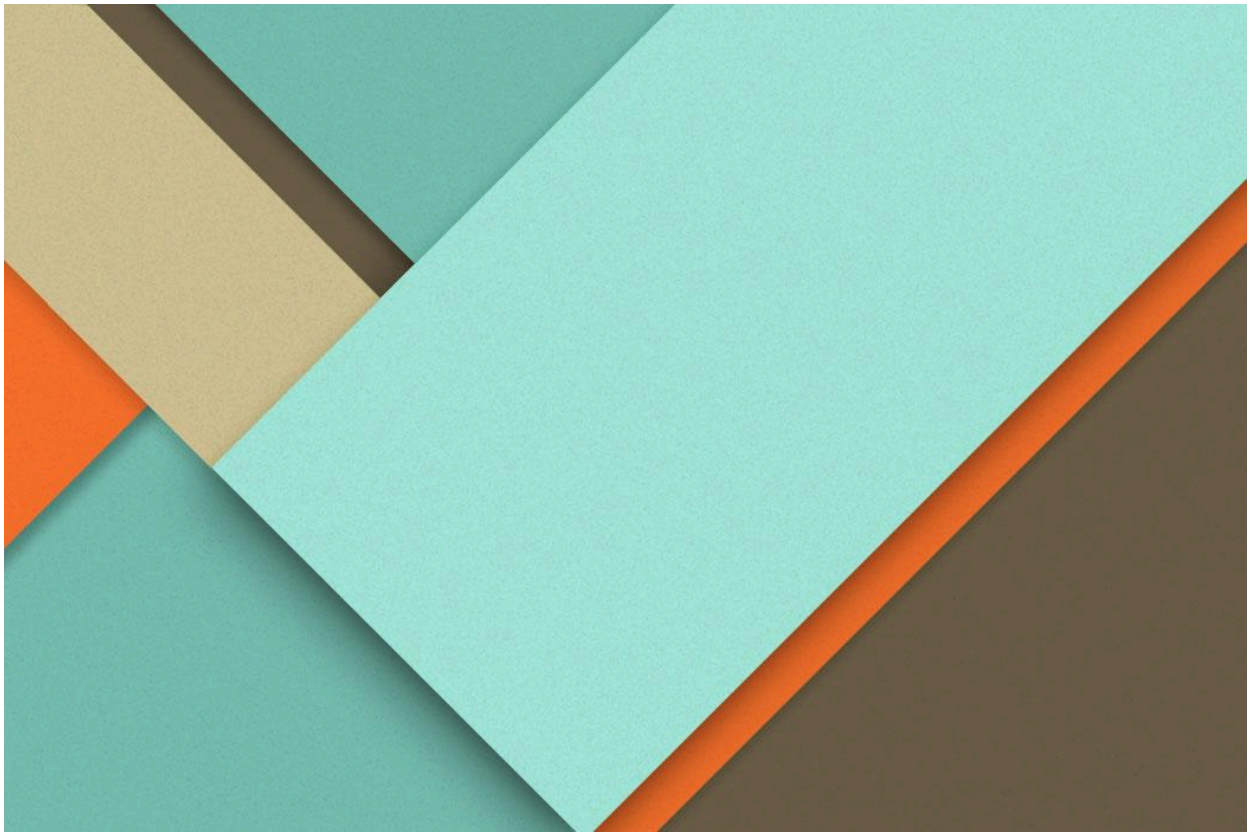


AWS Landing Zone Assignment

Created by: Manilka Shalinda

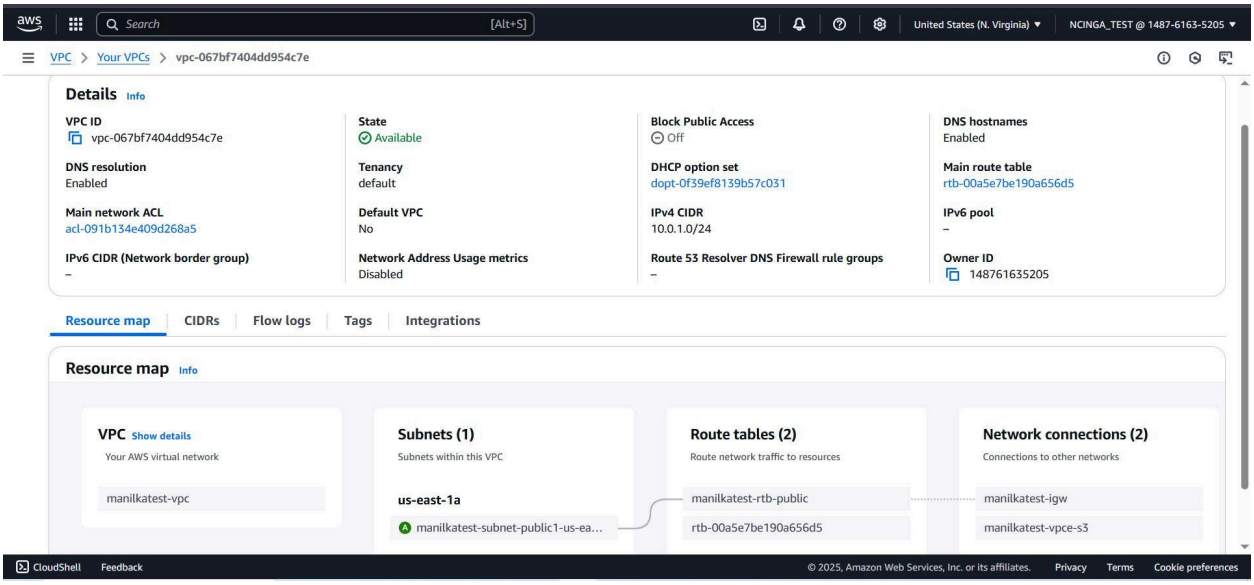
Purpose: To practice setting up a basic AWS environment with EC2 and S3 static website hosting

Overview

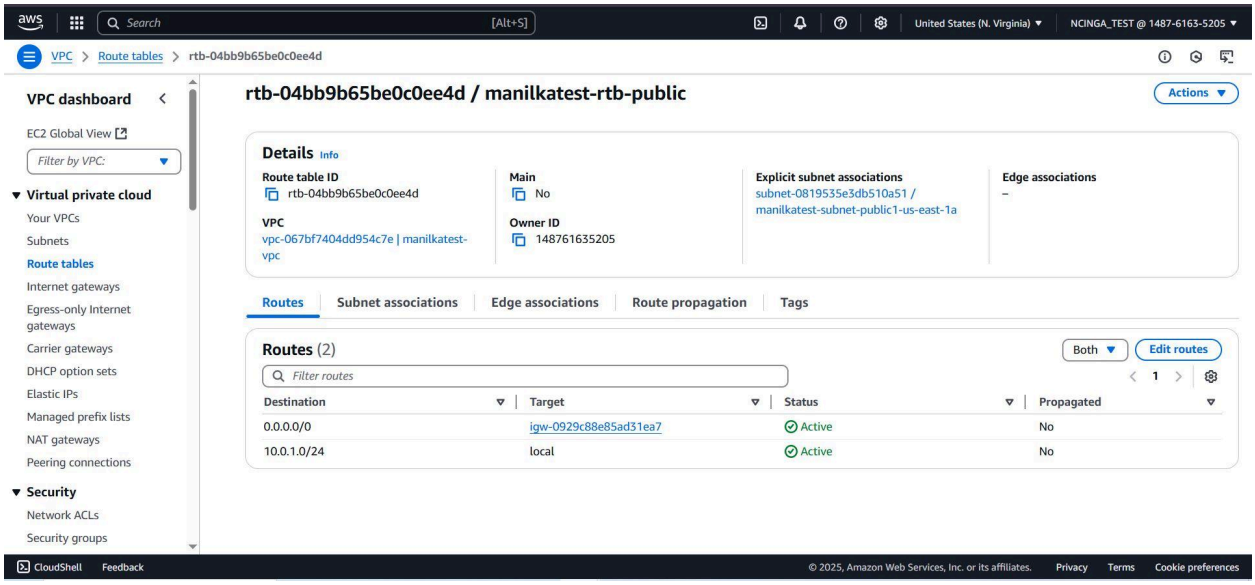
This project demonstrates the setup of a basic AWS Landing Zone, including creating a VPC with a public subnet, launching an EC2 instance running an Apache web server with a public IP, and configuring an S3 bucket for static website hosting. It covers key AWS services such as networking, compute, and storage, showcasing foundational skills in cloud infrastructure and web hosting.

1. VPC and Networking Setup

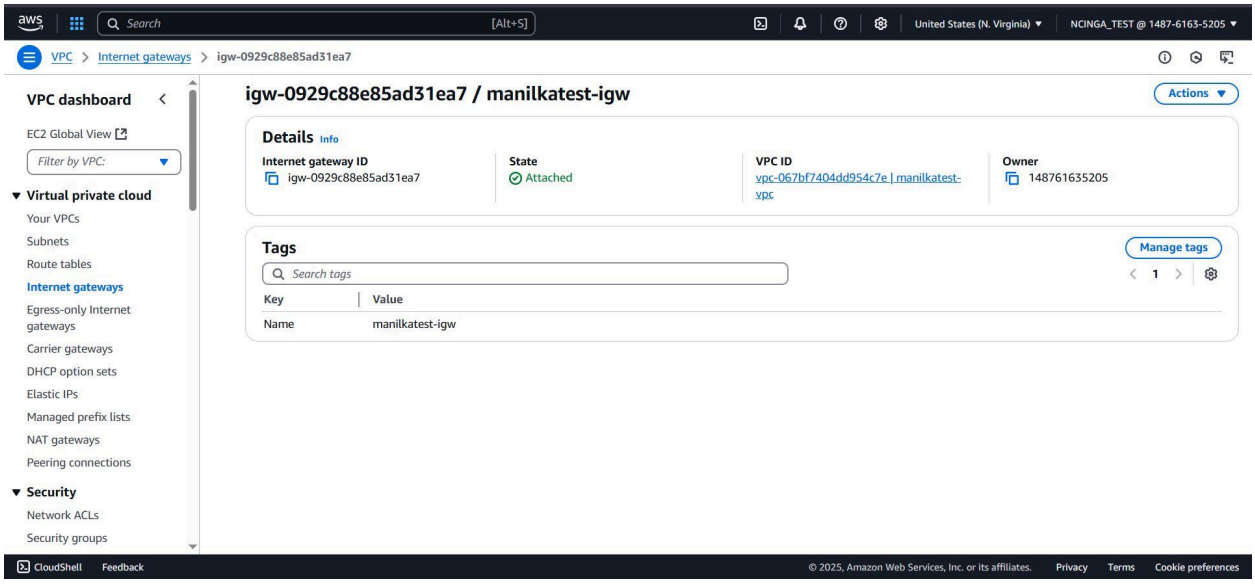
VPC



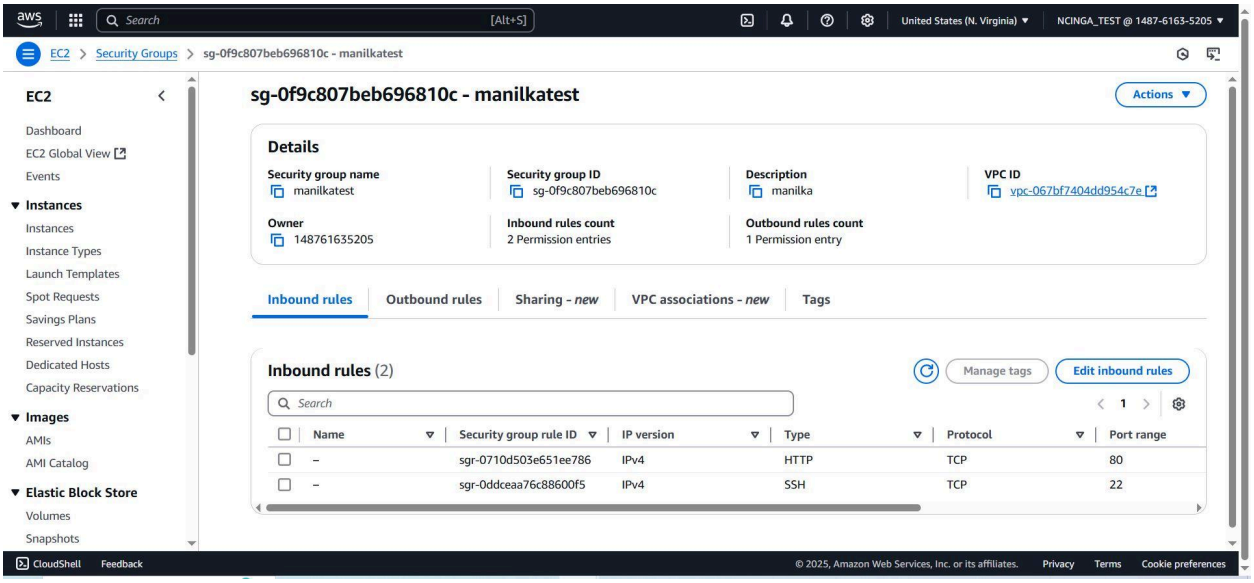
Route Table



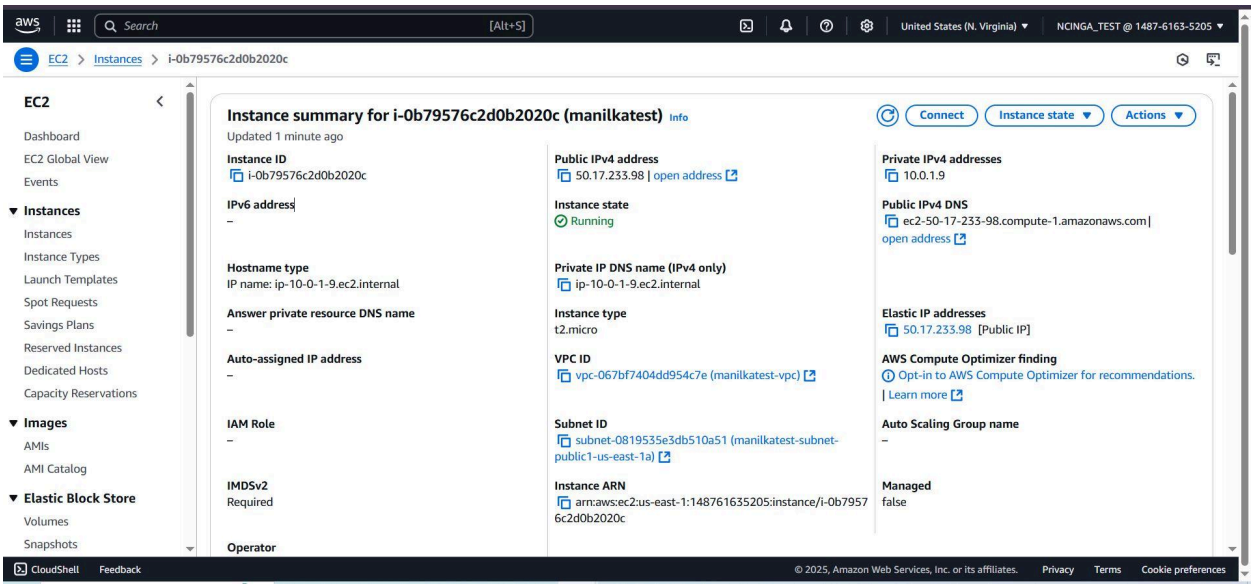
IGW



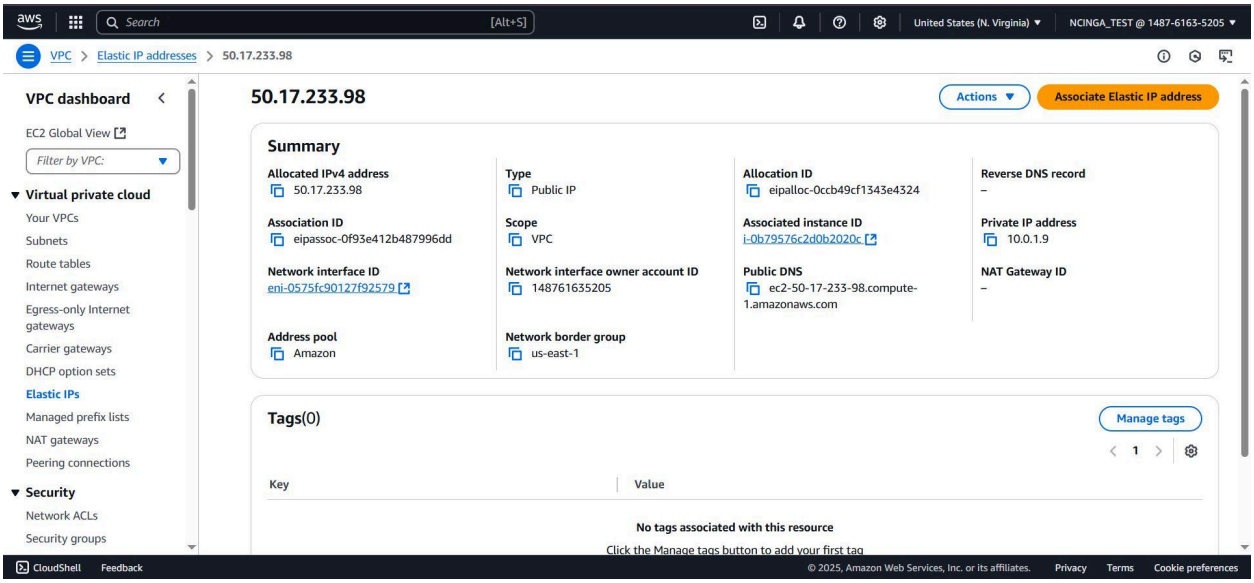
Security Group



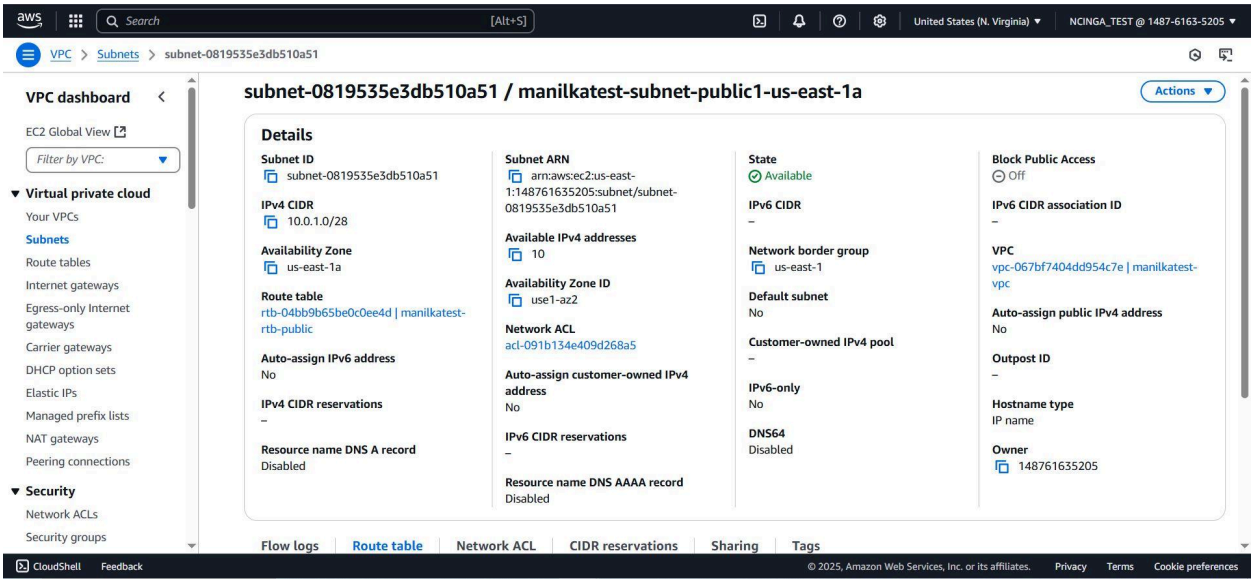
EC2



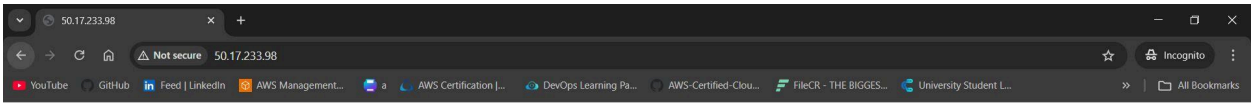
Elastic IP



Subnet



Web View



Hello, Manilka

Bonus Tasks

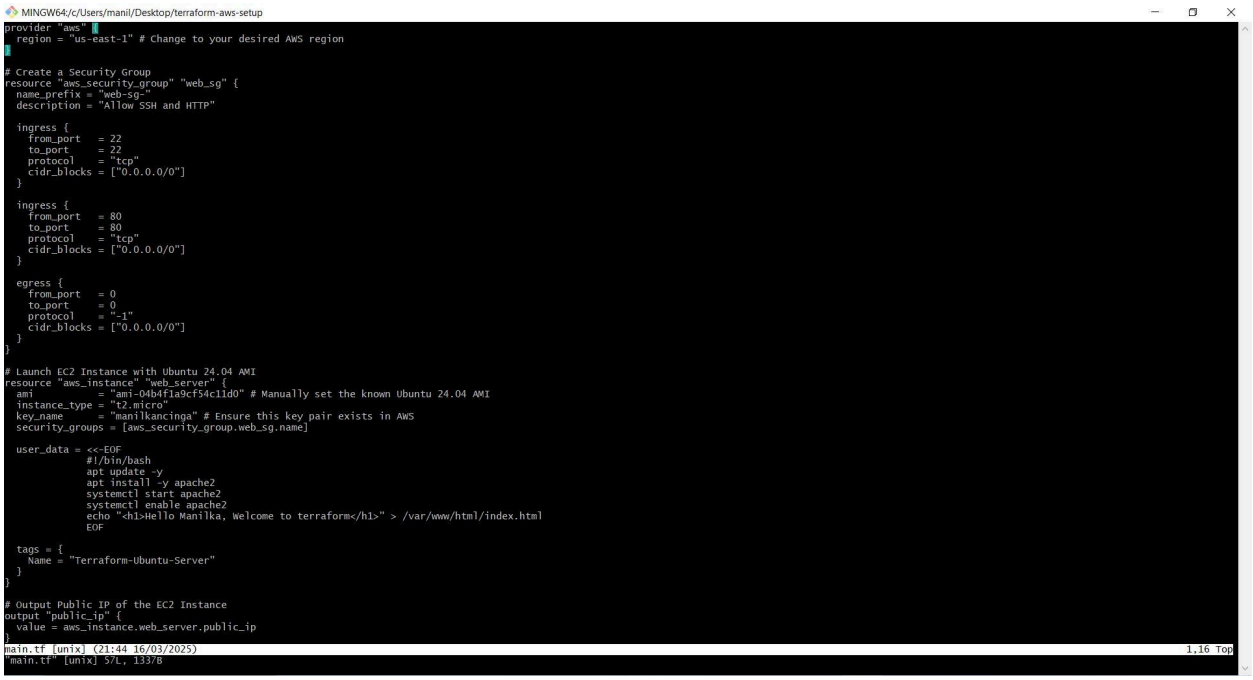
Automate with Terraform

Terminal Codes

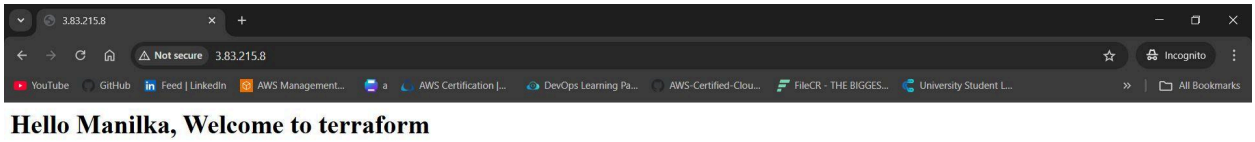
```
  495  terraform version
  496  terraform version
  497  aws configure
  498  ls
  499  cd Desktop/
  500  mkdir terraform-aws-setup && cd terraform-aws-setup
  501  touch main.tf
  502  vi main.tf
  503  terraform init
  504  terraform plan
  505  terraform apply -auto-approve
  506  vi main.tf
  507  terraform plan
  508  terraform init
  509  terraform plan
  510  vi main.tf
  511  terraform init
  512  terraform plan
  513  terraform apply -auto-approve
  514  terraform output public_ip
  515*
  516  terraform init
  517  terraform plan
  518  terraform apply -auto-approve
  519  terraform output public_ip
  520  vi main.tf
  521  terraform destroy -auto-approve
  522  vi main.tf
  523  terraform init
  524  terraform plan
  525  terraform apply -auto-approve
  526  terraform output public_ip
  527  history

manil@DESKTOP-E7NBFU2 MINGW64 ~/Desktop/terraform-aws-setup
$
```

Terraform file



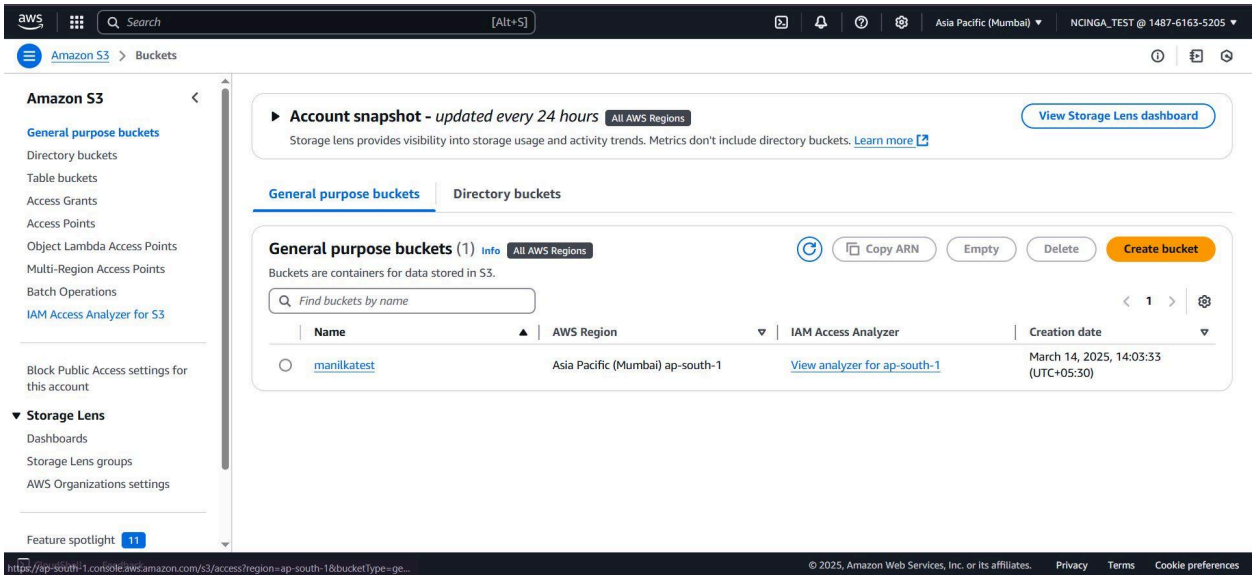
Web View



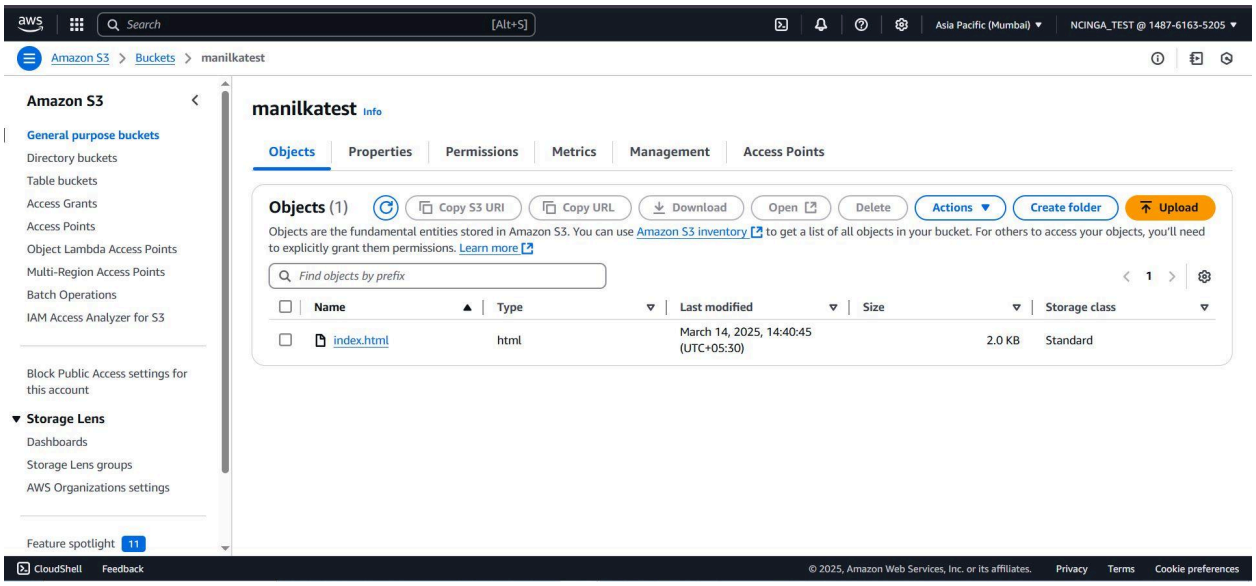
Hello Manilka, Welcome to terraform

Static Website on Amazon S3

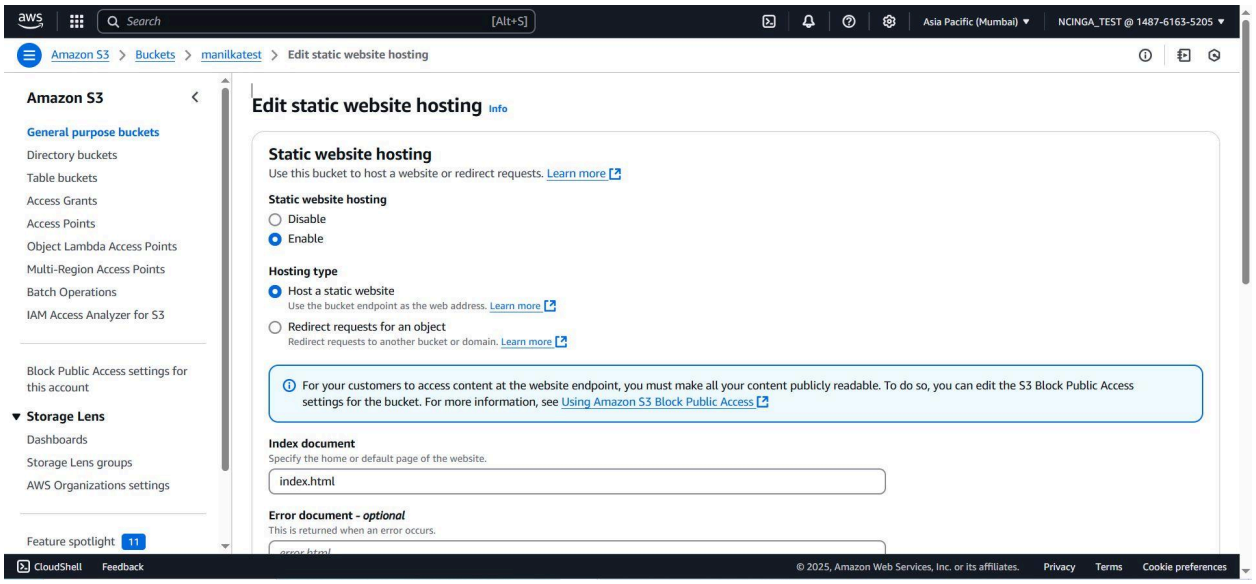
Bucket



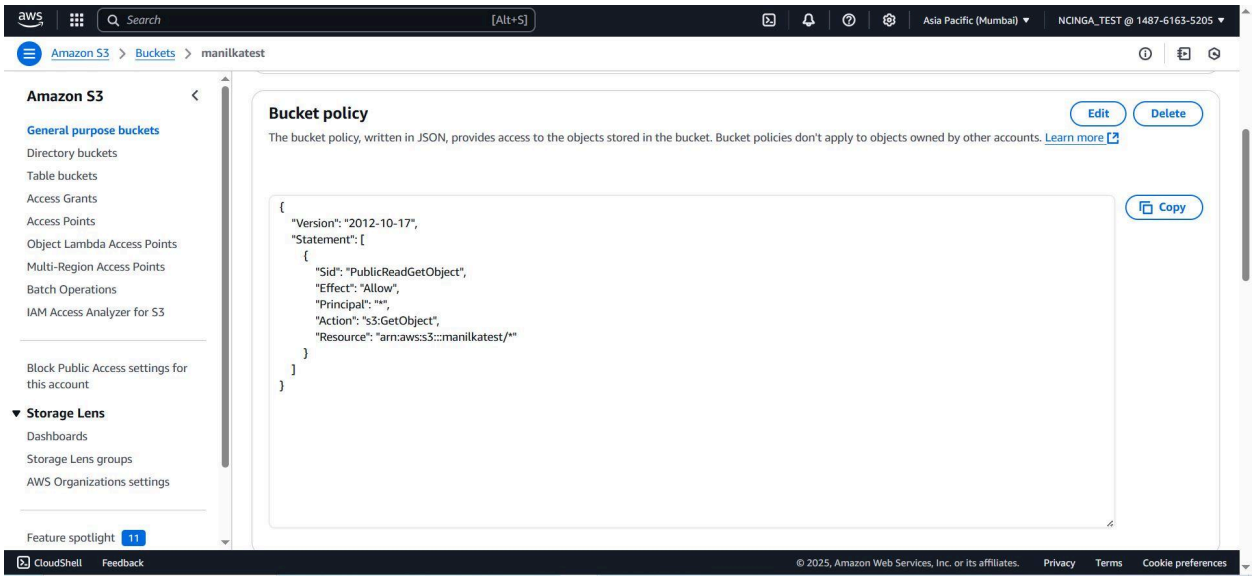
Object



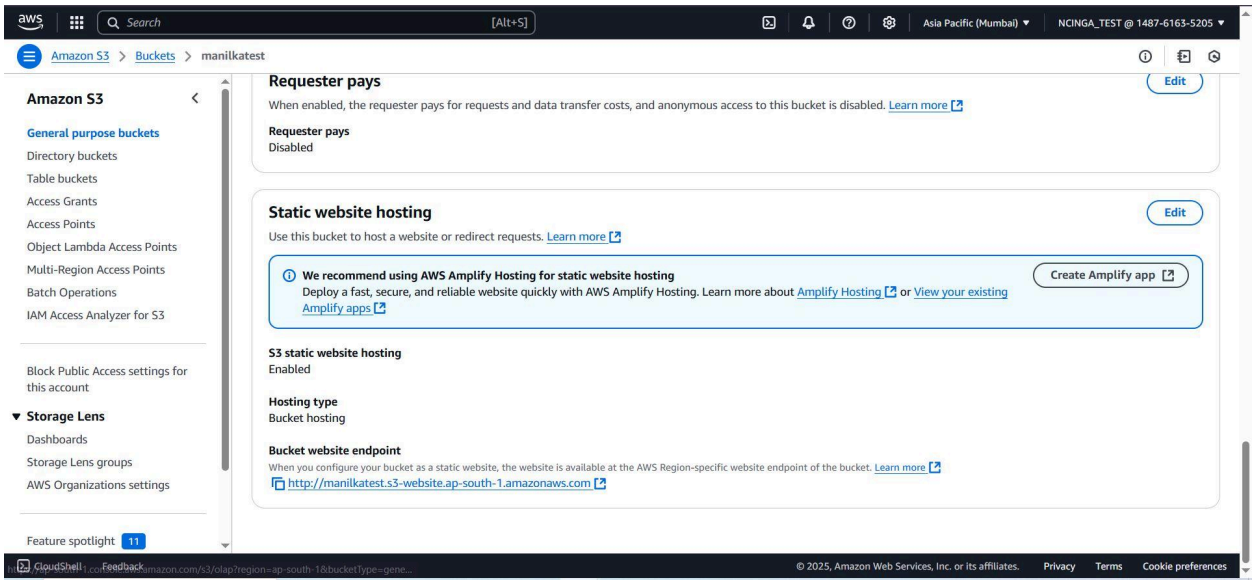
Enable Static Web



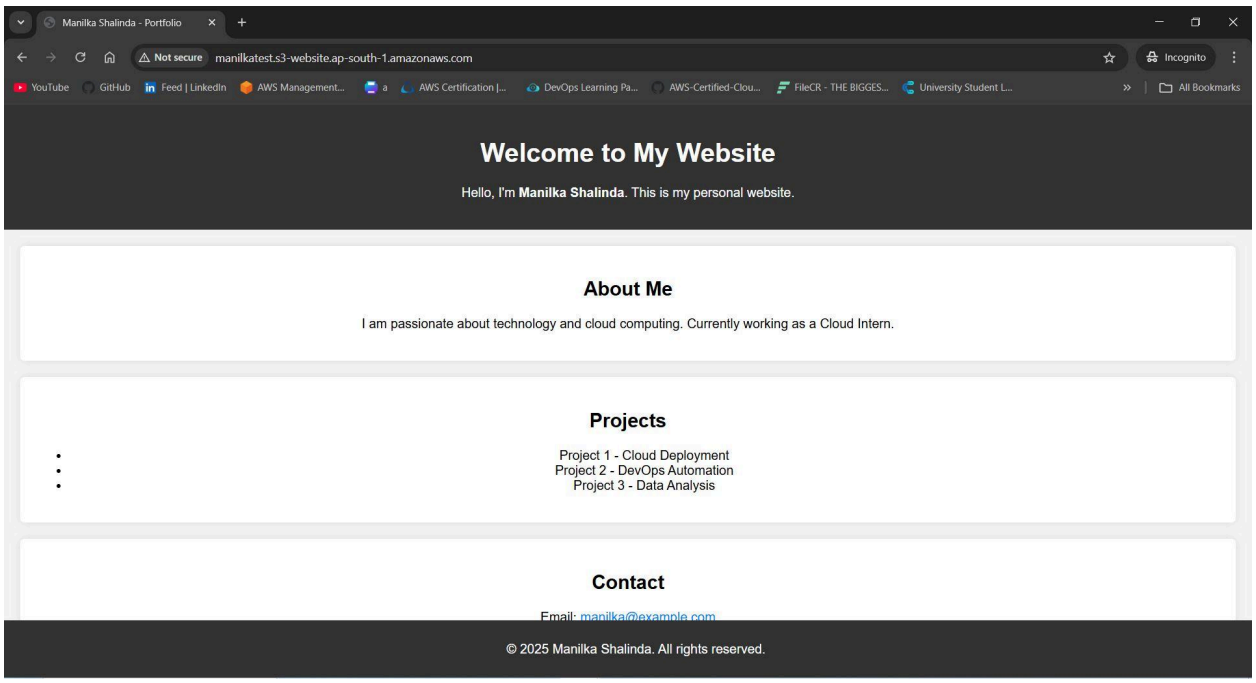
Edit Bucket Policy



Static Web Endpoint

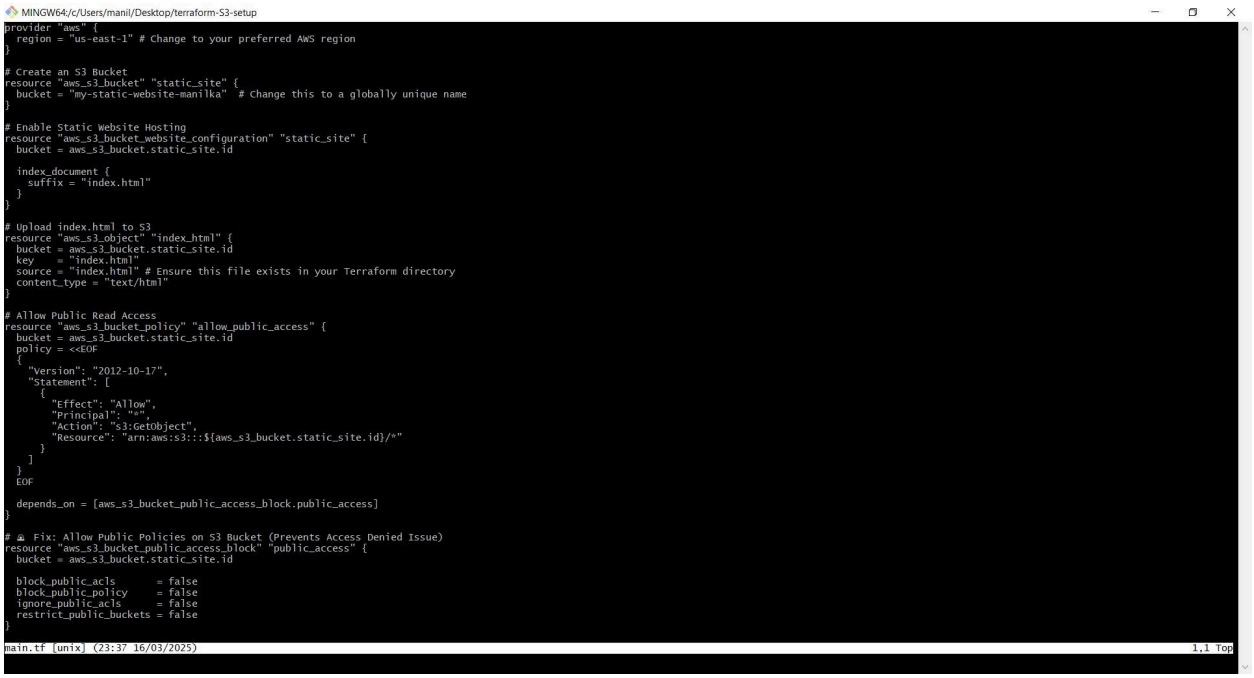


Web View



Automate Static In S3

Terraform file

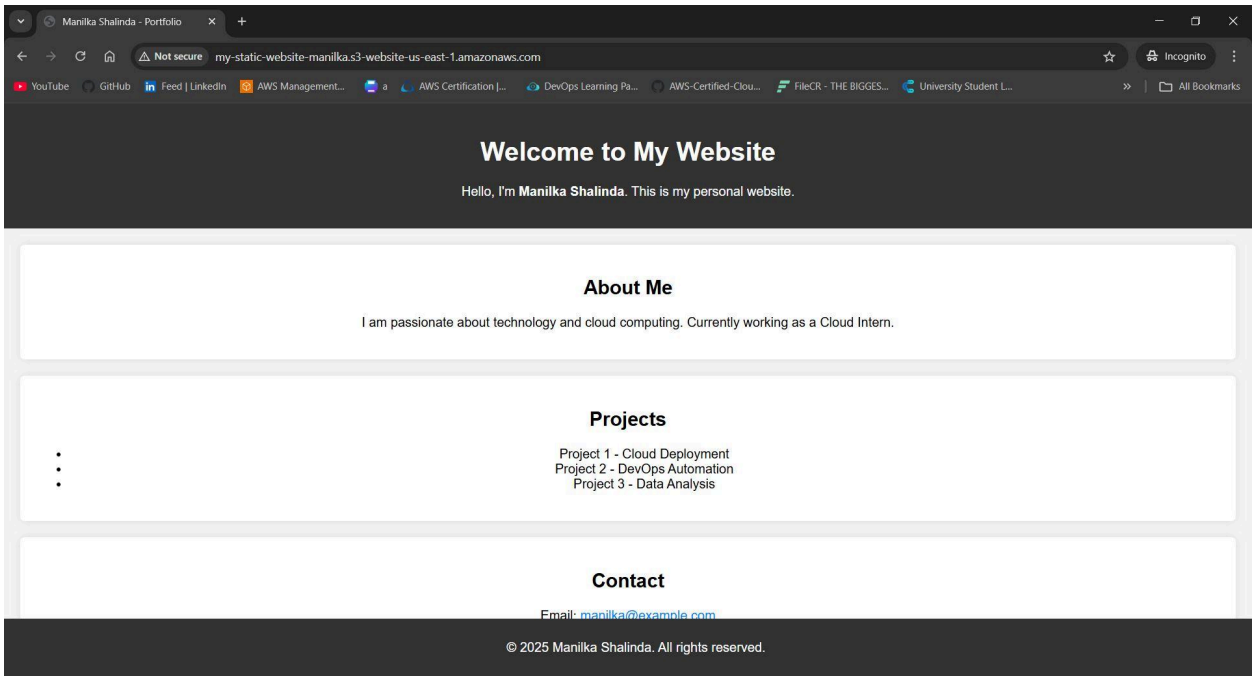


Codes

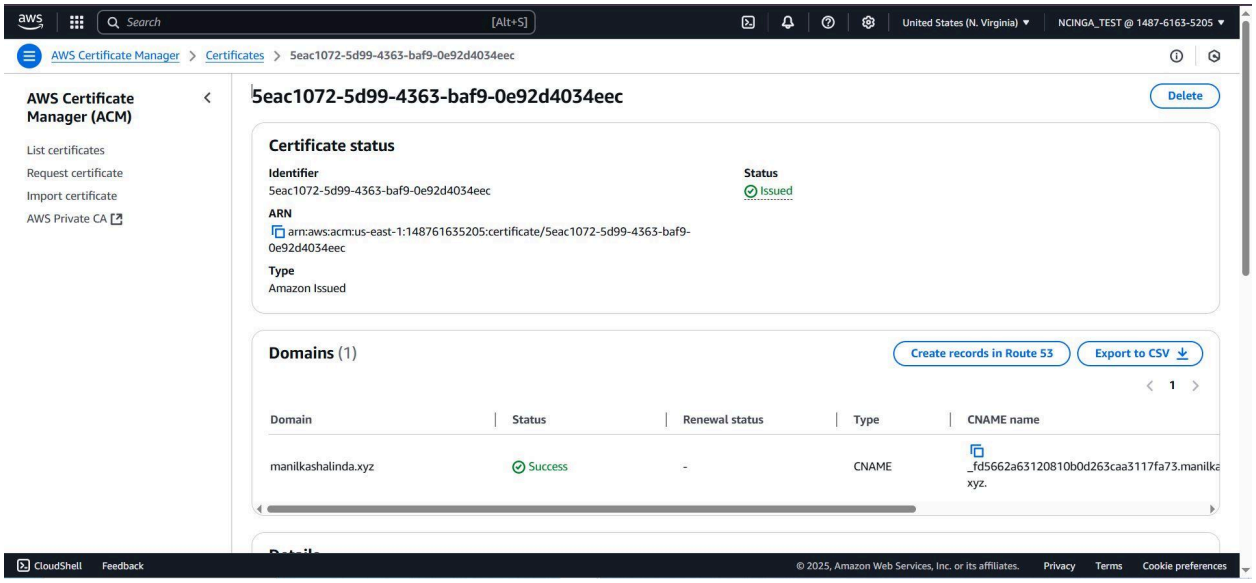
```
  532  cd
  533  cd Desktop/
  534  mkdir terraform-S3-setup && cd terraform-S3-setup
  535  touch main.tf
  536  vi main.tf
  537  terraform init
  538  terraform init
  539  terraform plan
  540  terraform init
  541  terraform plan
  542  terraform apply -auto-approve
  543  clear
  544  vi main.tf
  545  terraform init
  546  terraform plan
  547  terraform apply -auto-approve
  548  terraform output website_url
  549  history

manil@DESKTOP-E7NBFU2 MINGW64 ~/Desktop/terraform-S3-setup
$
```

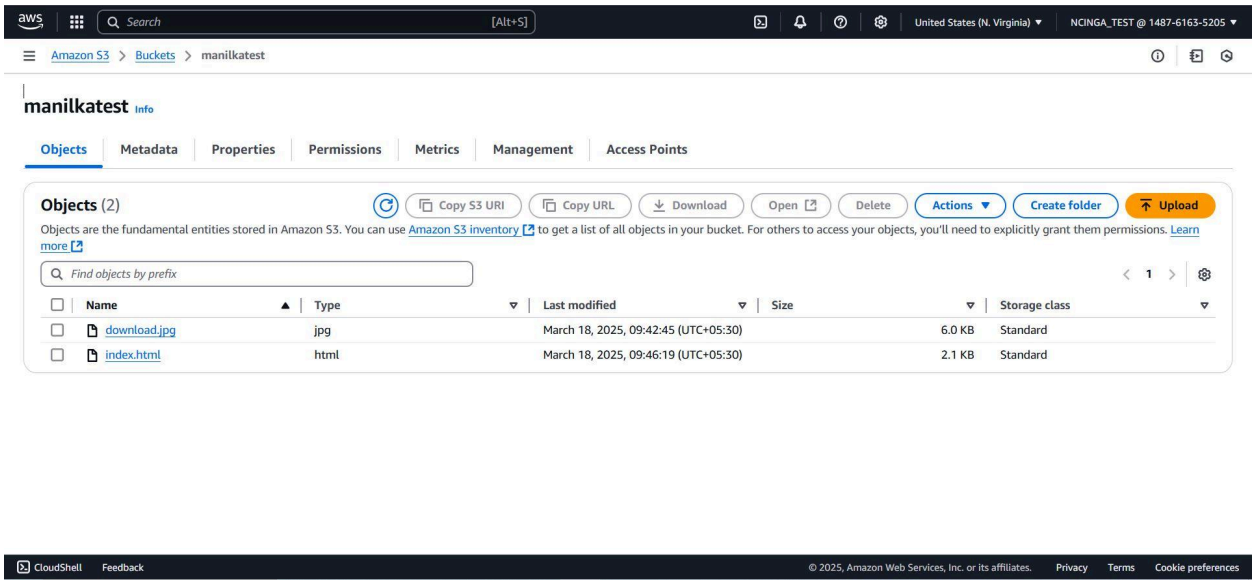
Web View



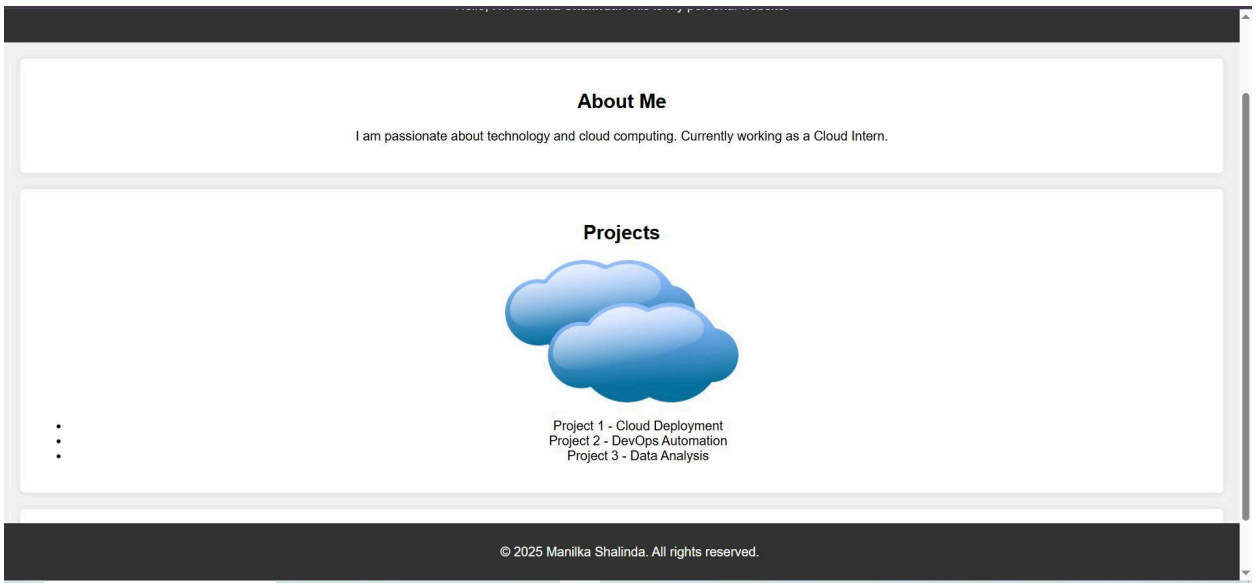
SSL Certificate



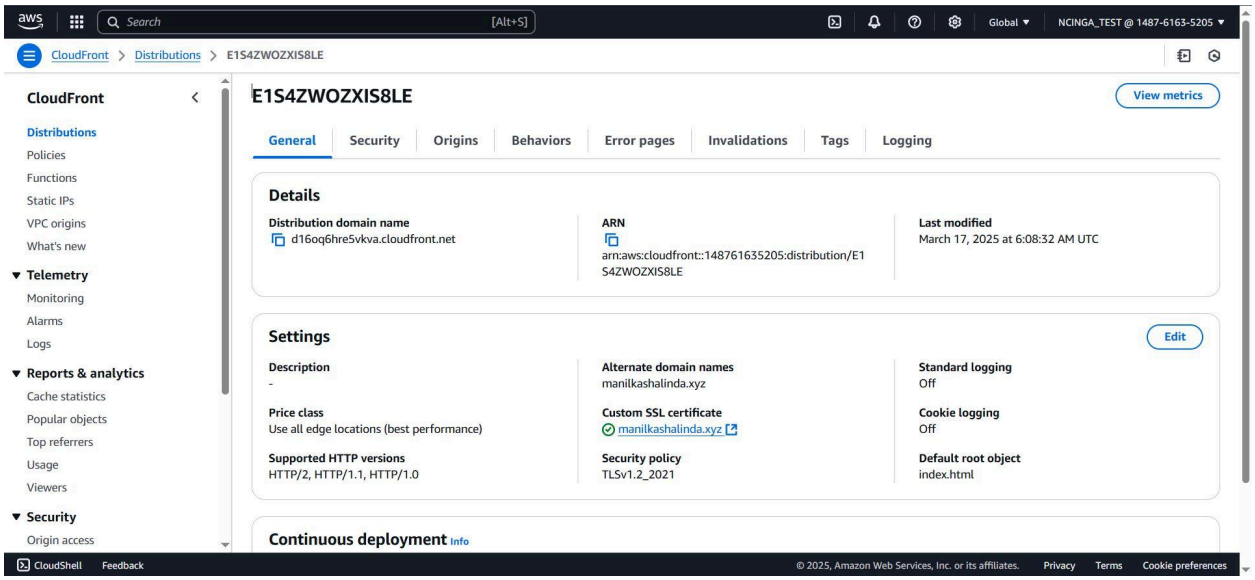
Static file storage



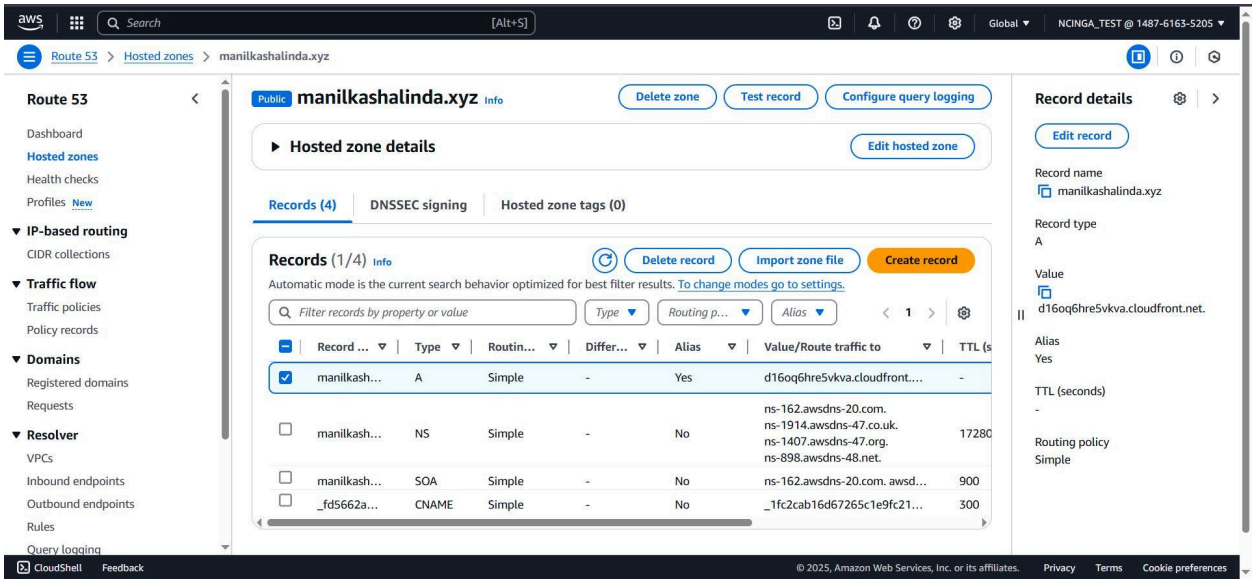
web view



CloudFront



Route53



Web View(HTTPS)