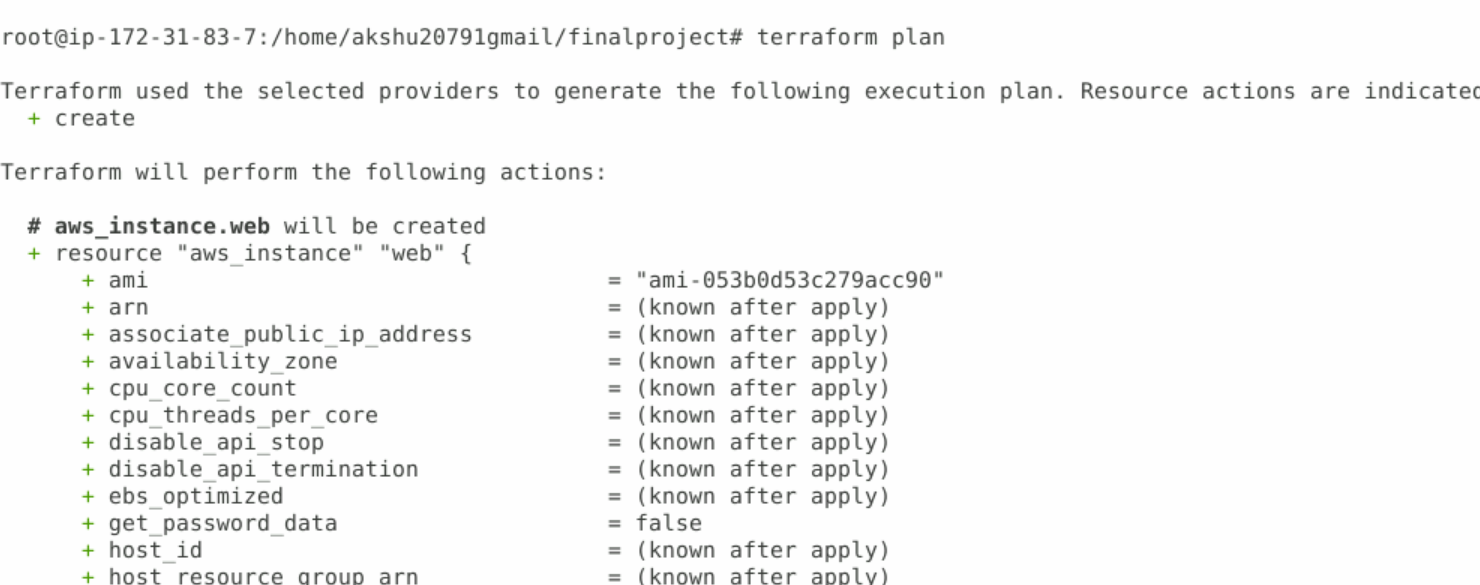
}

}

terraform init

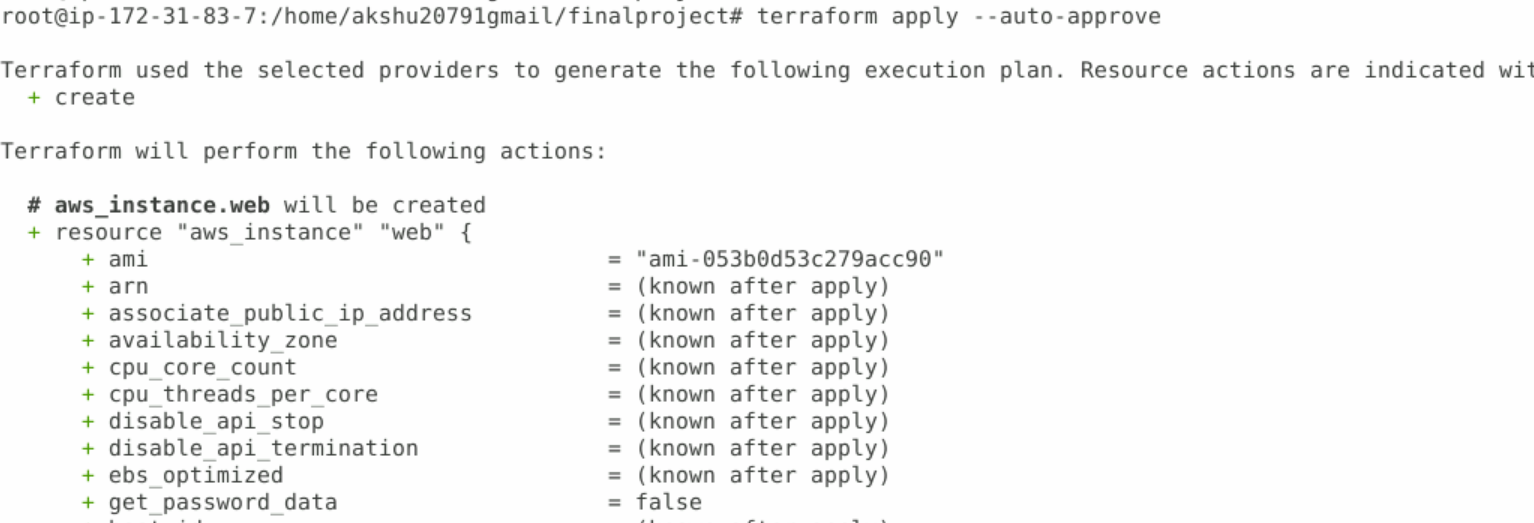


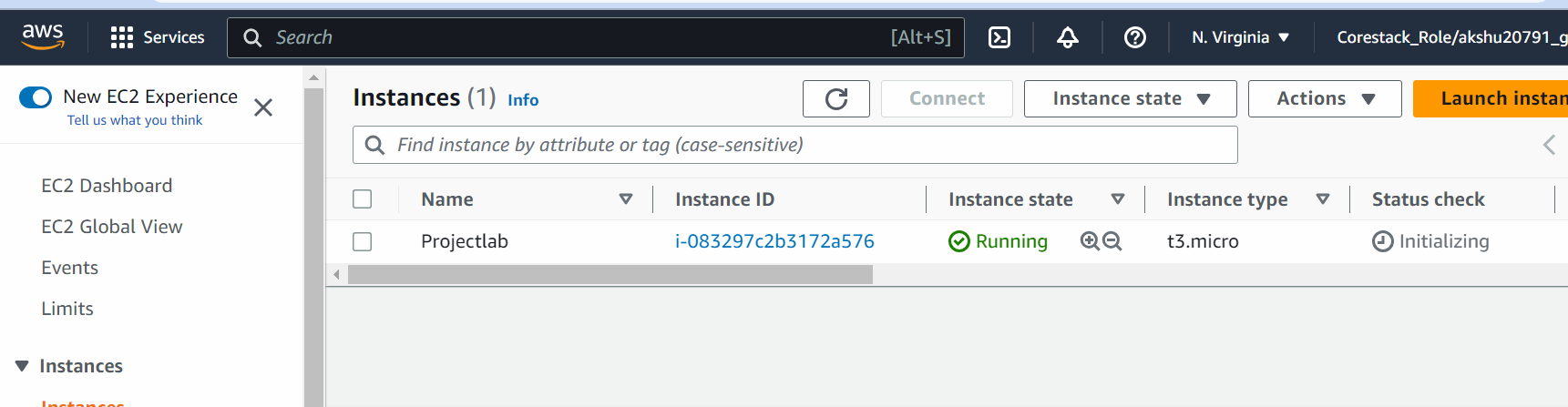


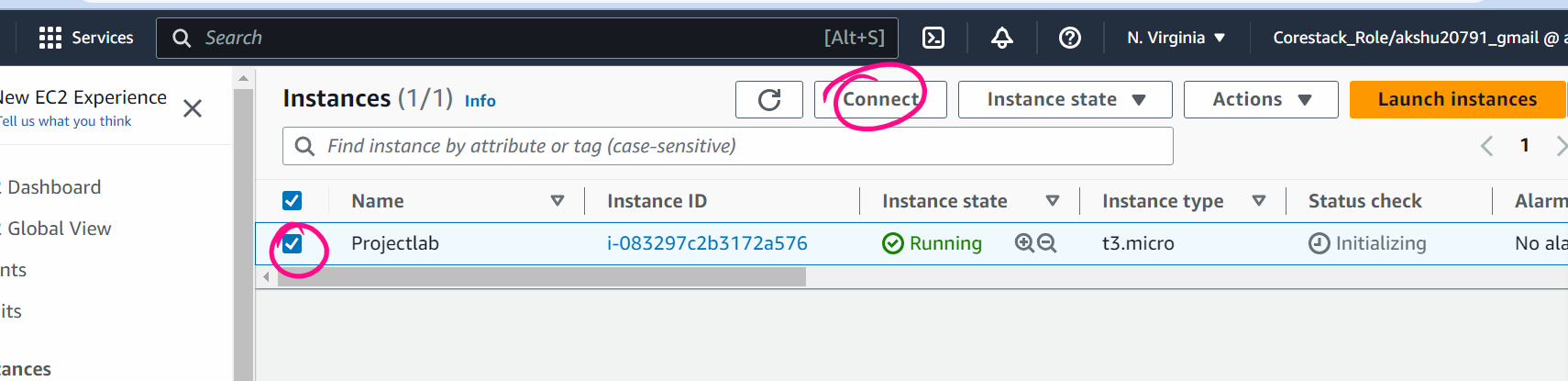


terraform plan

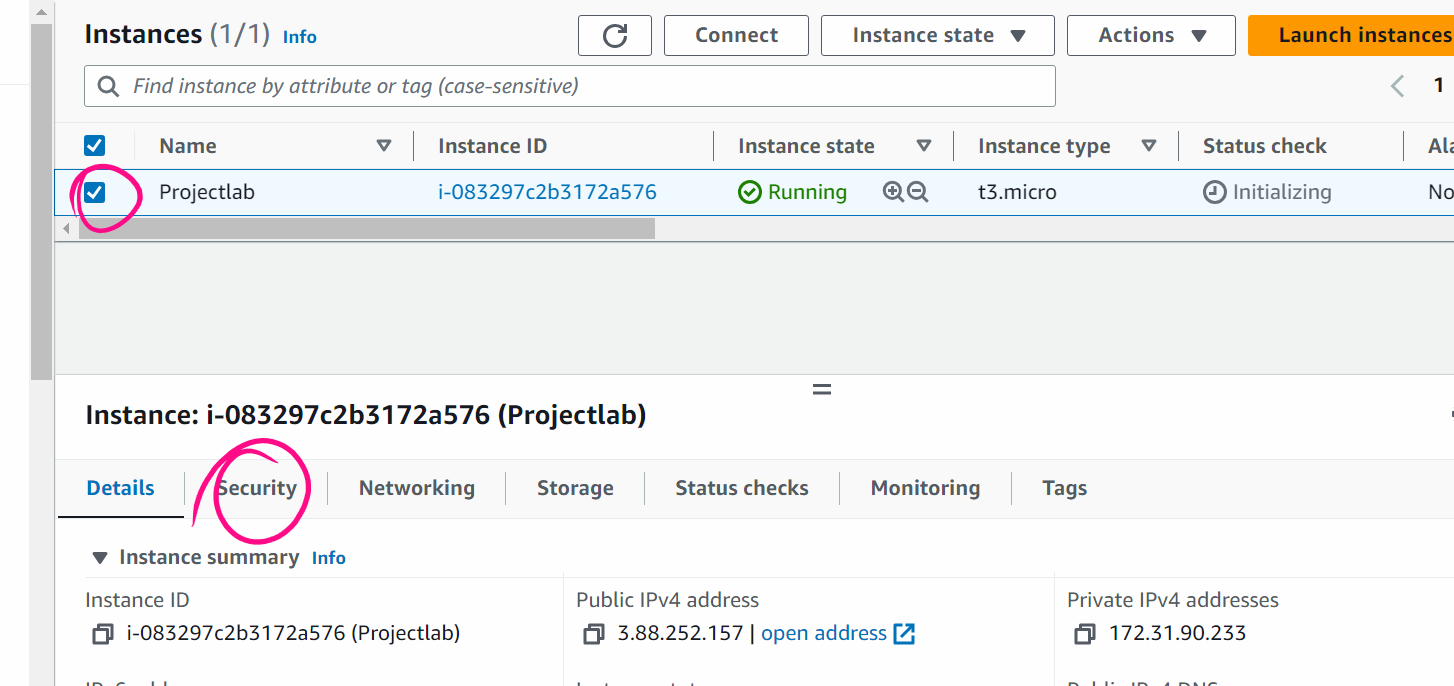
terraform apply --auto-approve

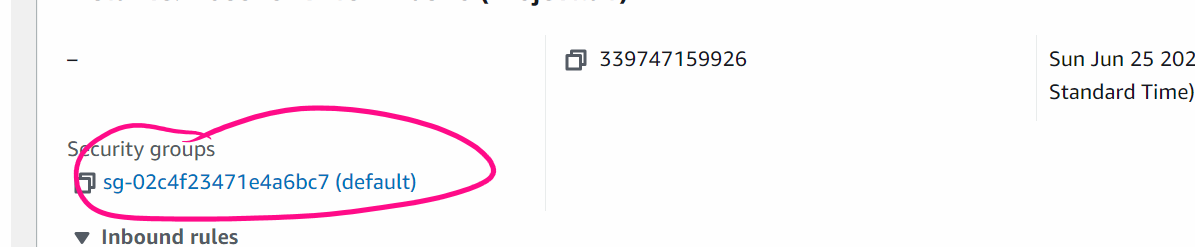


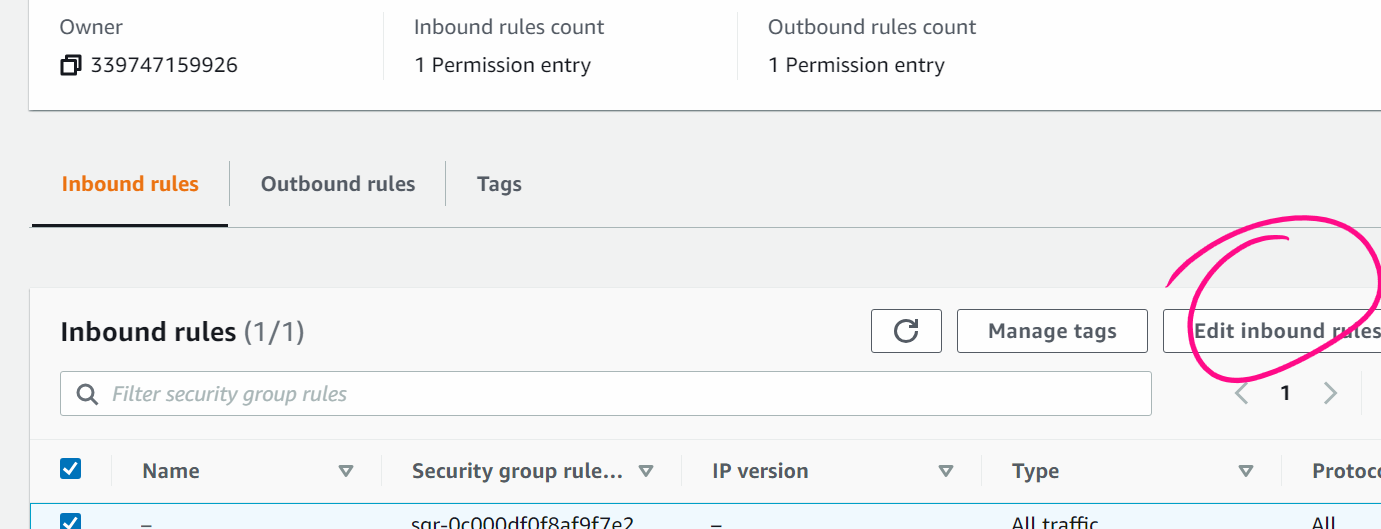




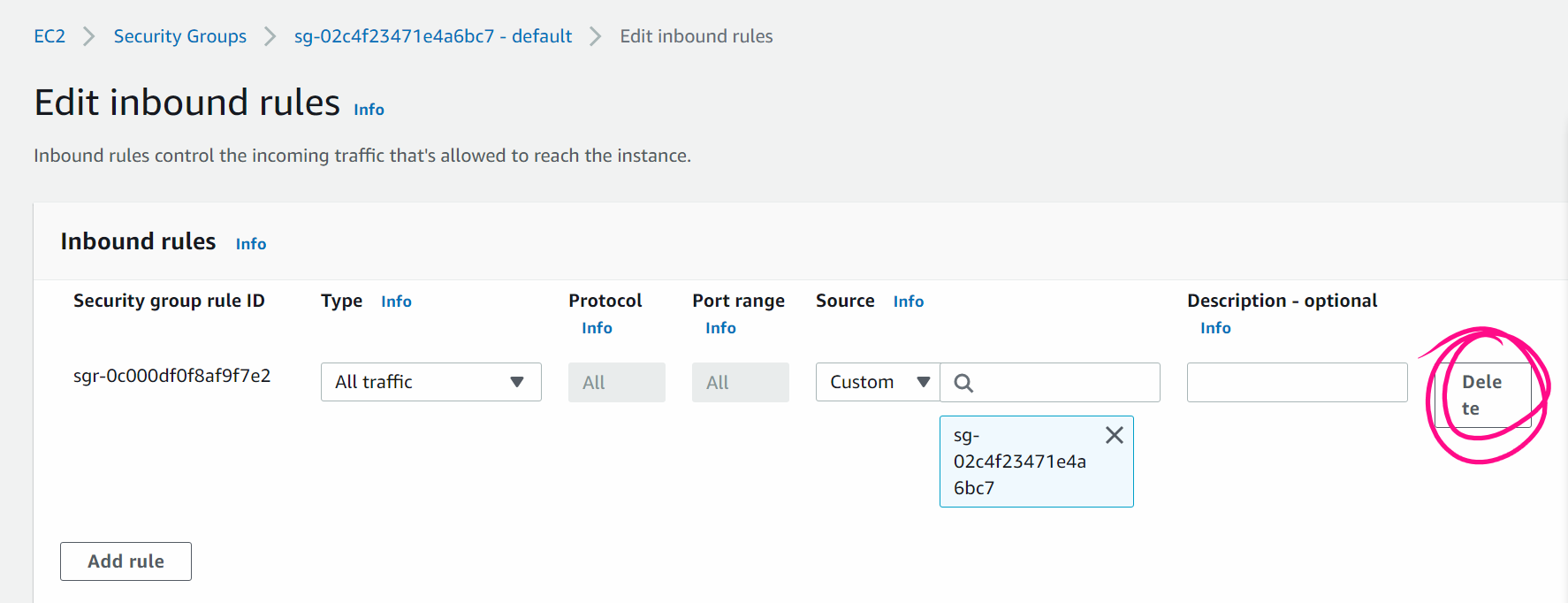
##



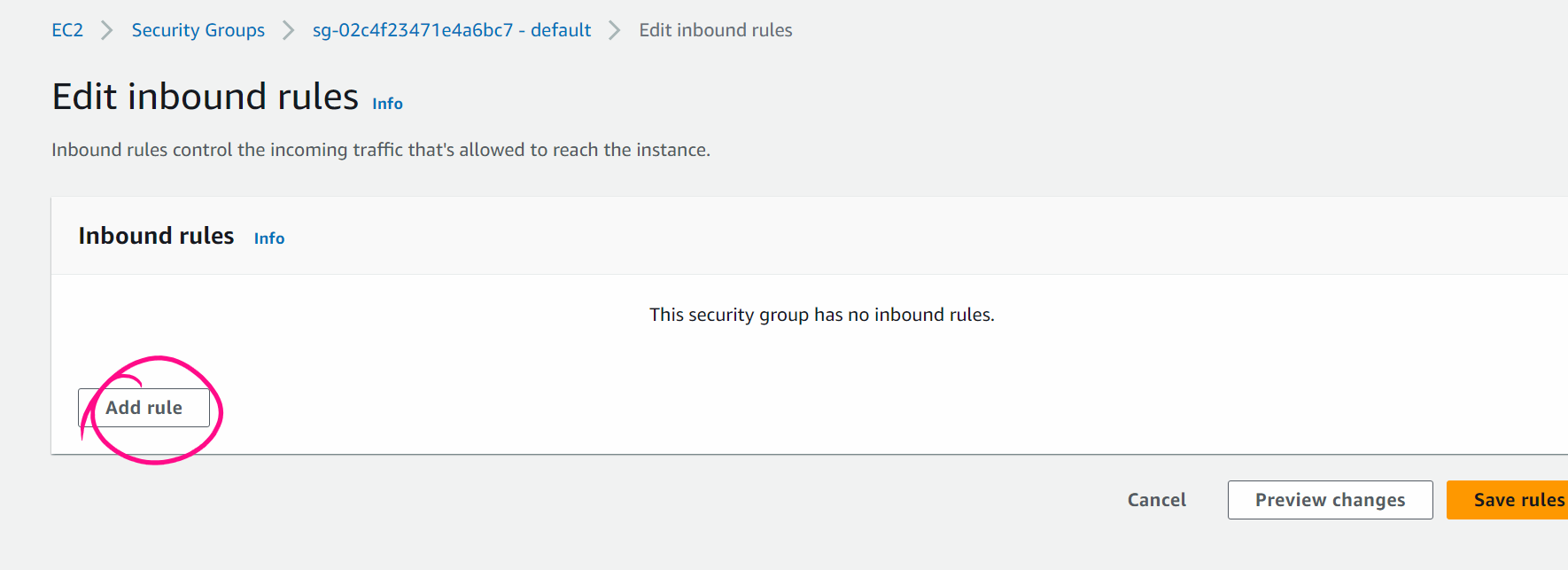




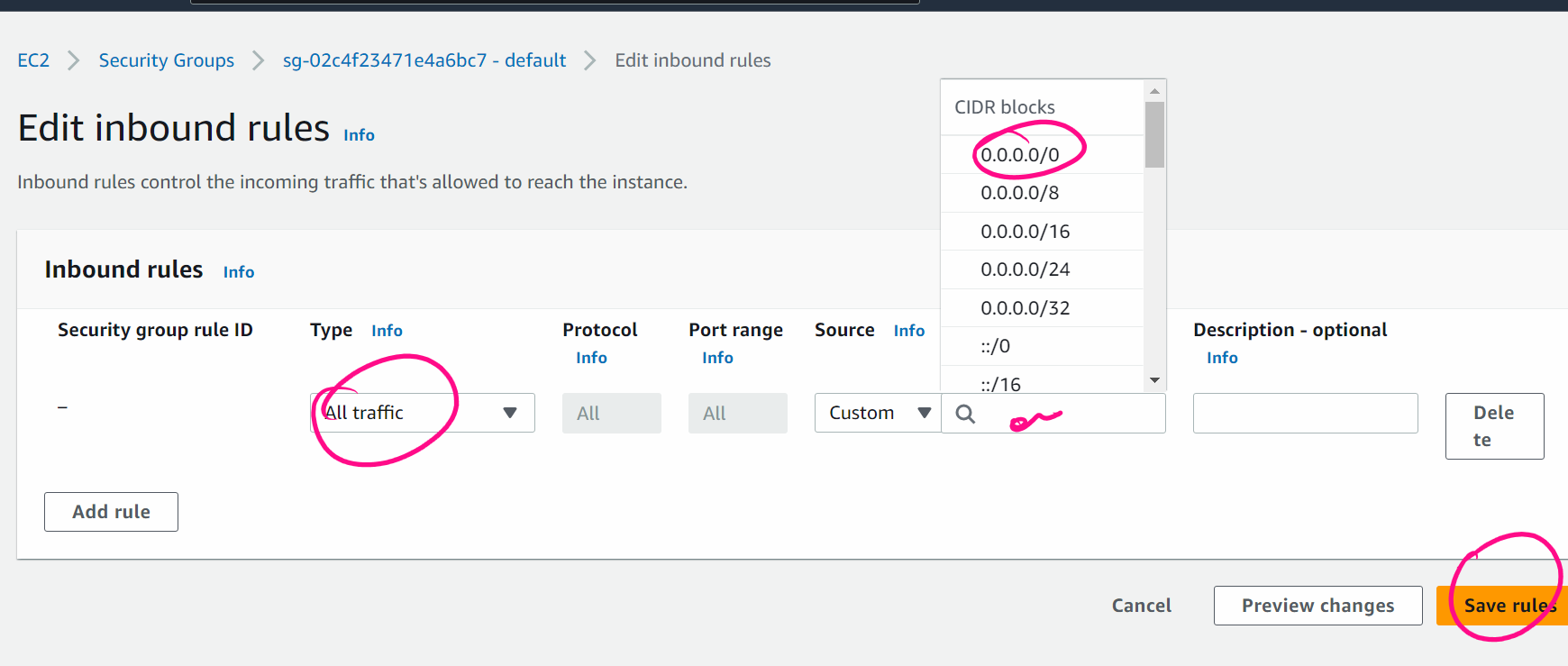
Delete the existing security group

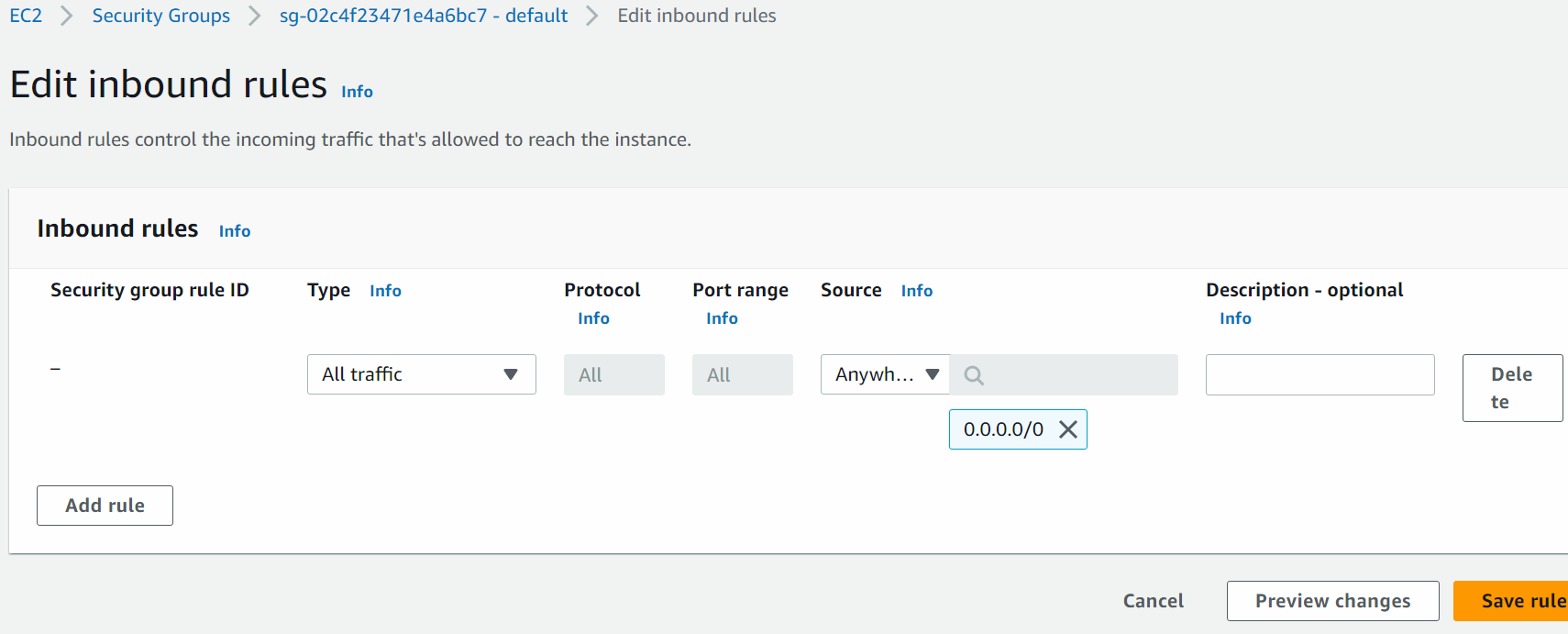


##

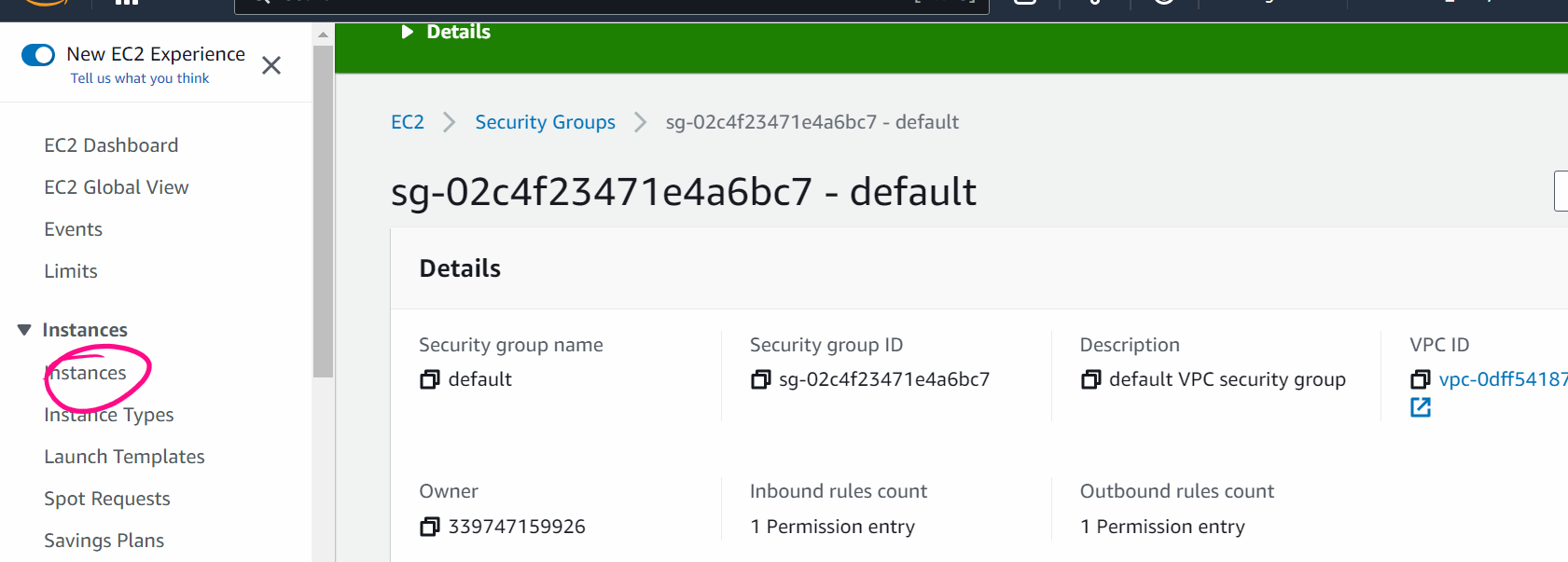


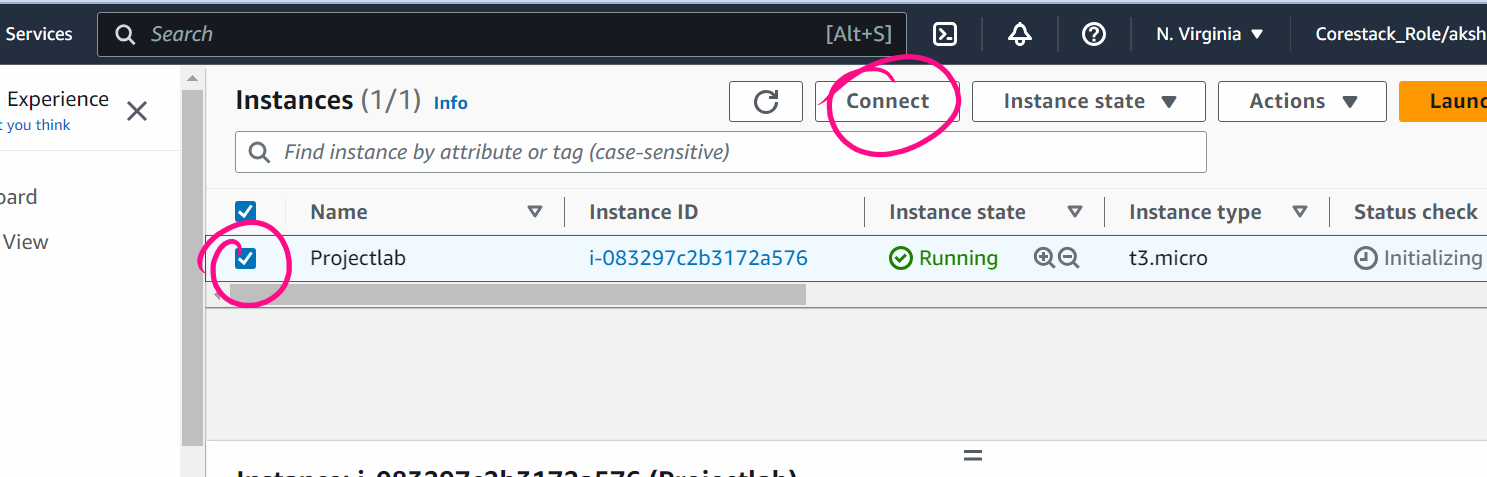
##

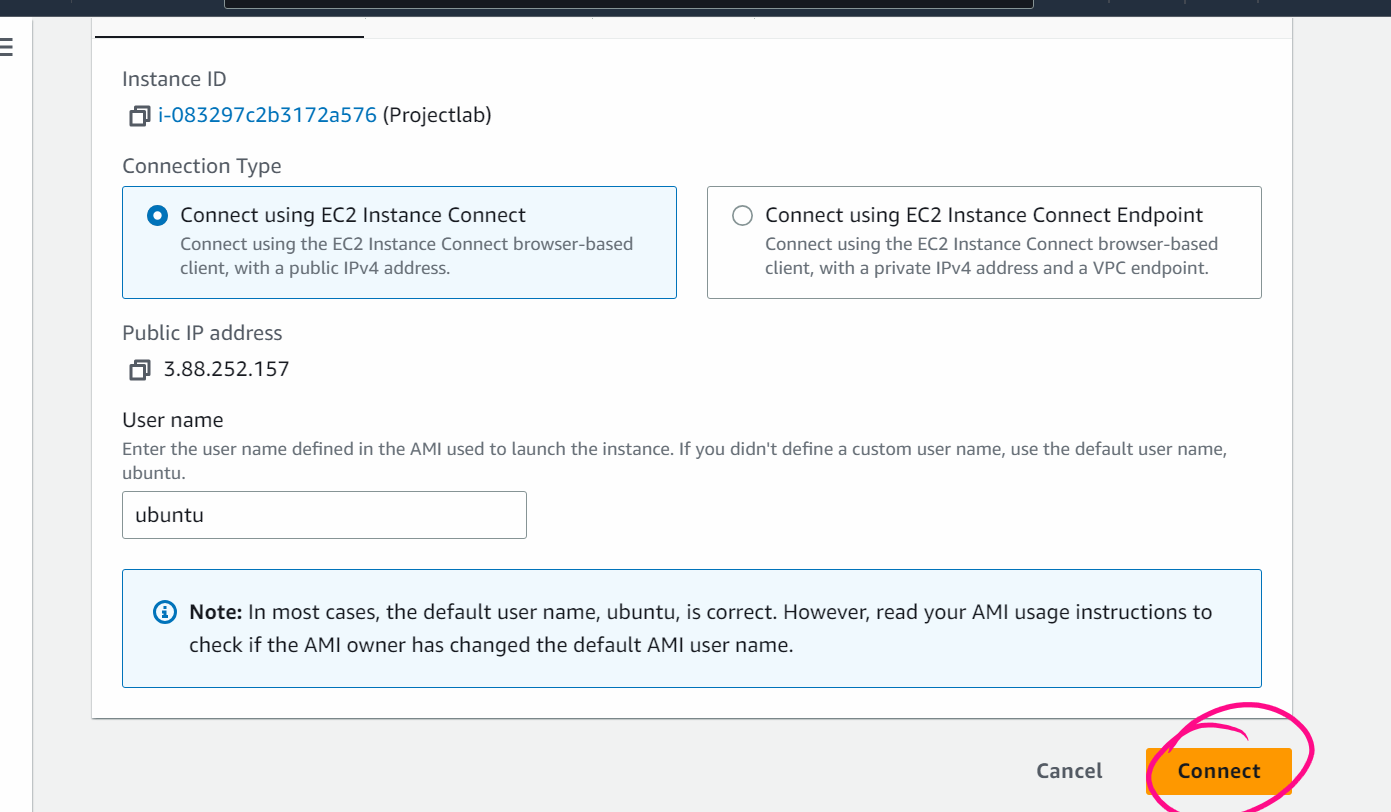


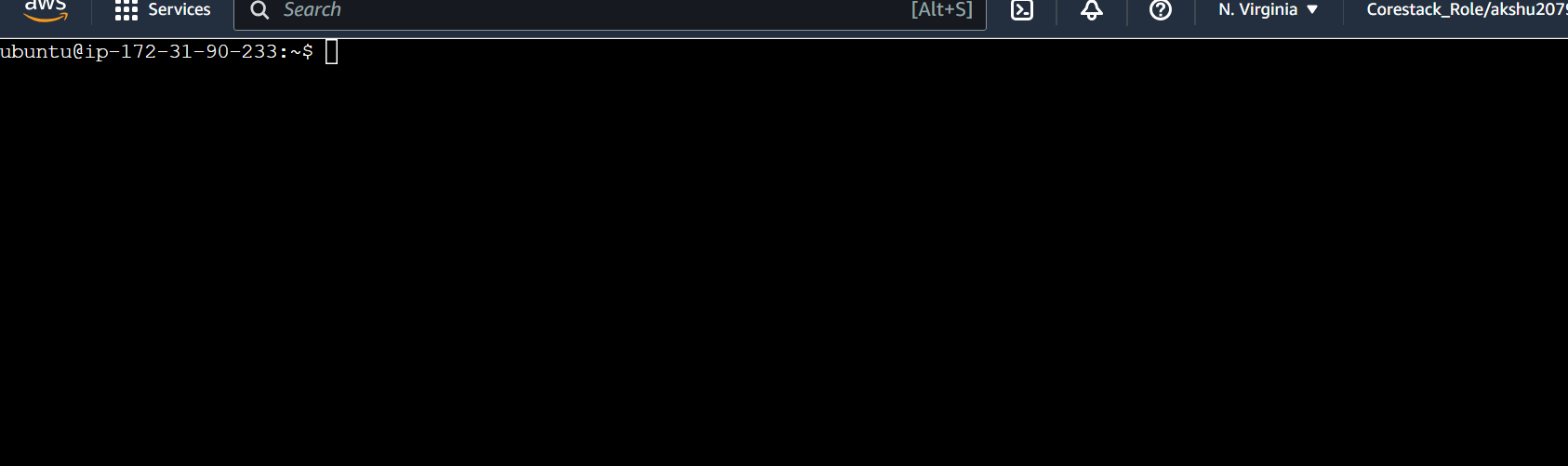


Save rule





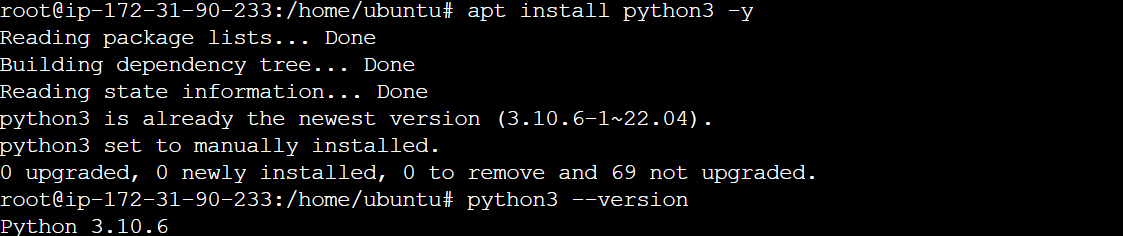




sudo su

apt update -y

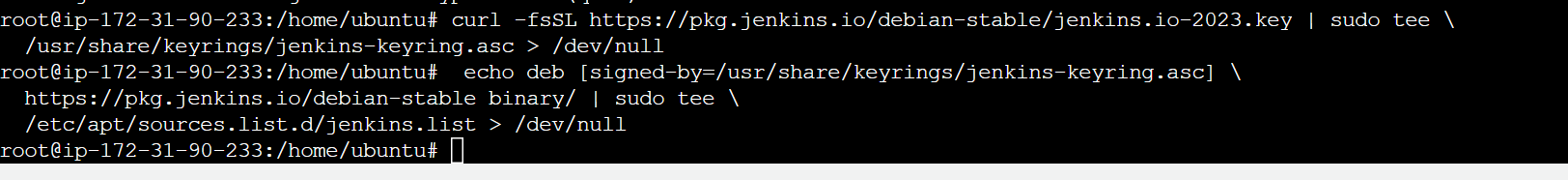
apt install python3 -y

  
  
  
  
  
##java



sudo apt-get install default-jdk -y

### Jenkins



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

apt update -y

# Install Jenkins

sudo apt-get install jenkins -y

service jenkins start

jenkins --version



