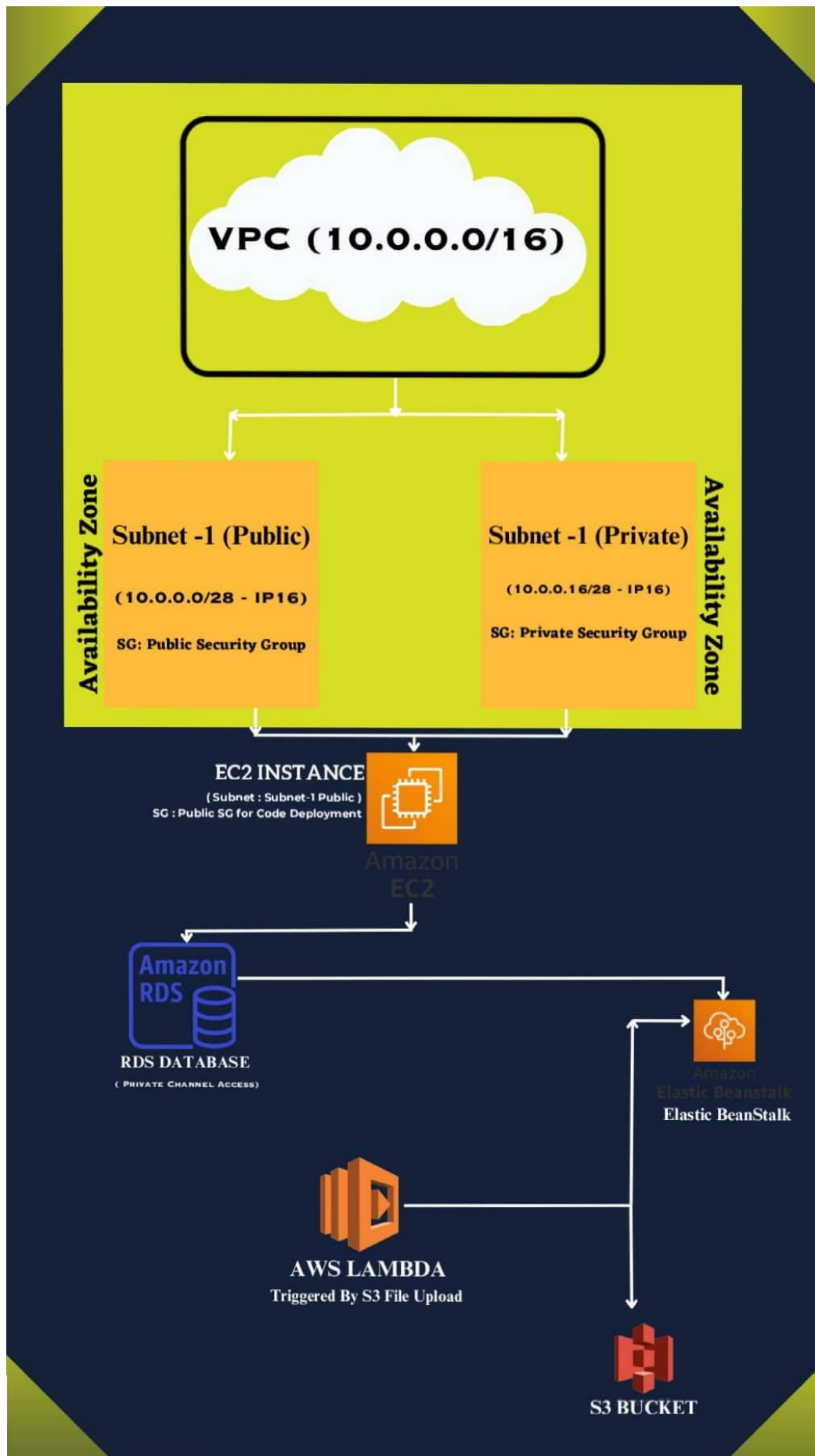


Architecture Diagram



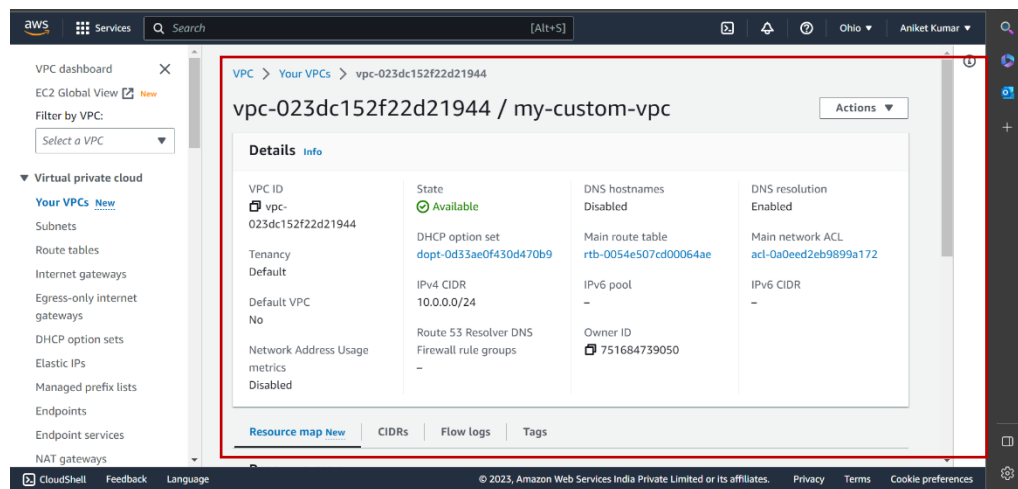
The provided architecture diagram showcases the various components and their relationships within an AWS infrastructure:

1. **AWS Account:** This represents the AWS account used for the project. An AWS account is a unique identifier associated with an individual or organization and serves as the foundation for provisioning and managing AWS resources.
2. **Virtual Private Cloud (VPC):** The VPC is a logically isolated virtual network environment within AWS. It allows you to define your own IP address range, subnets, route tables, and network gateways. The VPC acts as the networking foundation for the project, providing secure and isolated connectivity for the other components.
3. **Subnet 1 (Public):** This is a public subnet within the VPC, identified by the IP range 10.0.1.0/28. Public subnets are associated with a route table that has an internet gateway attached, enabling inbound and outbound internet traffic for the resources deployed within this subnet.
4. **Subnet 2 (Private):** This is a private subnet within the VPC, identified by the IP range 10.0.2.0/28. Private subnets are associated with a route table that does not have an internet gateway attached, restricting inbound internet traffic. This subnet is typically used for resources that require limited or no direct access from the internet.
5. **EC2 Instance:** An EC2 (Elastic Compute Cloud) instance is a virtual machine running within the AWS cloud. In this architecture, an EC2 instance is deployed in Subnet 1 (Public) and hosts the application code. It has access to the internet and can communicate with the RDS database instance via a private channel.
6. **RDS Database:** RDS (Relational Database Service) is a managed database service provided by AWS. It represents the database instance used by the application code. In this architecture, the RDS database instance is deployed in a private subnet (Subnet 2) to restrict direct internet access. The EC2 instance communicates with the RDS database via a private channel, ensuring secure and controlled access to the database.
7. **Elastic Beanstalk:** AWS Elastic Beanstalk is a platform-as-a-service (PaaS) offering that simplifies the deployment and management of applications. In this architecture, Elastic Beanstalk is used to deploy the application code. It provides an auto-scaling environment, automatically handling capacity provisioning and load balancing for the application.
8. **Lambda:** Lambda is a serverless computing service provided by AWS. It allows you to run code without provisioning or managing servers. In this architecture, a Lambda function is

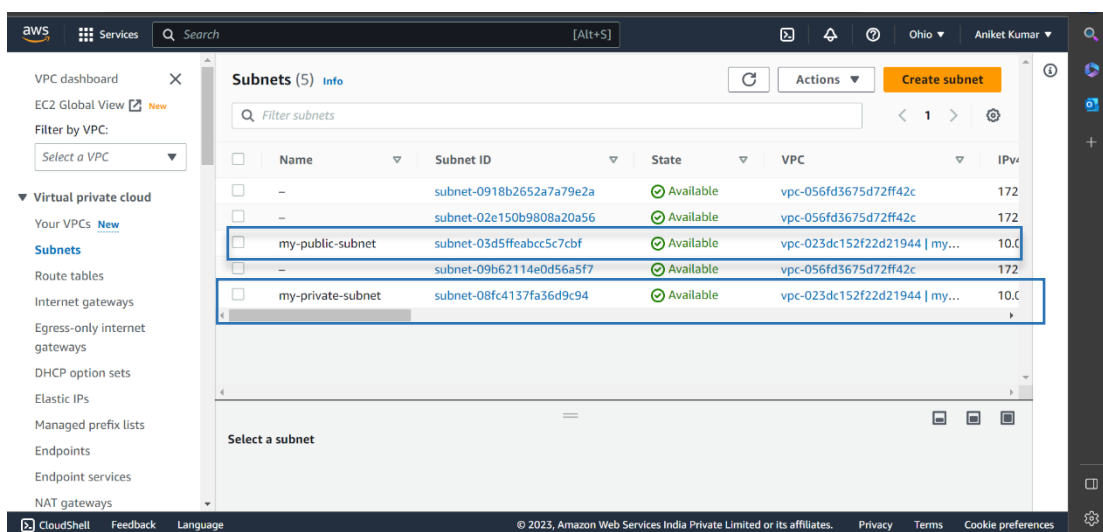
9. triggered by file uploads to the S3 bucket. Upon trigger, the Lambda function executes and performs a specific action, such as printing the name of the uploaded file. Lambda functions are typically used for event-driven and compute-intensive tasks.
10. S3 Bucket: Amazon S3 (Simple Storage Service) is a scalable object storage service provided by AWS. It is used for storing and retrieving large amounts of data. In this architecture, an S3 bucket is utilized for file storage. Whenever a file is uploaded to the S3 bucket, it triggers the Lambda function, initiating the desired action.

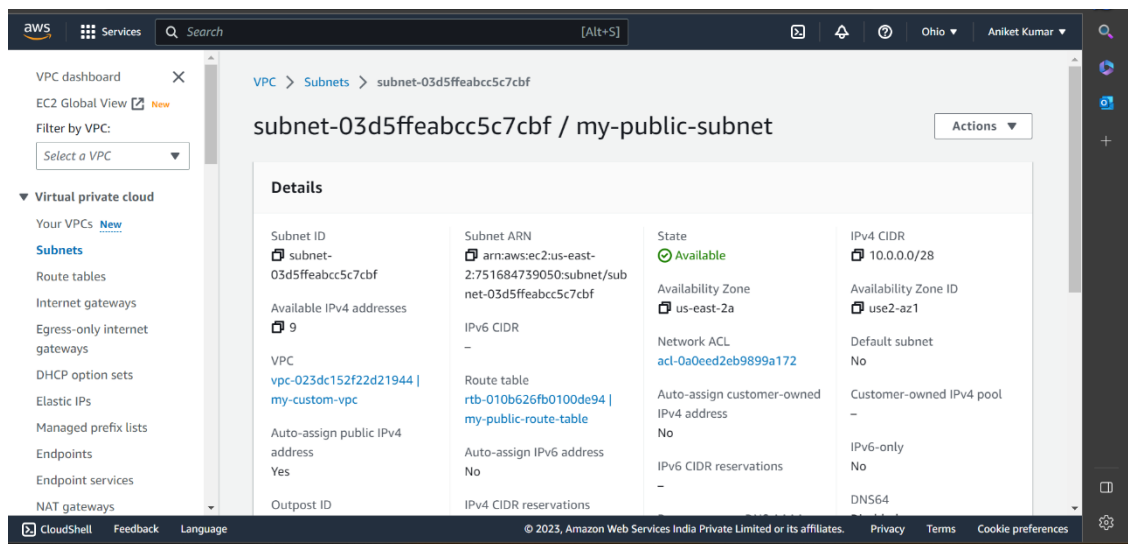
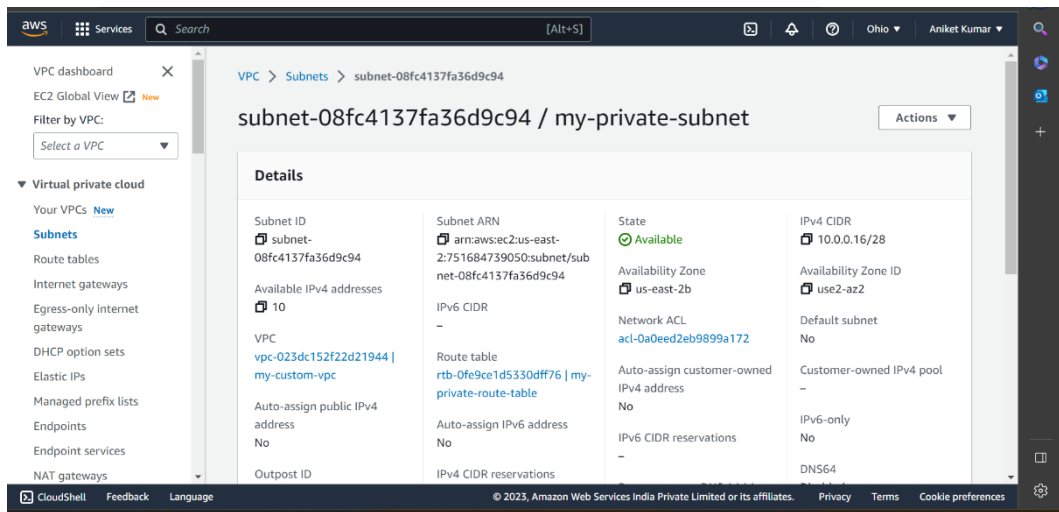
The following screenshots illustrate the above diagram.

VPC screenshots:

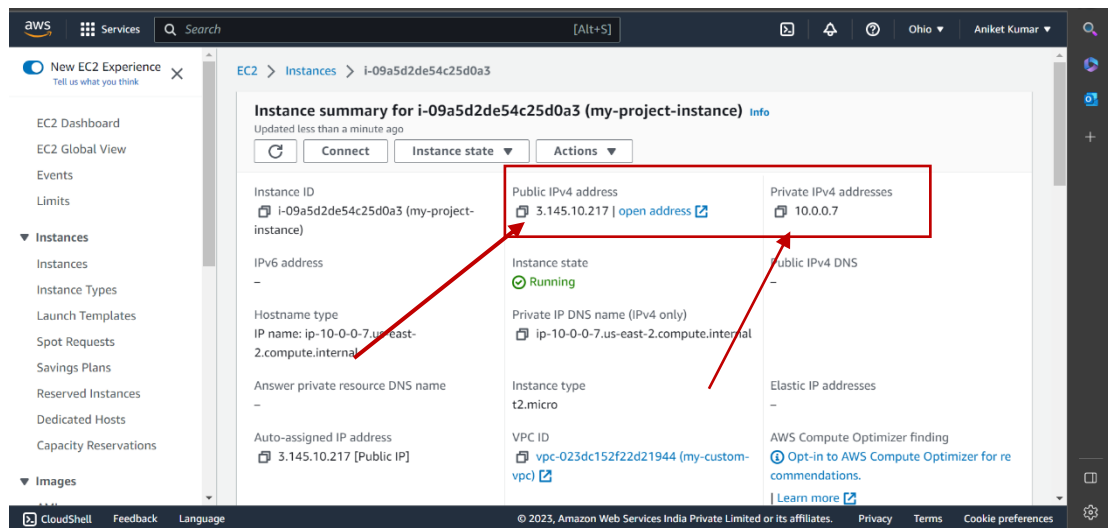


Subnet Screenshots

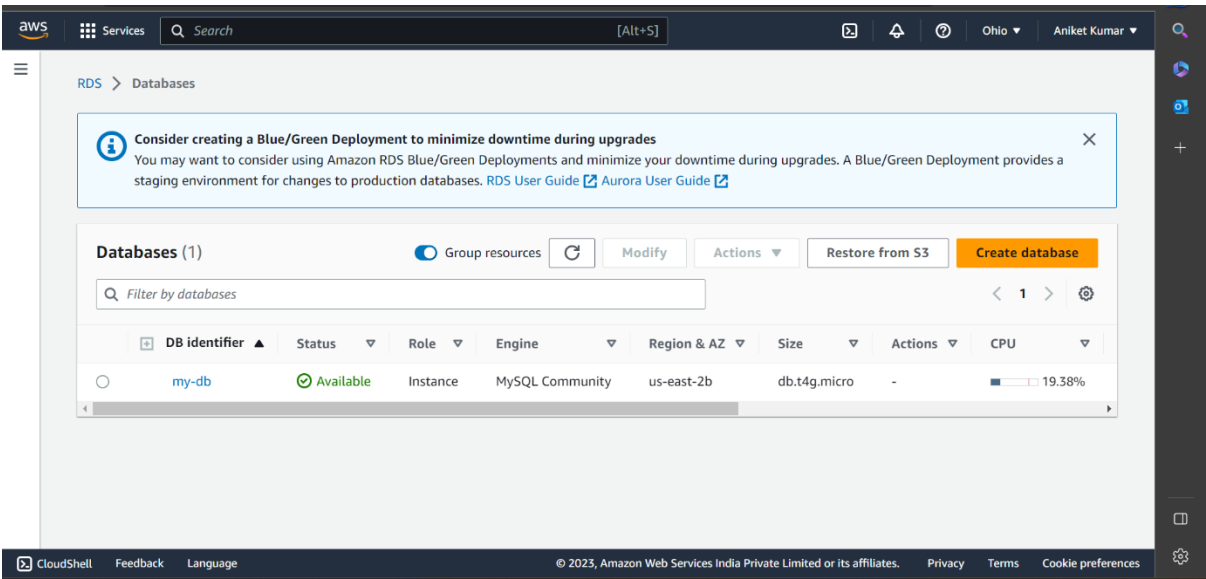
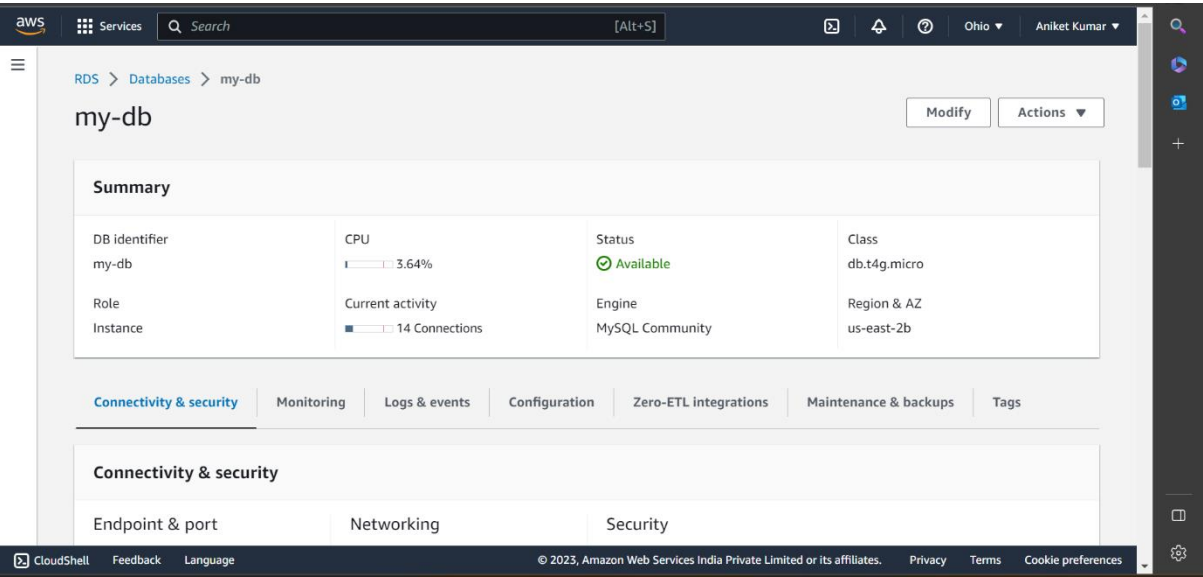


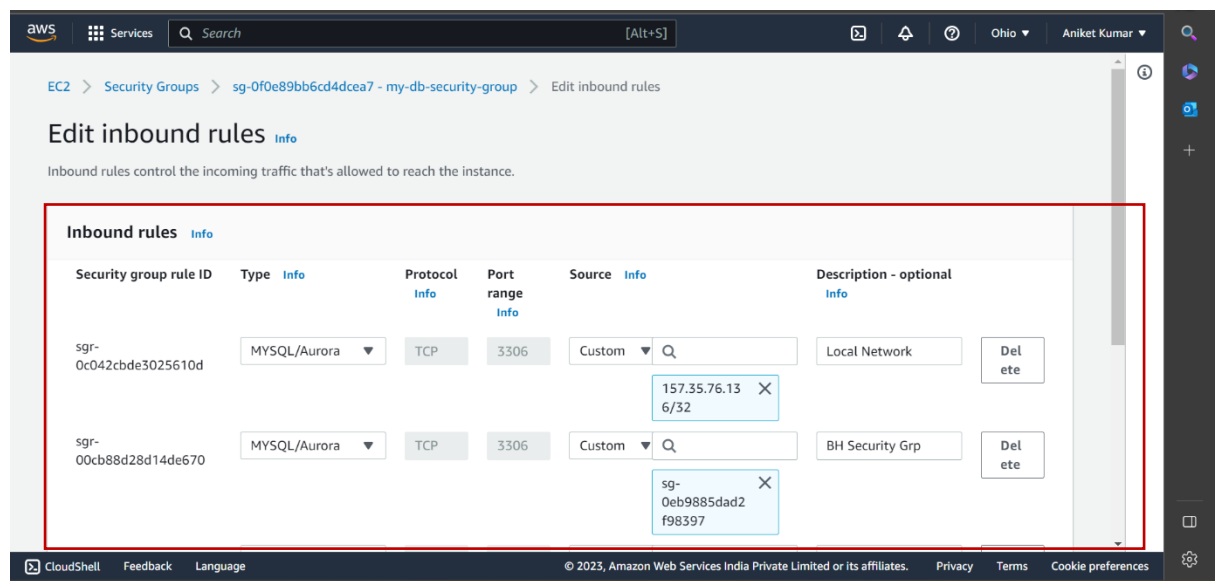
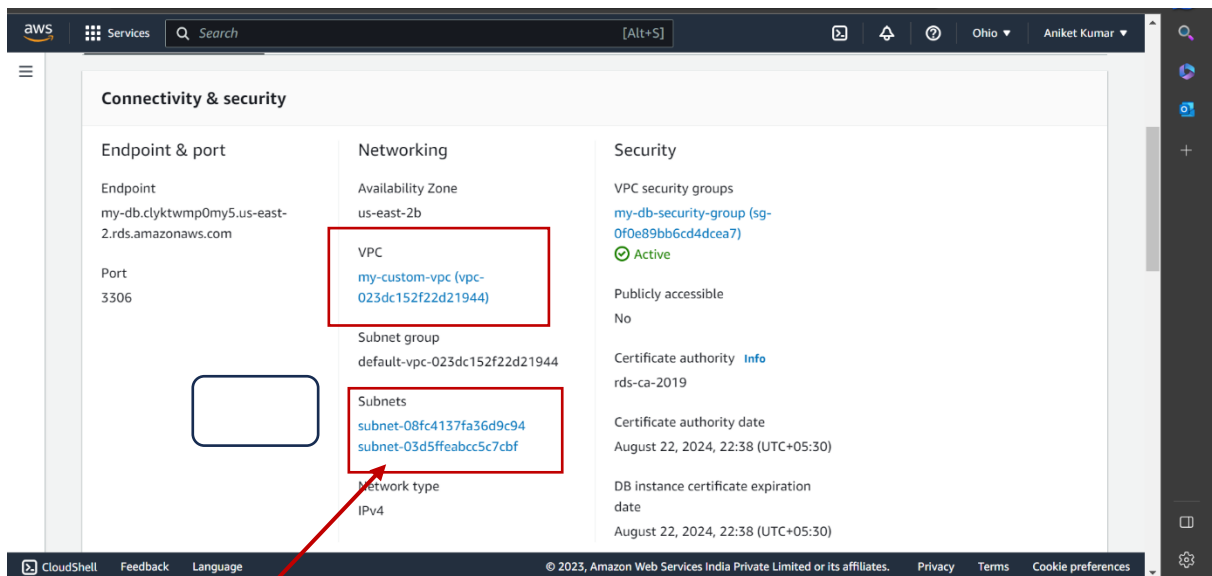


EC2 Screenshots:



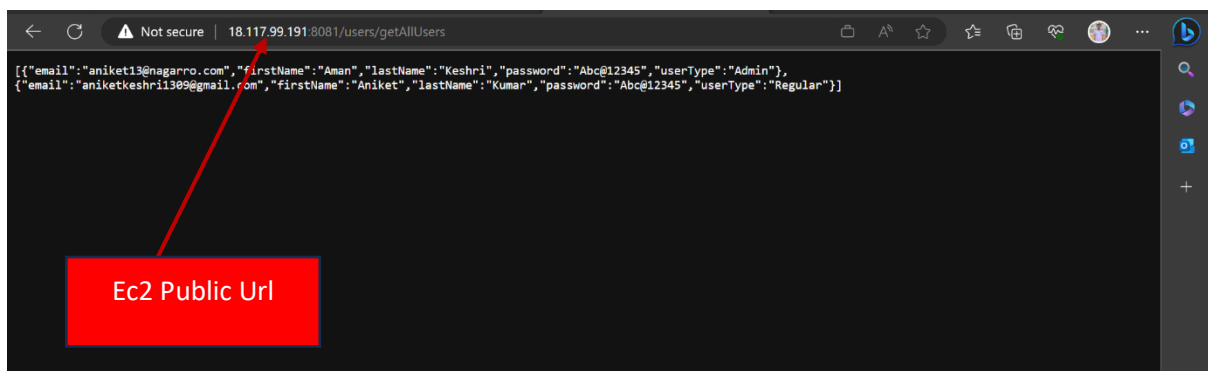
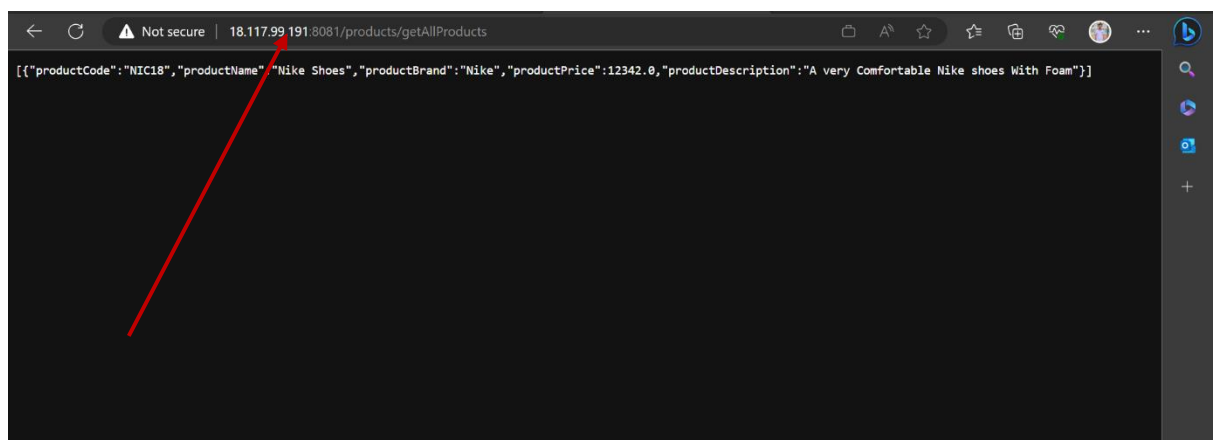
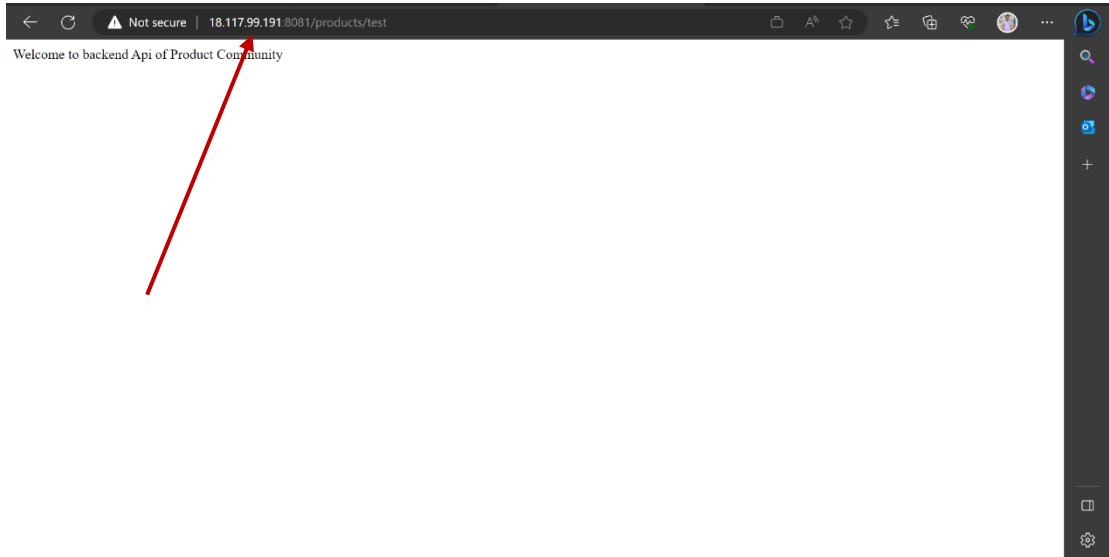
RDS Screenshots:





Project Running on EC2 Instance:

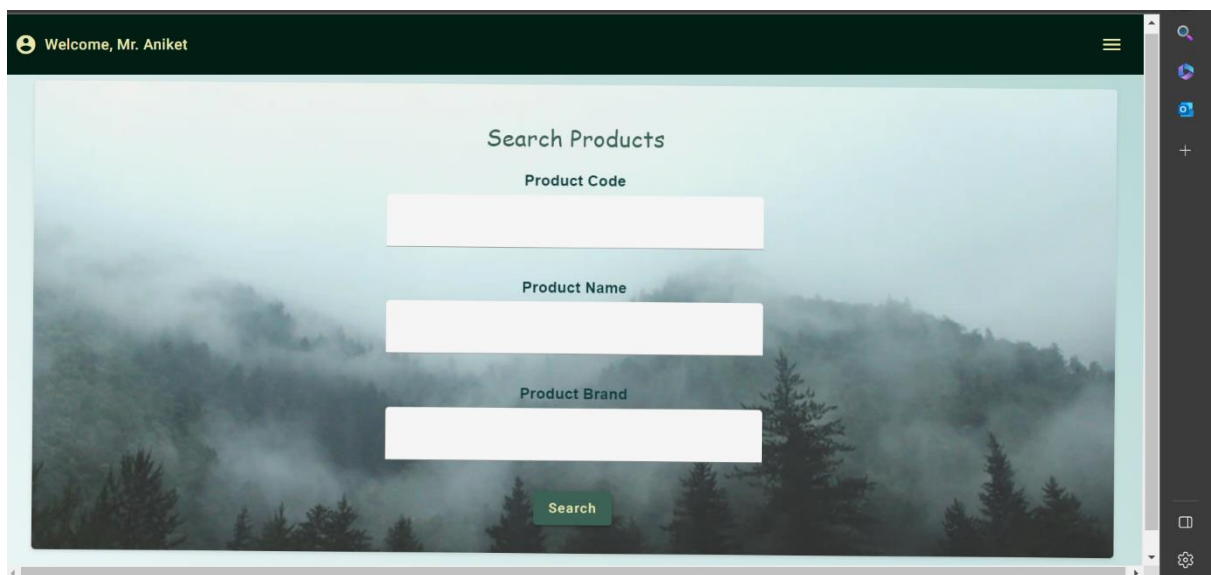
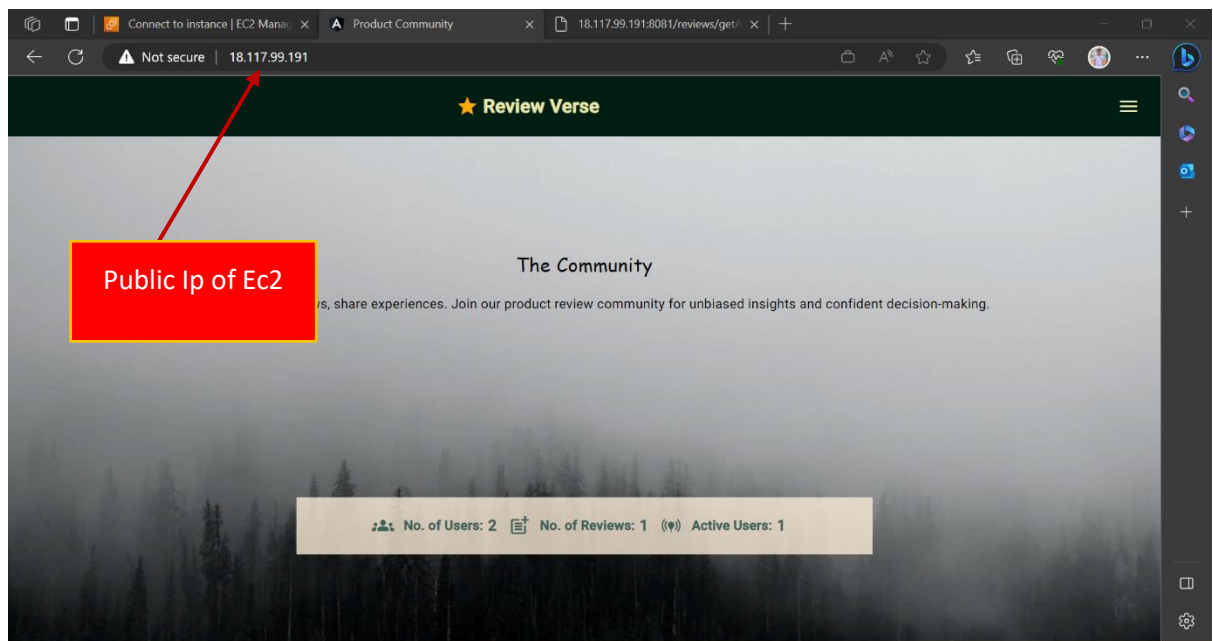
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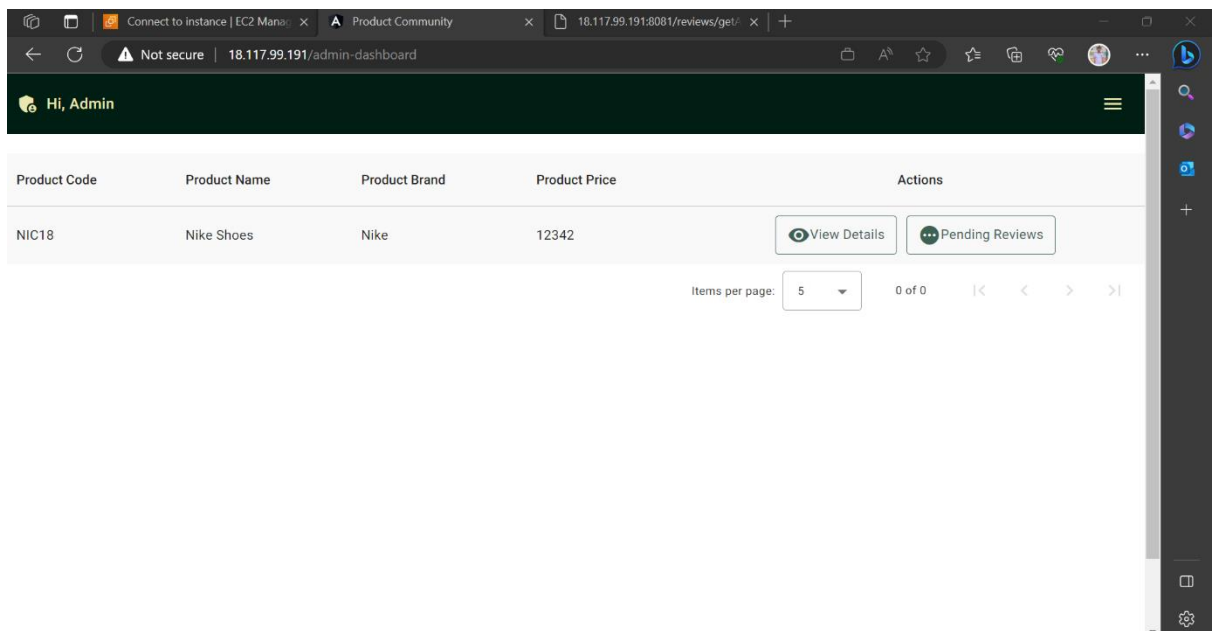
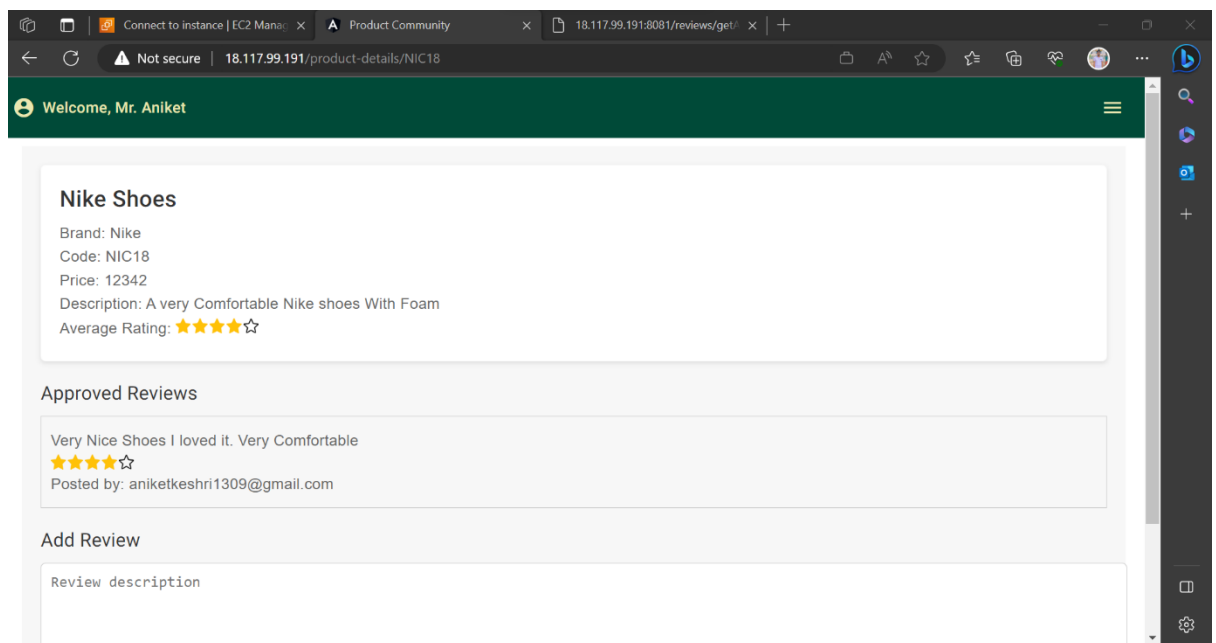
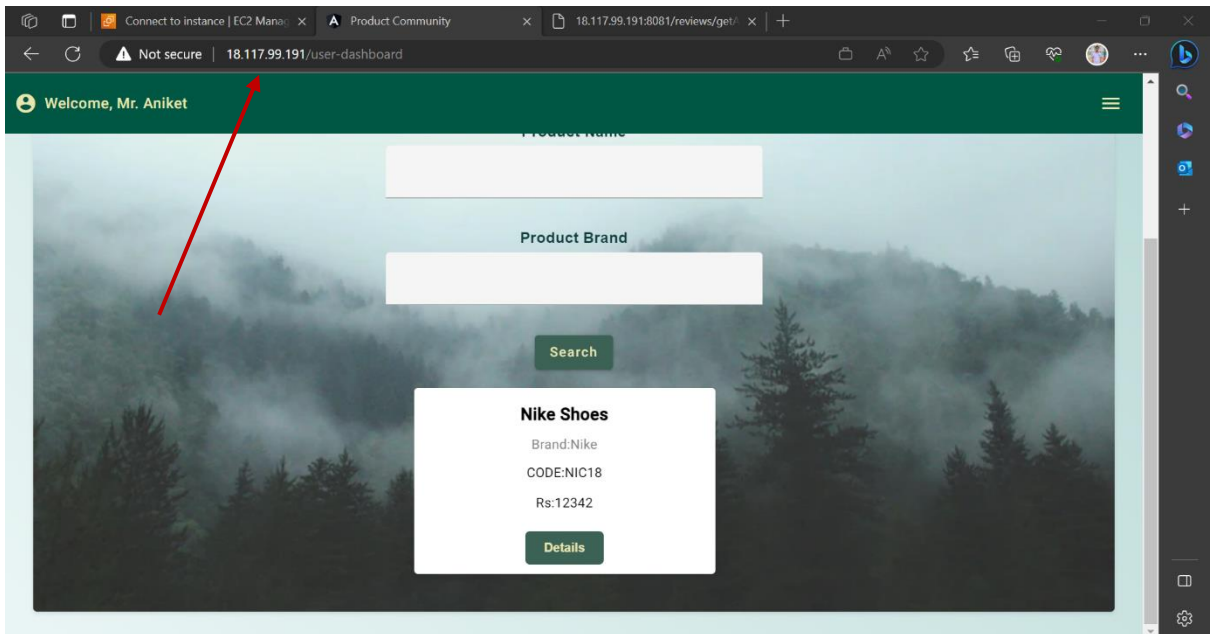


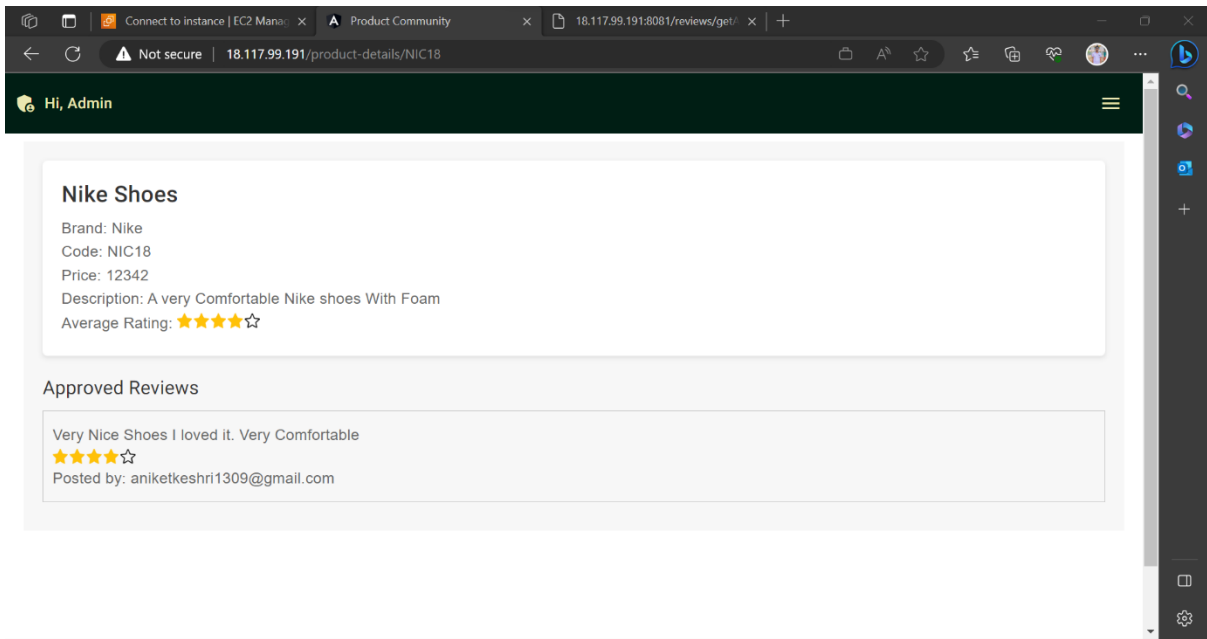
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Not secure | 18.117.99.191:8081/reviews/getAllReviews

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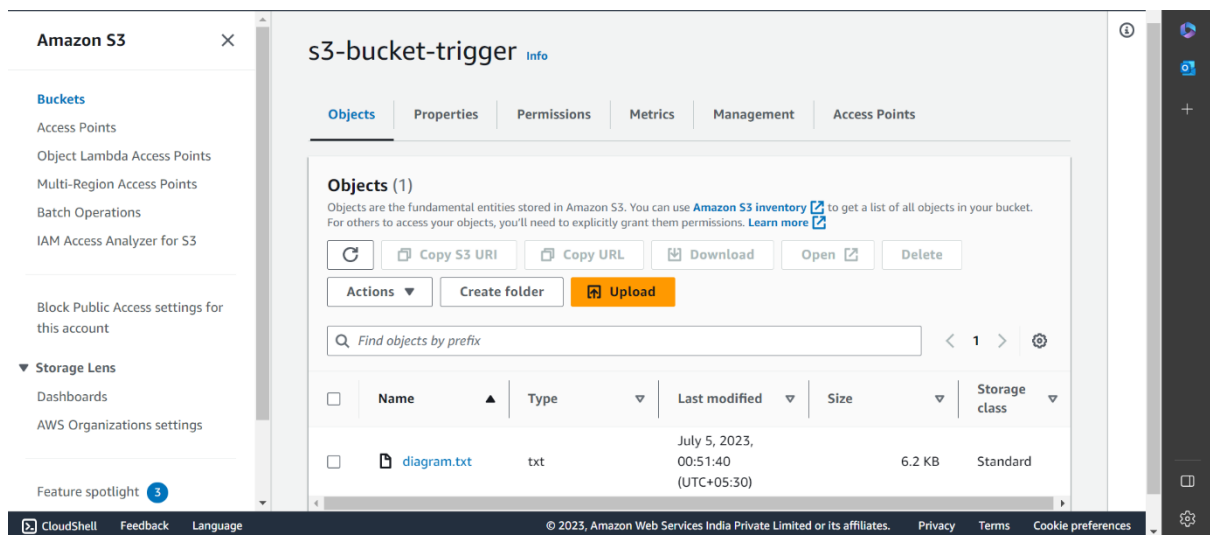
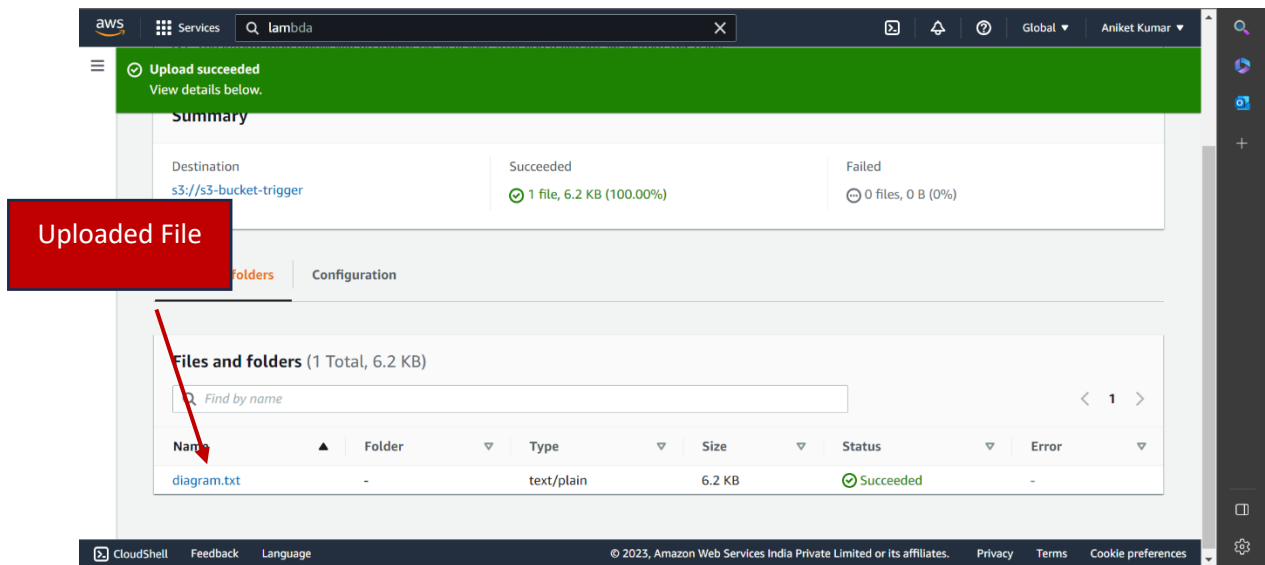
- Frontend

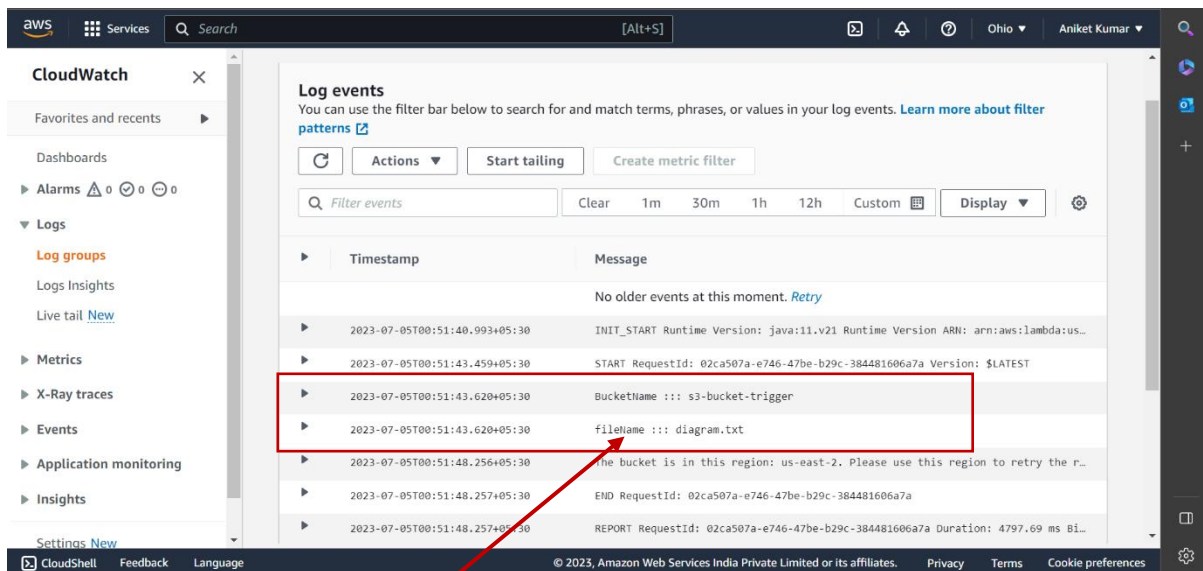
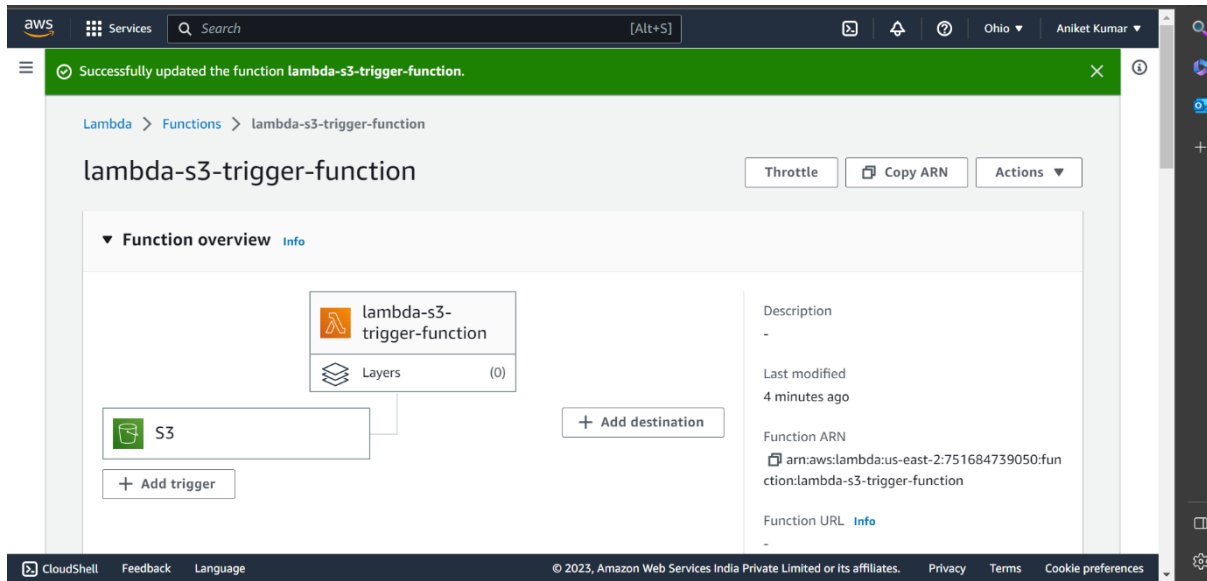






Lambda Function and S3 Bucket Screenshots

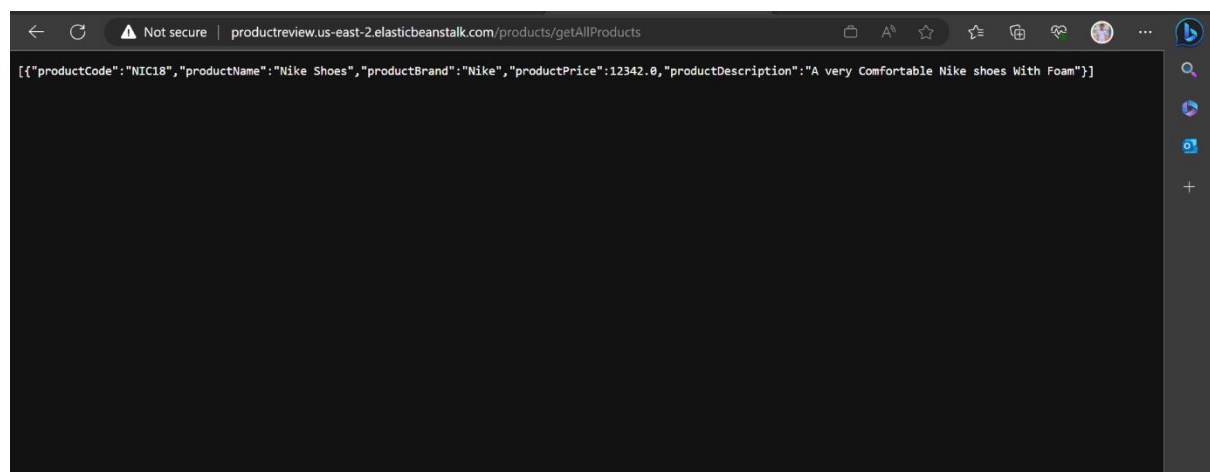
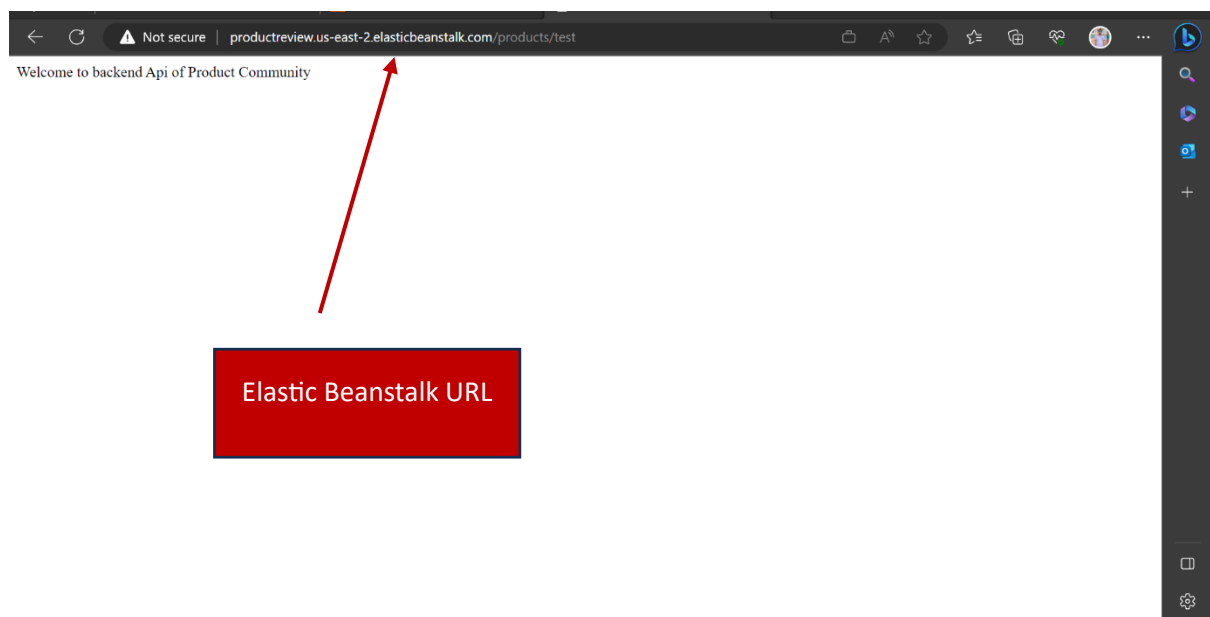
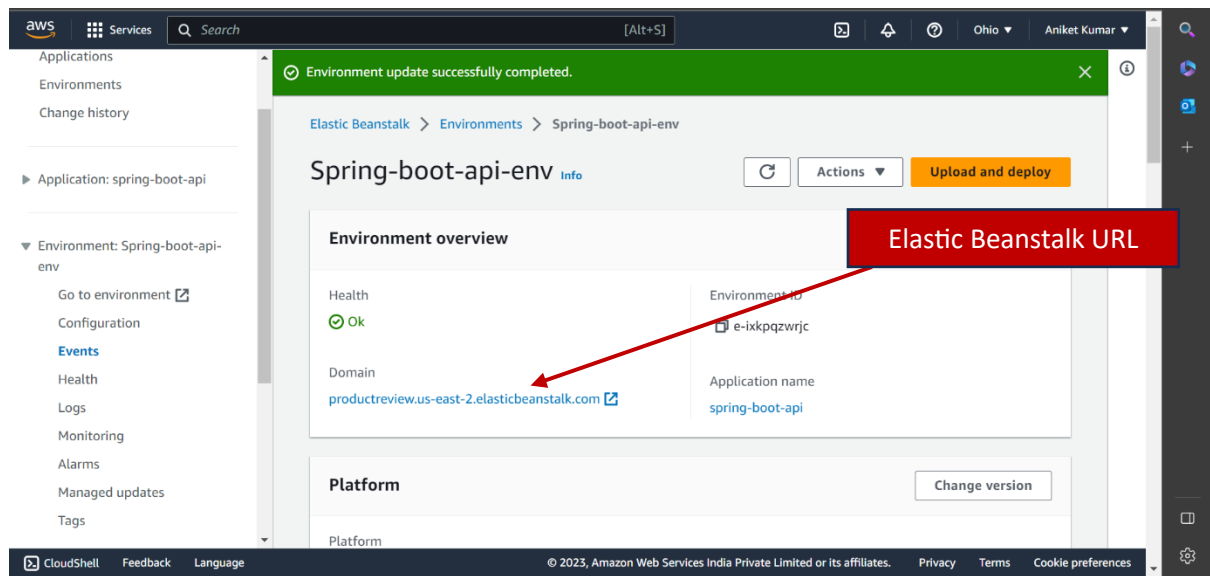




Here The lambda function prints Name of the File

Uploaded File Name
That Function is
Printing

Elastic Beanstalk Screenshots:



```
productreview.us-east-2.elasticbeanstalk.com/users/getAllUsers
[{"email":"aniket13@nagarro.com","firstName":"Aman","lastName":"Keshri","password":"Abc@12345","userType":"Admin"}, {"email":"aniketkeshri1309@gmail.com","firstName":"Aniket","lastName":"Kumar","password":"Abc@12345","userType":"Regular"}]
```

aws

Services

Search

[Alt+S]

Applications

Environments

Change history

Application: spring-boot-api

Environment: Spring-boot-api-env

Go to environment

Configuration

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

Environment update successfully completed.

Filter events by text, property or value

Time	Type	Details
July 6, 2023 22:04:09 (UTC+5:30)	INFO	Environment health has transitioned from Info to Ok. Application update completed 24 seconds ago and took 64 seconds.
July 6, 2023 22:03:55 (UTC+5:30)	INFO	Deleted log fragments for this environment.
July 6, 2023 22:02:58 (UTC+5:30)	INFO	Environment update completed successfully.
July 6, 2023 22:02:58 (UTC+5:30)	INFO	Successfully deployed new configuration to environment.
July 6, 2023 22:02:58 (UTC+5:30)	INFO	New application version was deployed to running EC2 instances.
July 6, 2023 22:02:36 (UTC+5:30)	INFO	Instance deployment completed successfully.

CloudShell

Feedback

Language

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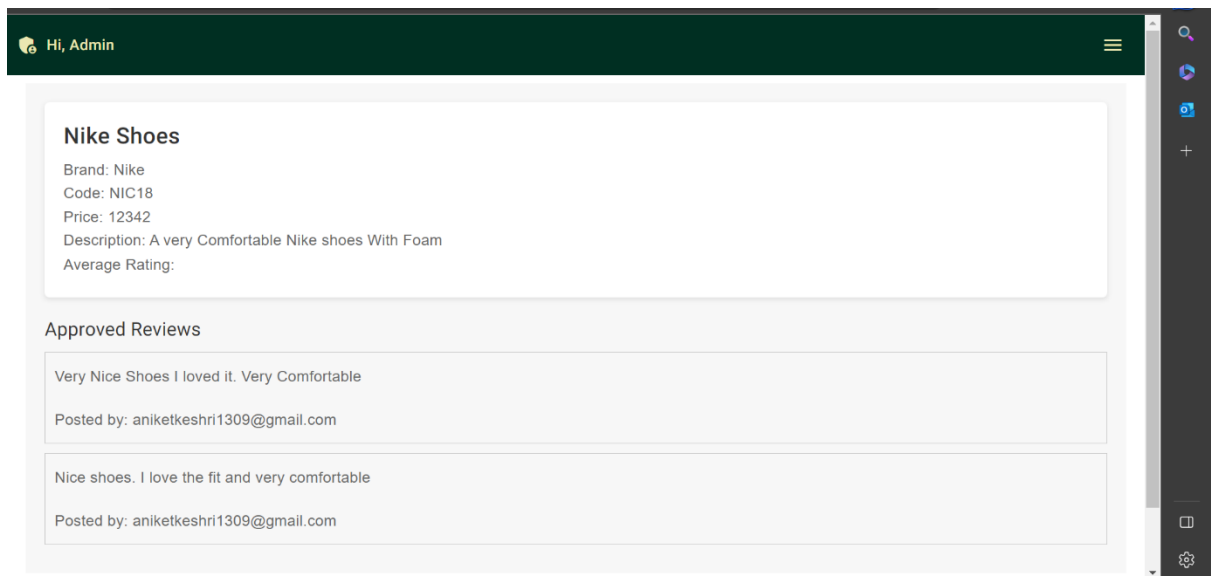
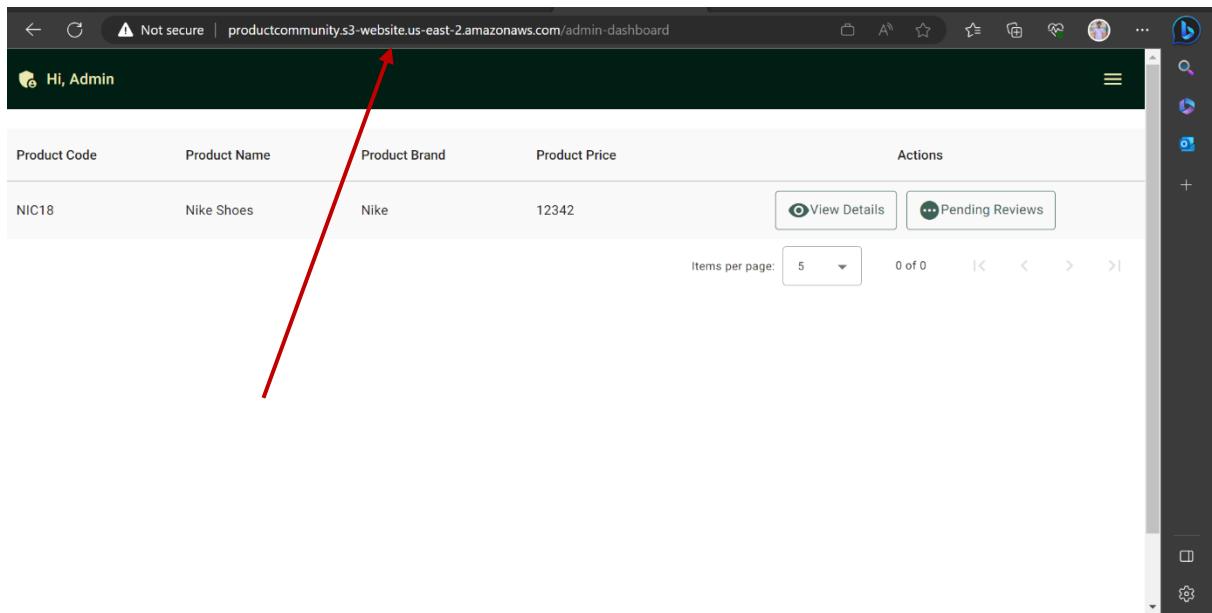
★ Review Verse

The Community

Discover trusted reviews, share experiences. Join our product review community for unbiased insights and confident decision-making.

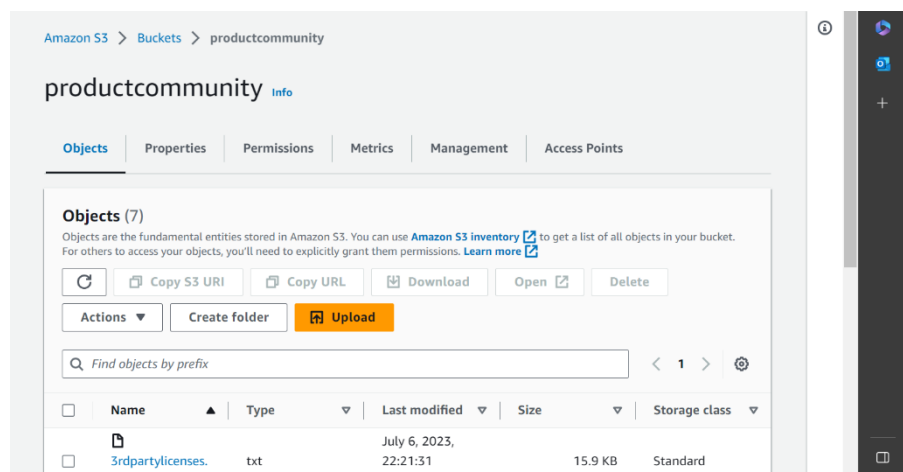
S3 Bucket Deployed URL





No. of Users: 2 No. of Reviews: 2 Active Users: 1



S3 Bucket Screenshots:

Here I uploaded my angular web after uploading springboot application on Elastic beanstalk.



<input type="checkbox"/>	Name ▲	Type ▼	Last modified ▼	Size ▼	Storage class ▼
<input type="checkbox"/>	 index.html	html	22:21:34 (UTC+05:30)	7.4 KB	Standard
<input type="checkbox"/>	 main.9516931130484185.js	js	July 6, 2023, 22:21:37 (UTC+05:30)	743.4 KB	Standard
<input type="checkbox"/>	 polyfills.81a9da55235c1fe7.js	js	July 6, 2023, 22:21:39 (UTC+05:30)	33.1 KB	Standard
<input type="checkbox"/>	 runtime.68c8c447094be77.js	js	July 6, 2023, 22:21:41 (UTC+05:30)	930.0 B	Standard

productcommunity [Info](#)

Objects

Properties

Permissions

Metrics

Management


Access Points

Bucket overview

AWS Region

US East (Ohio) us-east-2

Amazon Resource Name (ARN)

 arn:aws:s3:::productcommunity

Creation date

July 6, 2023, 22:19:33 (UTC+05:30)