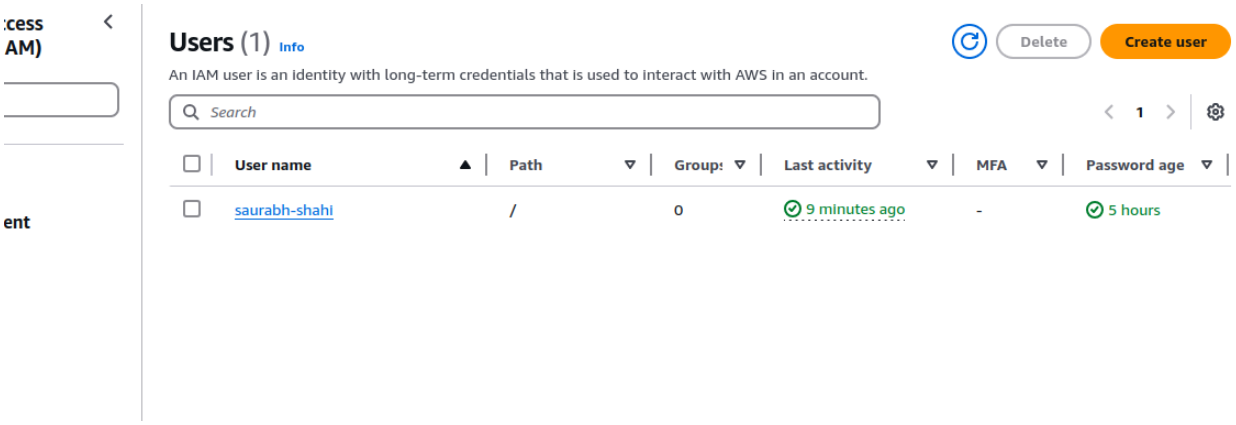
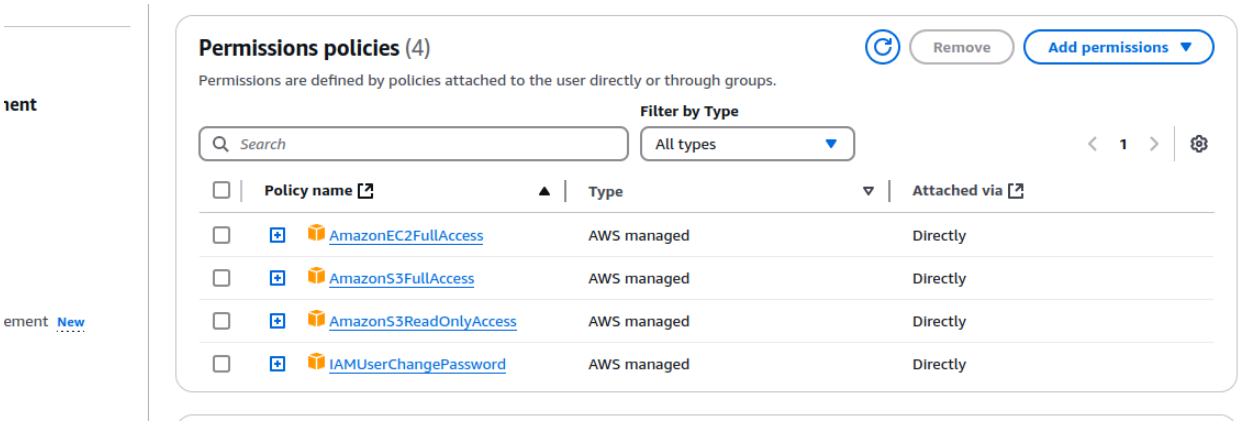
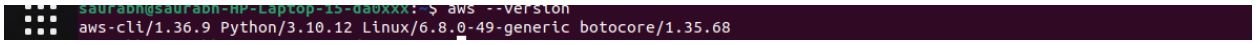
Steps to Follow

1. Created a free Tier account on AWS
   a) Created a IAM user of my name
   b) Give Neccessary permission to the users





2. Install the aws cli on the local
   Configure the aws account



3. Install terraform On local

1. I had Created the Infra via the Terraform , so it main.tf consists of
   a) Creation of s3 bucket with name one2n-s3
   b) Creation of AWS instance in the region

After Creation of ec2 it will create run commands on the ec2 server

```
provider "aws" {
  region = "us-east-1"  # Choose your region
}

resource "aws_s3_bucket" "bucket" {
  bucket = "one2n-s3"
  acl    = "private"
}

resource "aws_security_group" "web_sg" {
  name_prefix = "web_sg"
  egress {
    cidr_blocks = ["0.0.0.0/0"]
    from_port   = 0
    to_port     = 0
    protocol    = "tcp"
  }

  ingress {
    cidr_blocks = ["0.0.0.0/0"]
    from_port   = 80
    to_port     = 80
    protocol    = "tcp"
  }
}

resource "aws_instance" "web_instance" {
  ami           = "ami-0453ec754f44f9a4a" # Amazon Linux 2 AMI ID (change based on region)
  instance_type = "t2.micro"
  security_groups = [aws_security_group.web_sg.name]
  user_data = <<-EOF
              #!/bin/bash
              yum update -y
              yum install -y python3
              pip3 install Flask boto3
"main.tf" 50L, 1197B
```

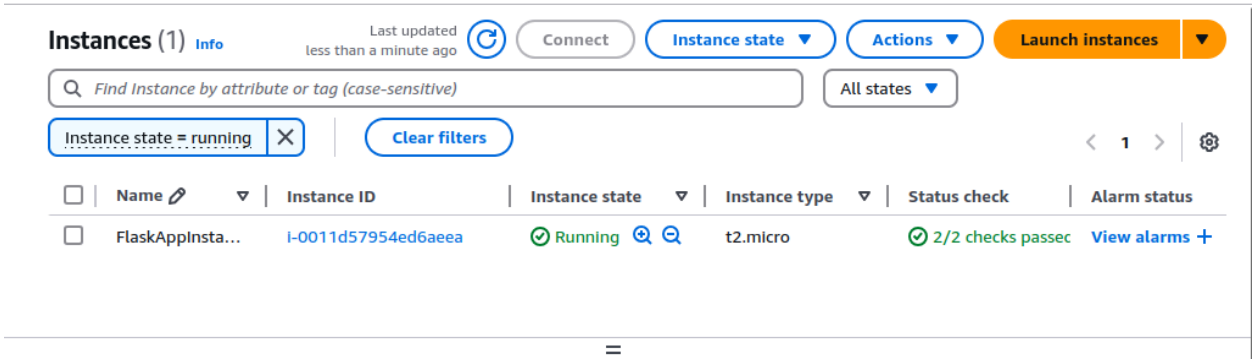
```
  user_data = <<-EOF
              #!/bin/bash
              yum update -y
              yum install -y python3
              pip3 install Flask boto3
              cd /home/ec2-user
              #git clone https://github.com/yourusername/your-repository.git
              git clone https://github.com/shahi-saurabh/s3-list-service.git
              cd s3-list-service
              python3 app.py
              EOF
  tags = {
    Name = "FlaskAppInstance"
  }
}

output "web_instance_ip" {
  value = aws_instance.web_instance.public_ip

E37: No write since last change (add ! to override)
```

Main .tf

Once the EC2 and S3 is created you can look onto the aws portal.



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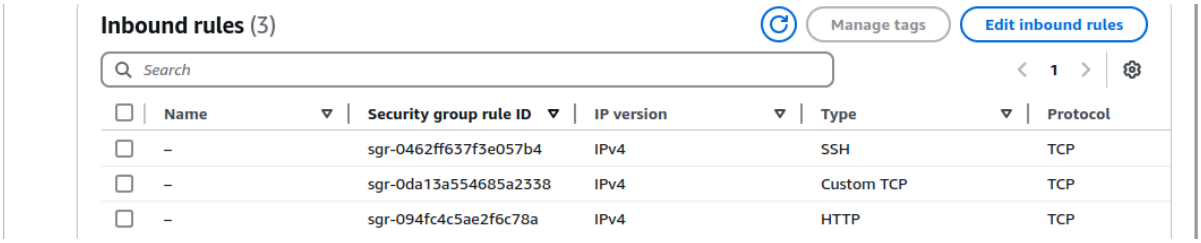
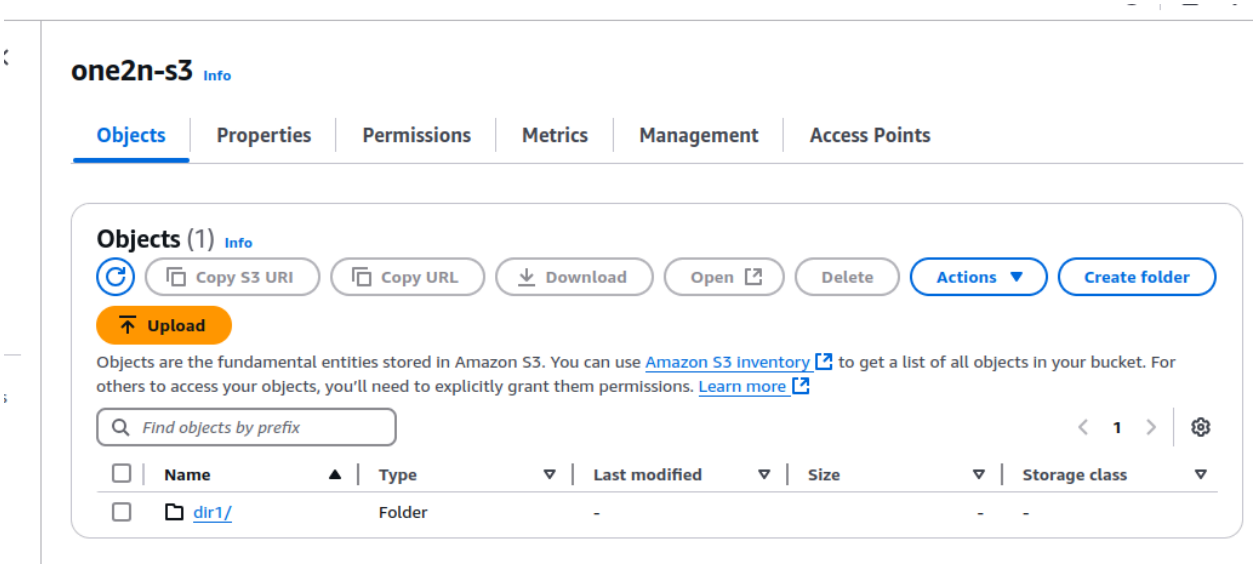
I have configure the ec2 security group with the following ports

inBound rule

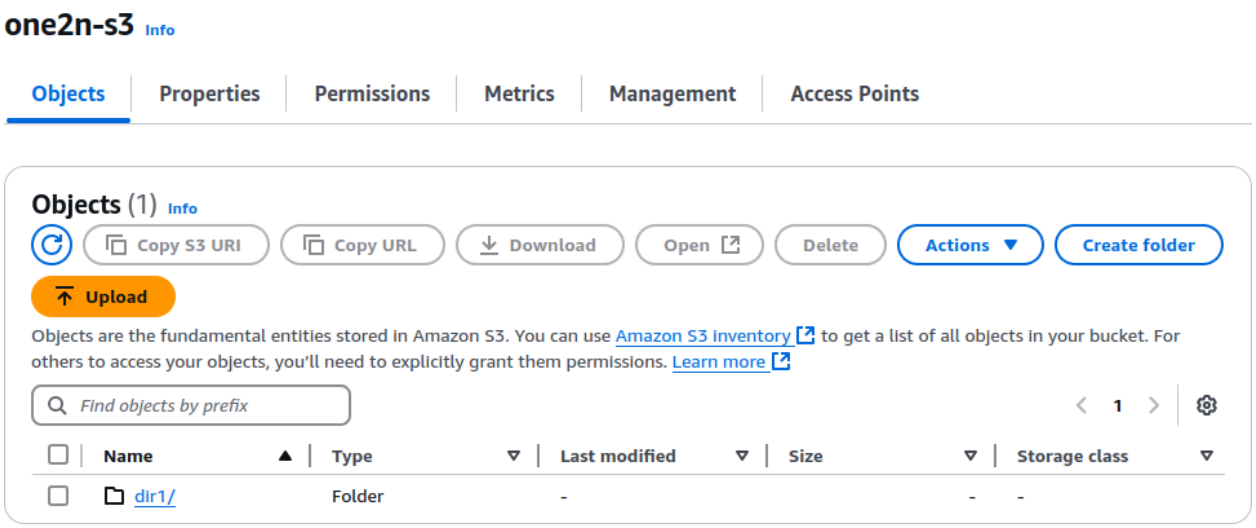


Outbound rule



I had copied the file from my local to s3 by the following command

```
file1.txt
saurabh@saurabh-HP-Laptop-15-da0xxx:~$ aws s3 cp file1.txt s3://one2n-s3/dir1/file1.txt
upload: ./file1.txt to s3://one2n-s3/dir1/file1.txt
```



OUTPUT SHOWING THE DIR OF S3