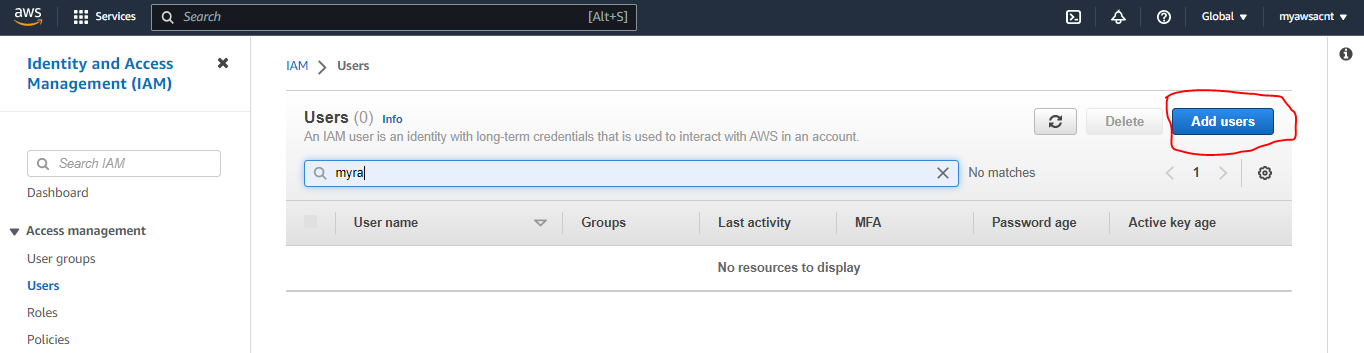
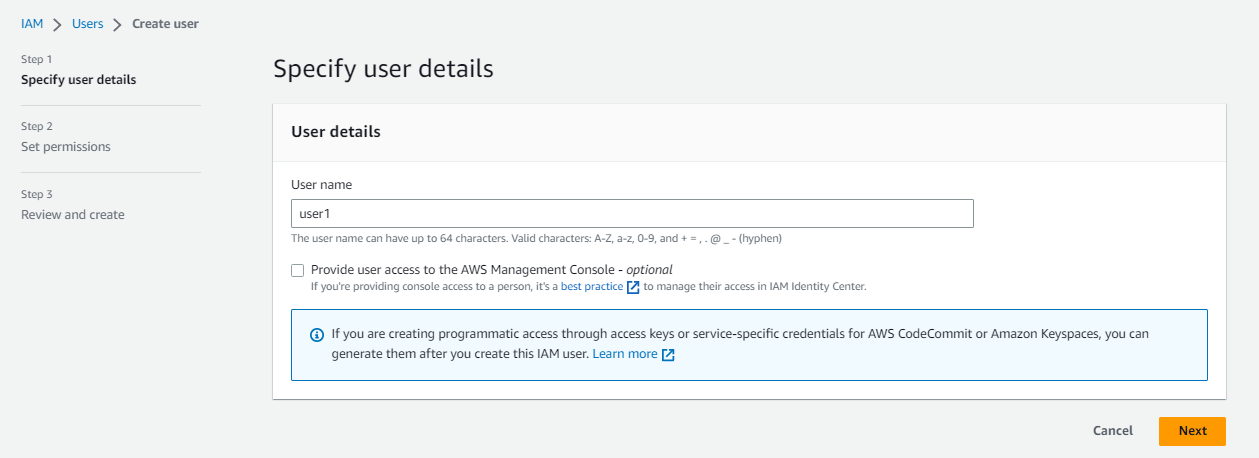
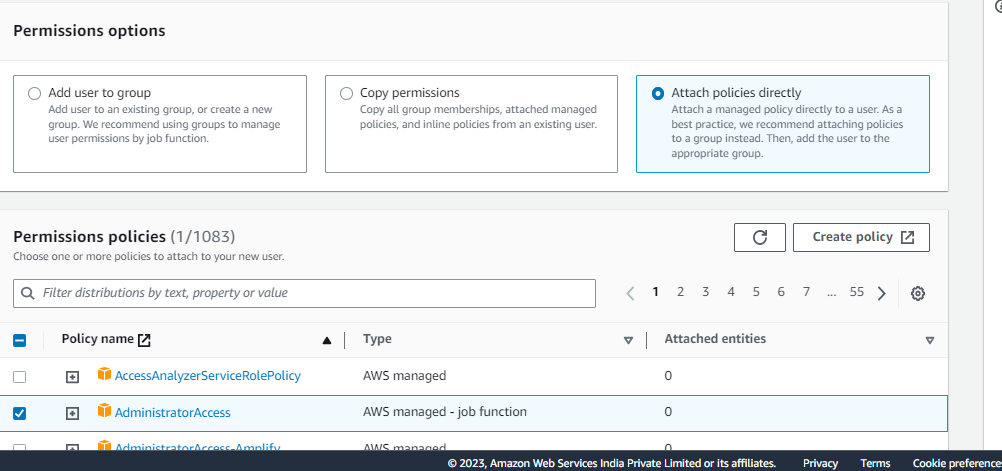
Go to AWS management console and create a new IAM user as shown below.



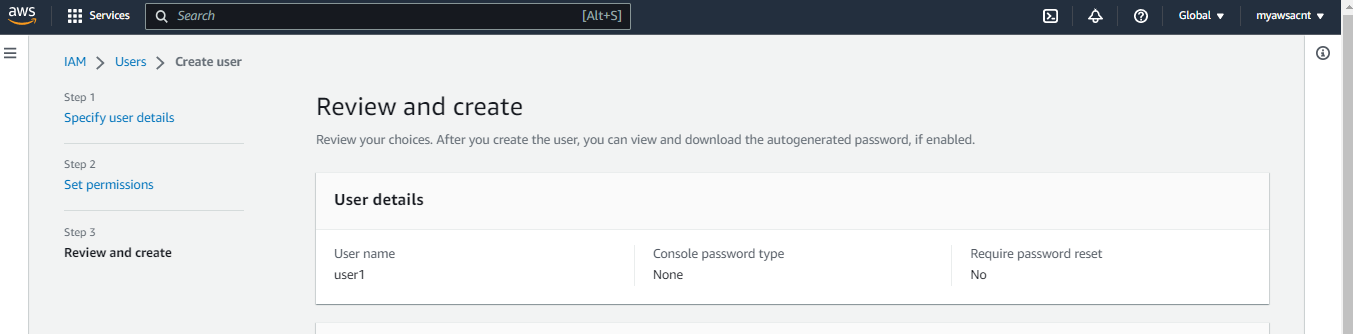
I gave the user name “user1” and clicked on Next.



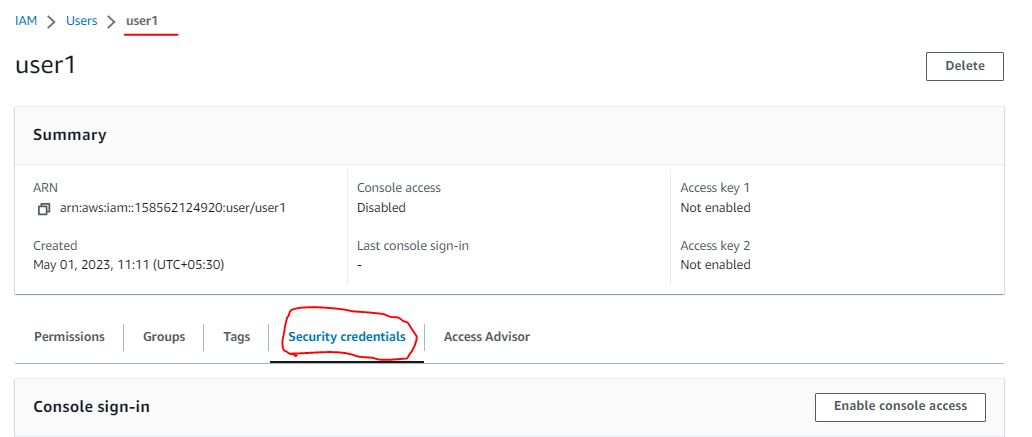
I will assign administrator access to the user as shown below.



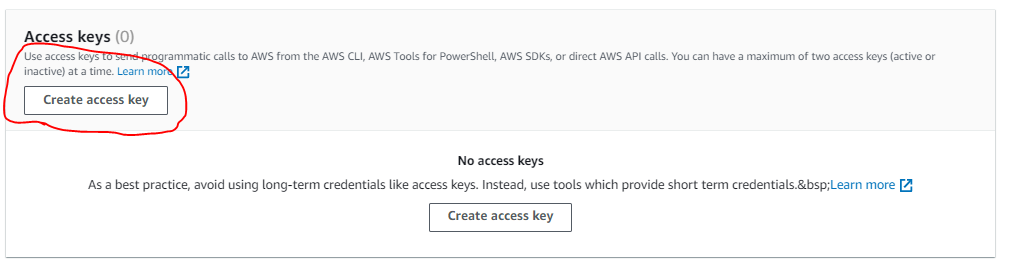
And finally create the user.



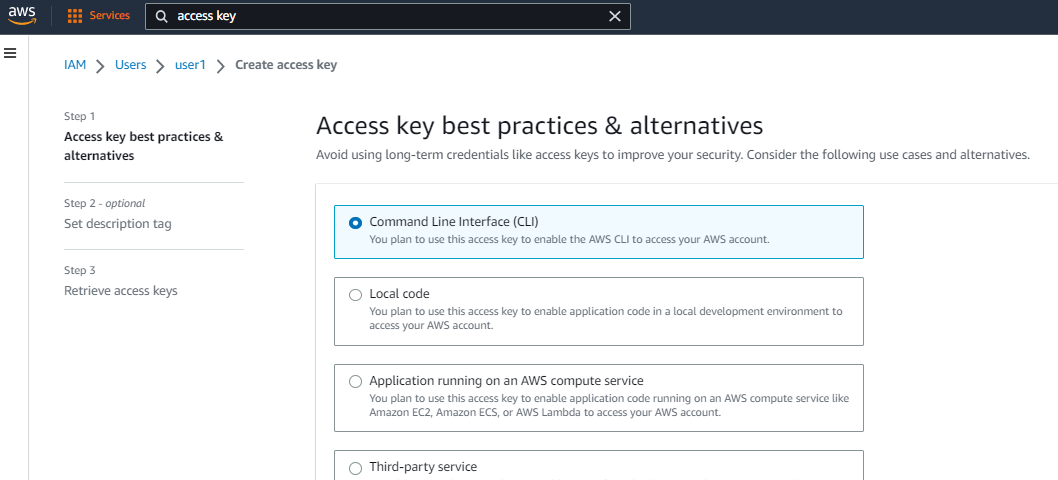
Now go to user and go to security credentials tab.



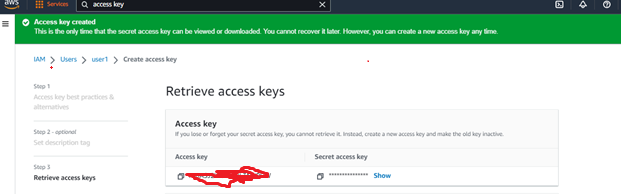
Create access key.



Select the option command line interface and create access key.



Copy access key and secret access key of the user.



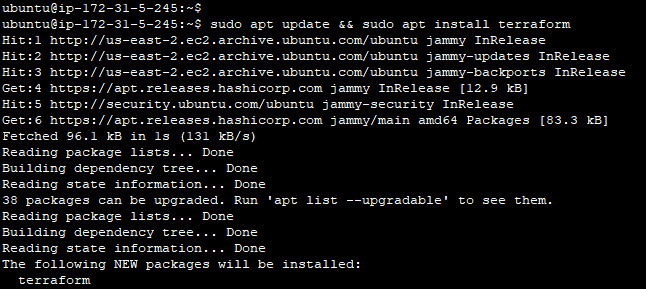
Download and install terraform.

**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**

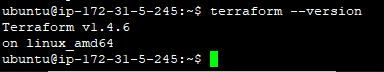
**sudo apt update && sudo apt install terraform**



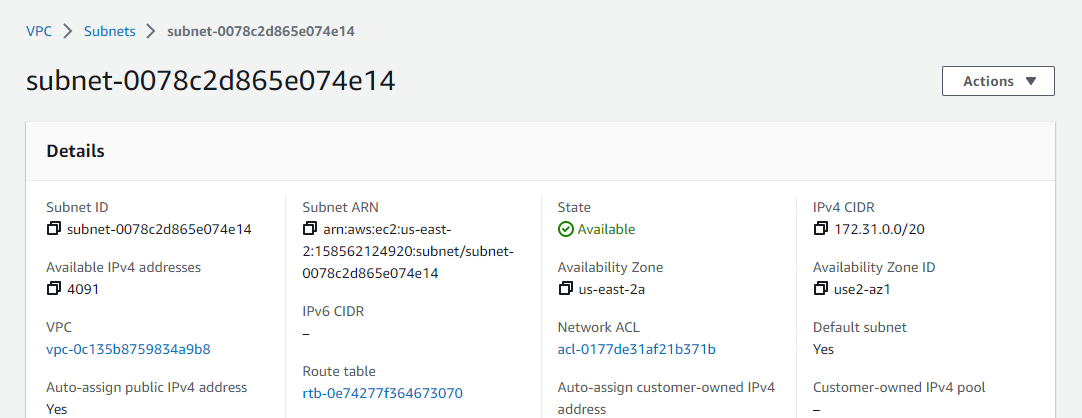


Validate the installation by checking terraform version.

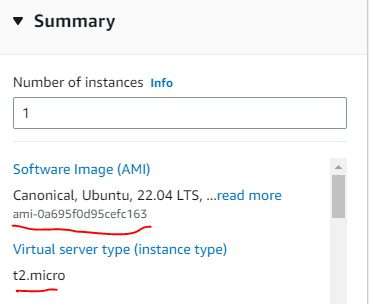
**terraform --version**



Go to VPC 🡪 Subnet and copy the default subnet id as shown below.



Similarly make a note of the instance type, ami id.

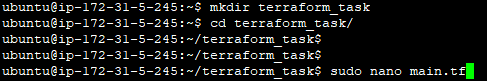


Create a new directory and inside that directory create a file main.tf

**mkdir terraform\_task**

**cd terraform\_task/**

**sudo nano main.tf**



Write below code in main.tf.

**provider "aws" {**

**access\_key = "xxxxxxxxxxxxxx"**

**secret\_key = "xxxxxxxxxxxxxxxxxxxxxxxxxxx"**

**region = "us-east-2"**

**}**

**resource "aws\_instance" "assign1\_ec2instance" {**

**ami = "${var.ami\_id}"**

**subnet\_id = "${var.subnet\_id}"**

**instance\_type = "${var.instance\_type}"**

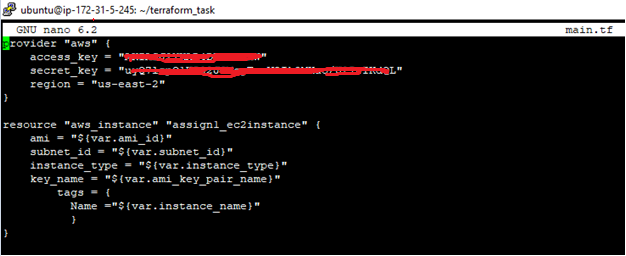
**key\_name = "${var.ami\_key\_pair\_name}"**

**tags = {**

**Name ="${var.instance\_name}"**

**}**

**}**



Now create a file variables.tf and write below code into it.

**variable "instance\_name" {**

**description = "Name of the instance to be created"**

**default = "server01"**

**}**

**variable "instance\_type" {**

**default = "t2.micro"**

**}**

**variable "subnet\_id" {**

**description = "The VPC subnet the instance(s) will be created in"**

**default = "subnet-0078c2d865e074e14"**

**}**

**variable "ami\_id" {**

**description = "The AMI to use"**

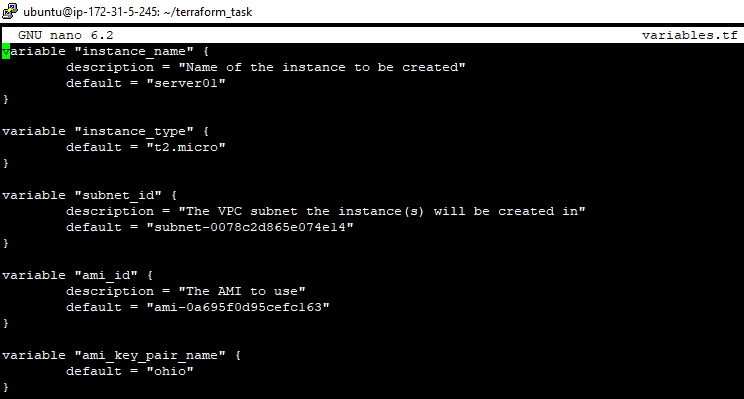
**default = "ami-0a695f0d95cefc163"**

**}**

**variable "ami\_key\_pair\_name" {**

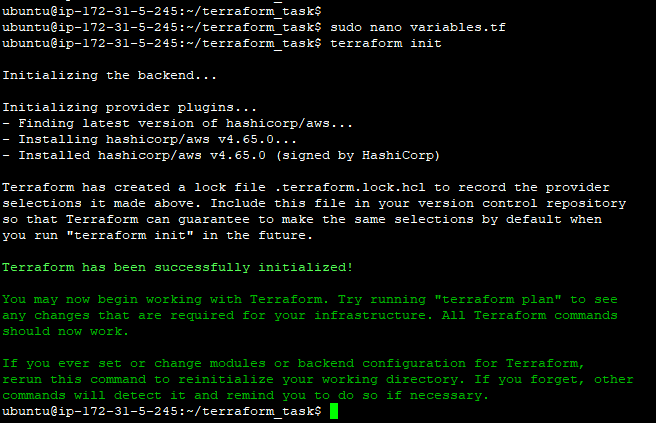
**default = "ohio"**

**}**



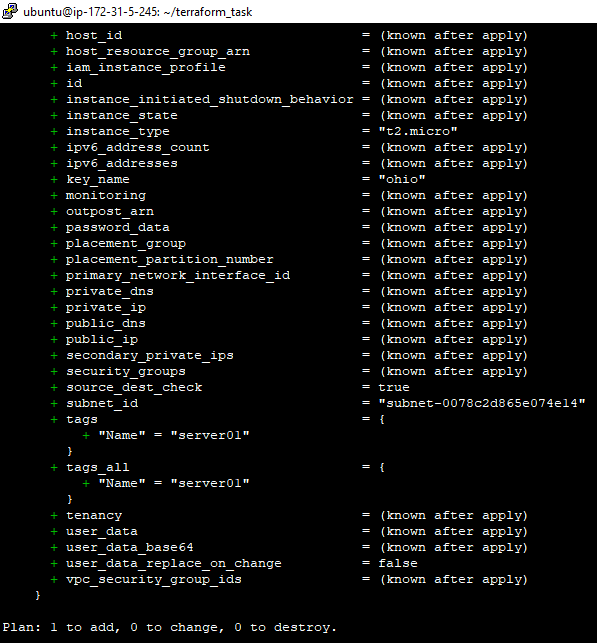
Now run the below command to initialize it.

**terraform init**



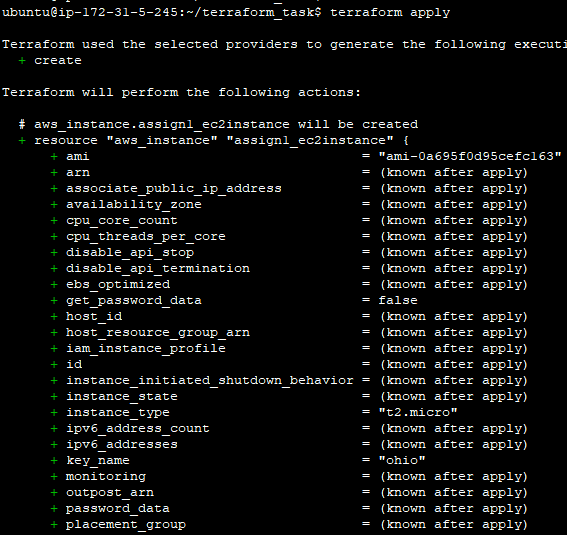
Run below command to see what changes will be done.

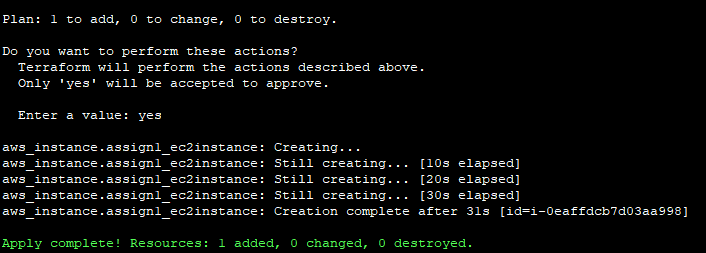
**terraform plan**



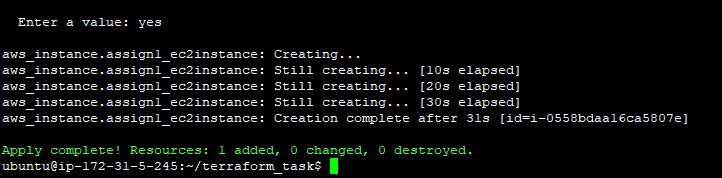
Now run below command to create the EC2 instance.

**terraform apply**



Enter Yes to confirm the creation. 

Our EC2 instance got created in Ohio region with default subnet in few seconds and we received below output on terminal.



We can go to AWS management console to validate the build.

