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BRANCH: T.E. – I.T.

SEMESTER: ODD SEMESTER 5

COURSE: Advance DevOPs (ITL504)

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EXPERIMENT 11

1. What is AWS Elastic Beanstalk?

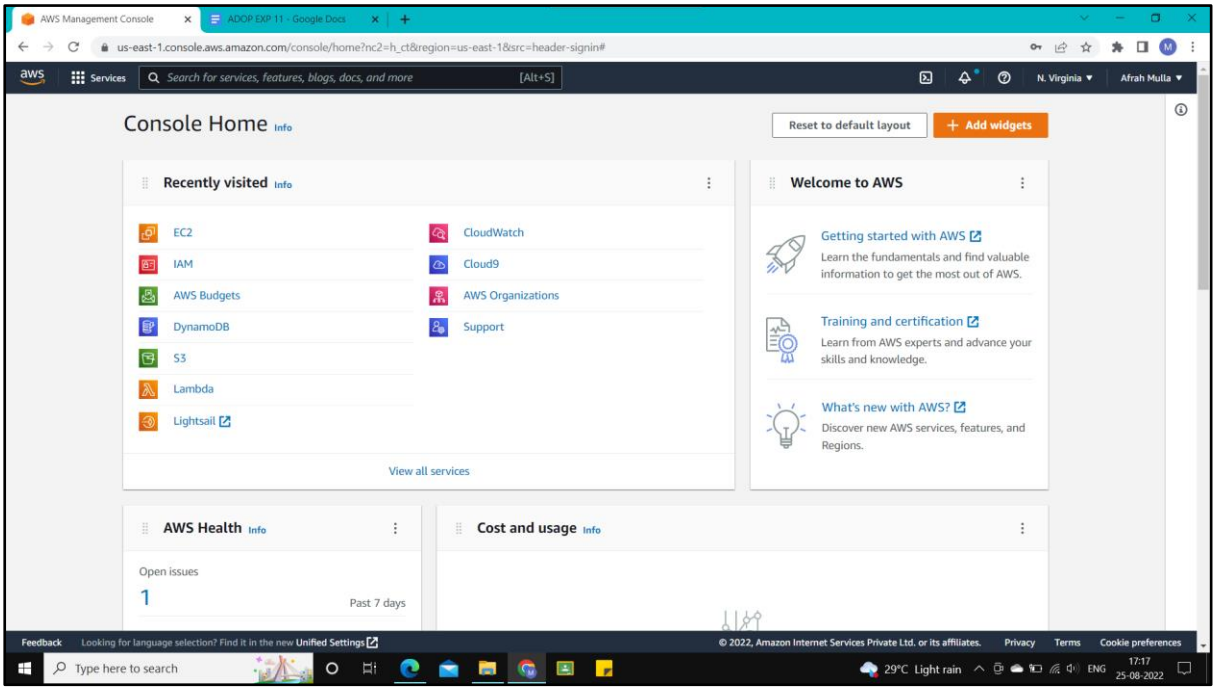
AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS. You can simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, auto-scaling to application health monitoring. At the same time, you retain full control over the AWS resources powering your application and can access the underlying resources at any time.

2. Who should use AWS Elastic Beanstalk?

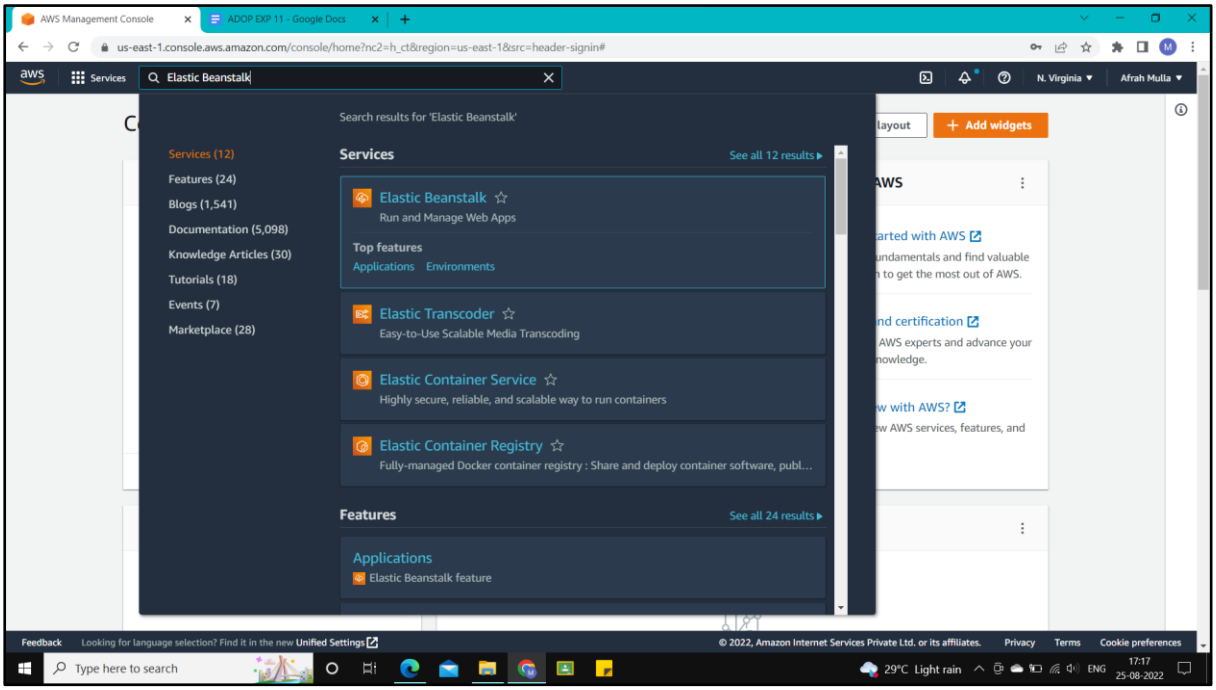
Those who want to deploy and manage their applications within minutes in the AWS Cloud. You don't need experience with cloud computing to get started. AWS Elastic Beanstalk supports Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker web applications.

3. Deploy a web Application [any language] using AWS Elastic Beanstalk.

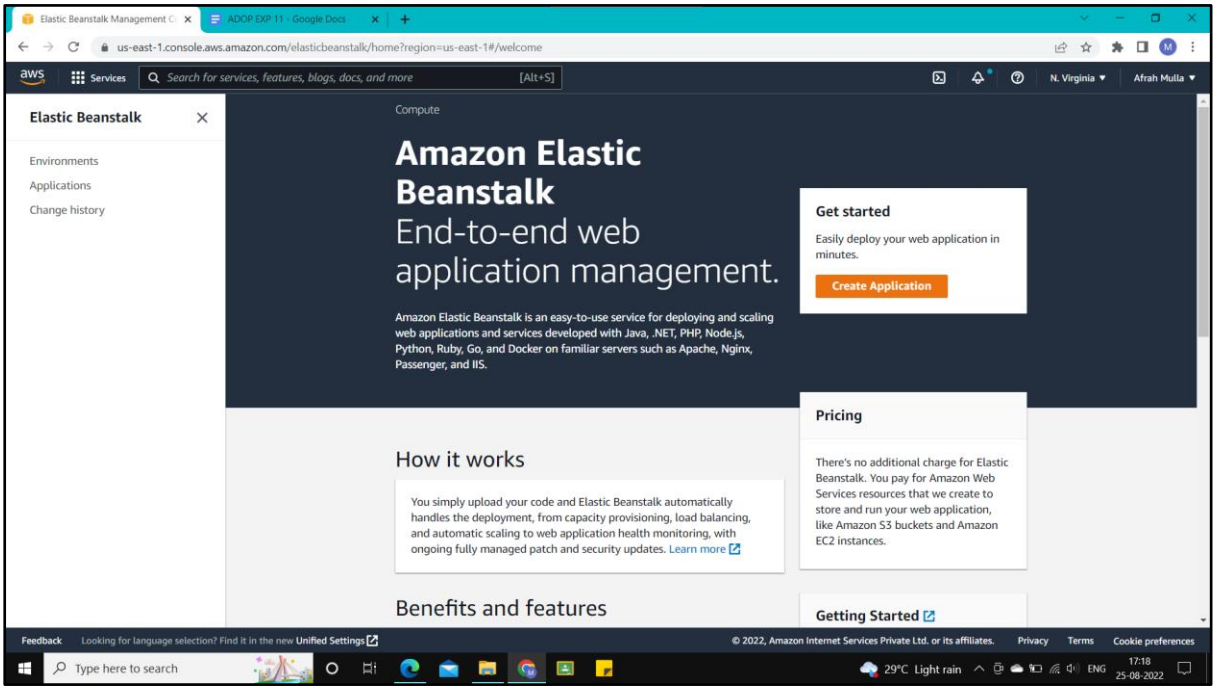
Step 1: AWS Management Console Dashboard



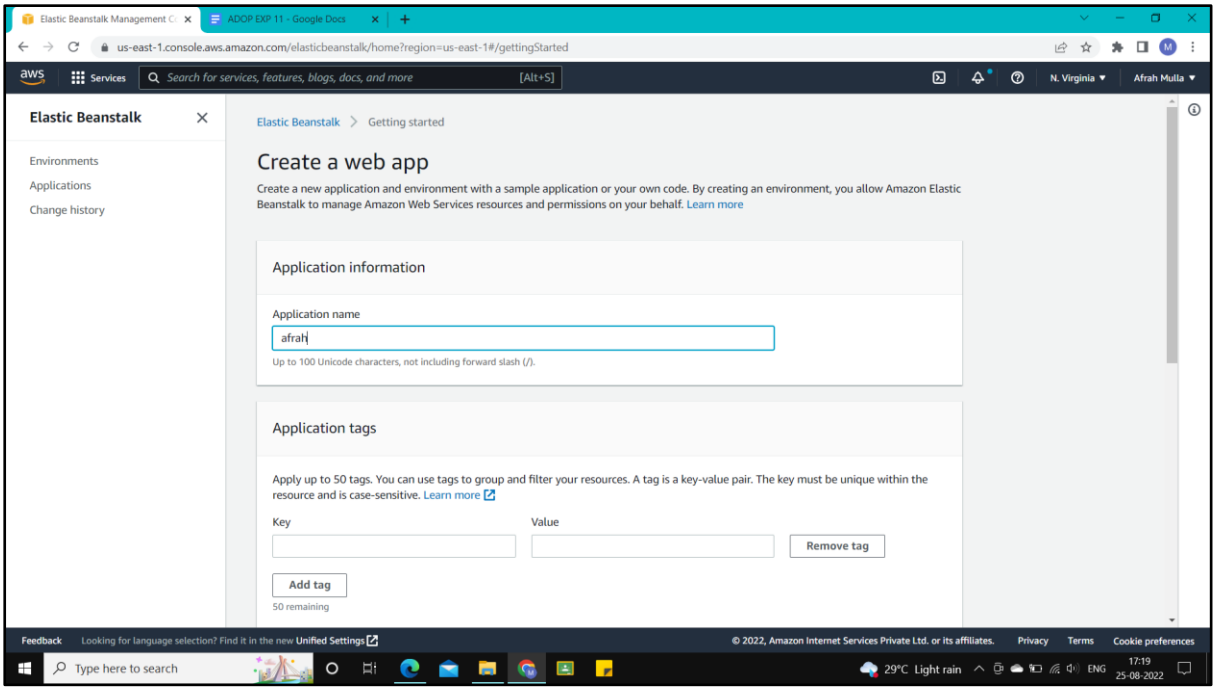
Step 2: Search for Elastic Beanstalk and select it

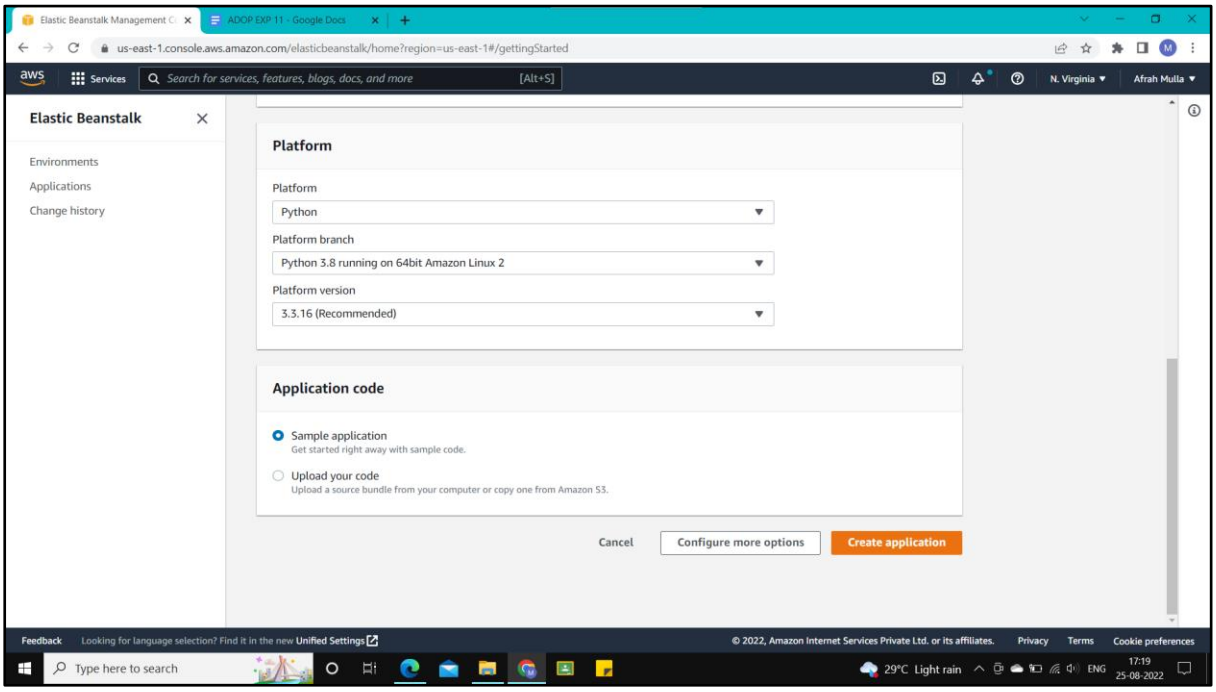


Step 3: Create Application

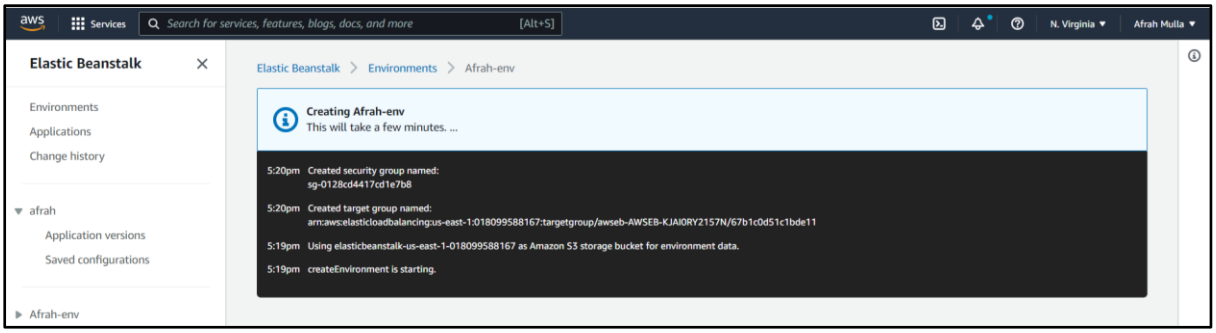


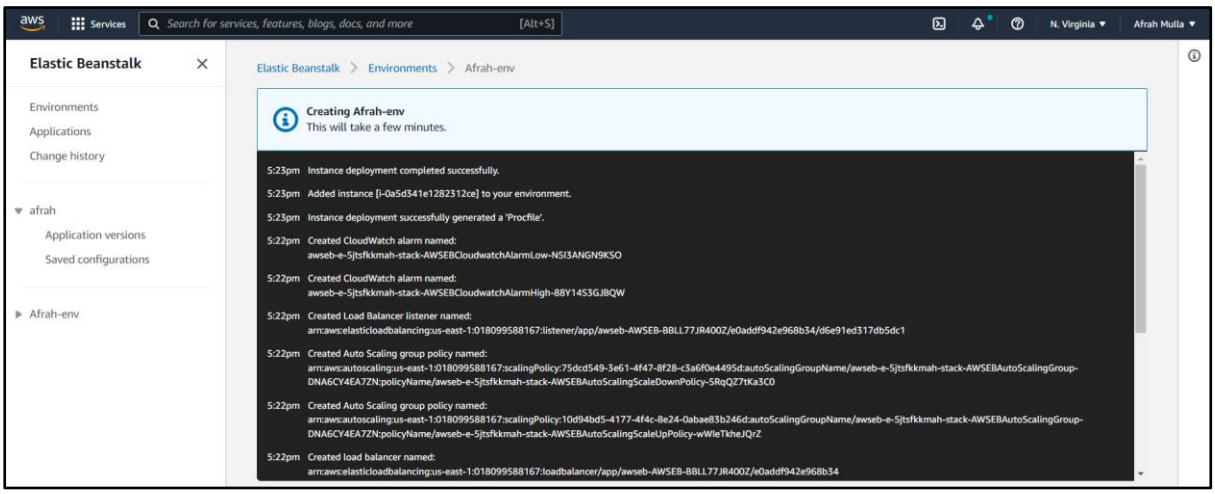
Step 4: Assign a name to your application -> Select Platform (Here, Python) -> Application code: Sample code -> Create Application



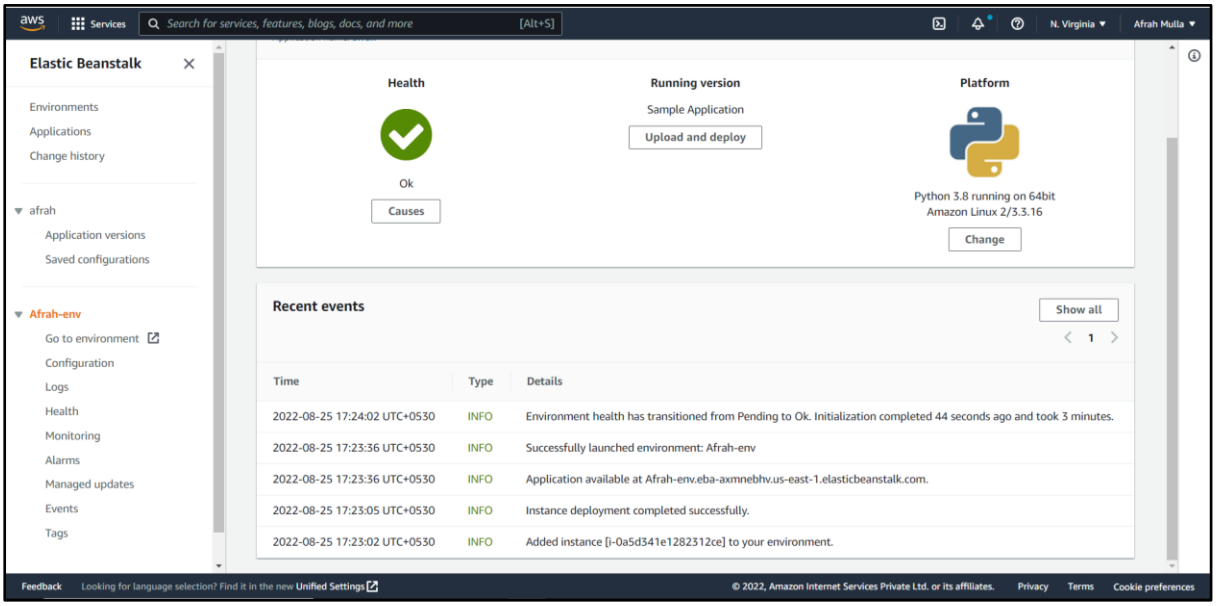


Step 5: The application will be in the process of creation and it might take a few minutes

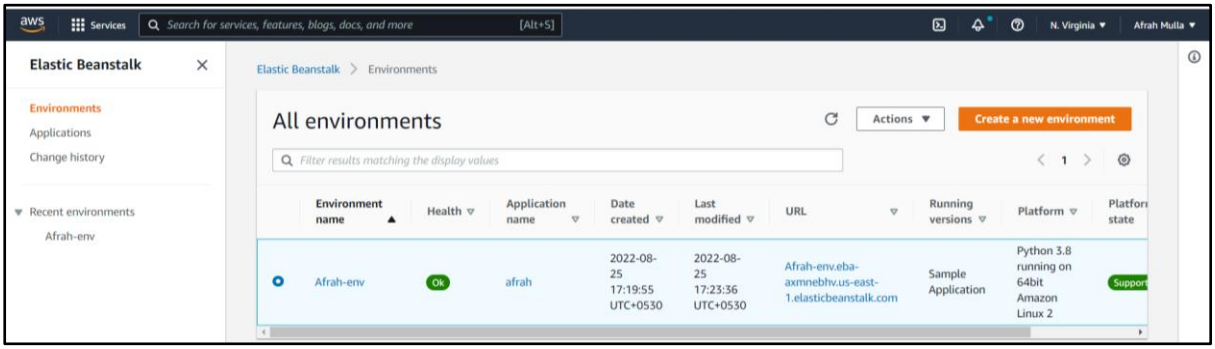




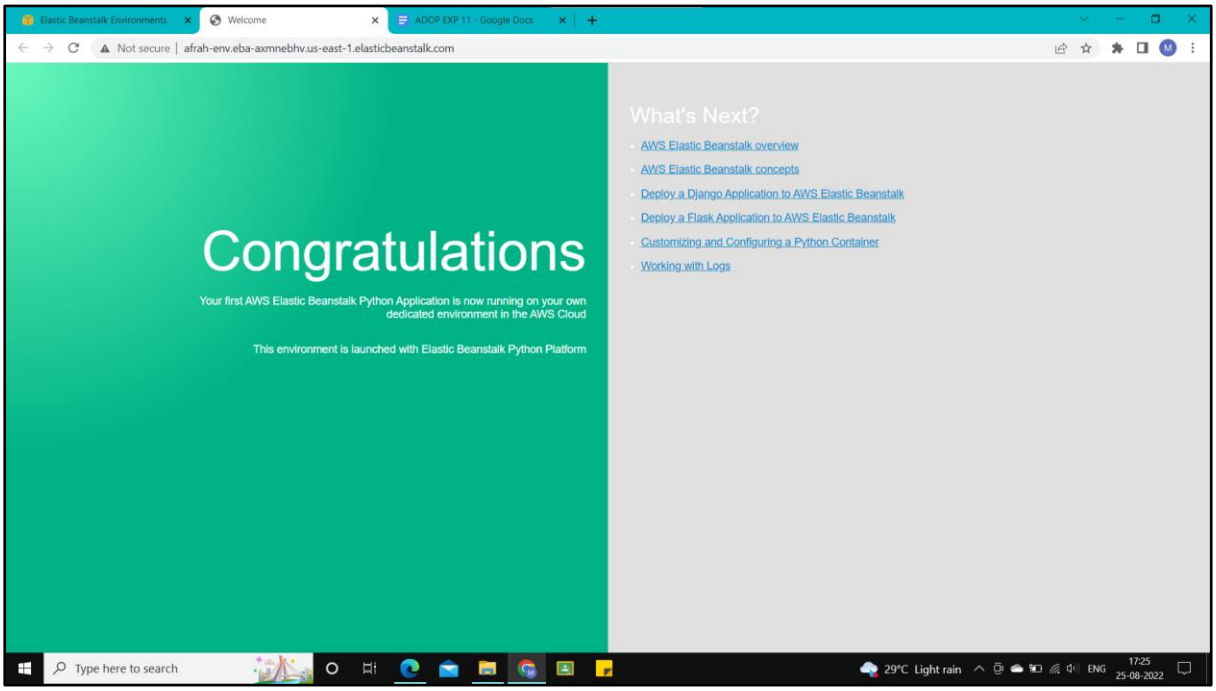
Step 6: The application (Python) has been created. The Events will be listed below



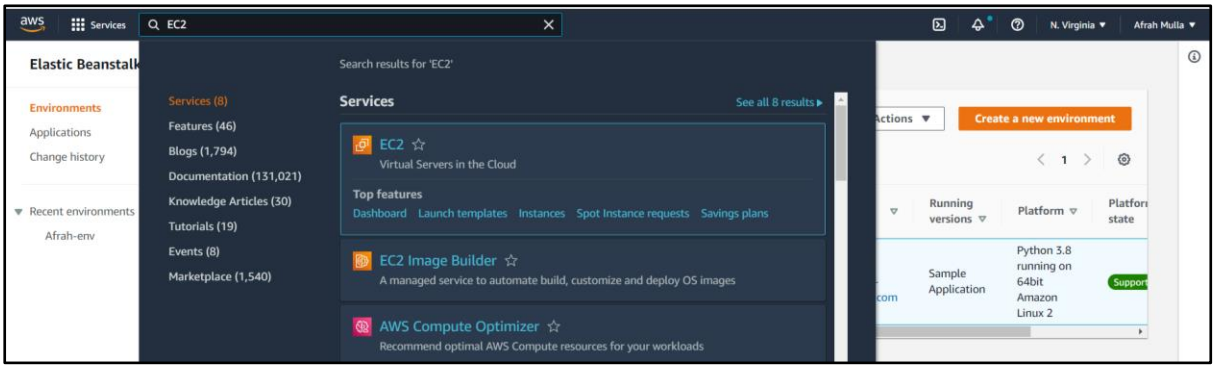
Step 7: In Environments, click on the URL of the environment created

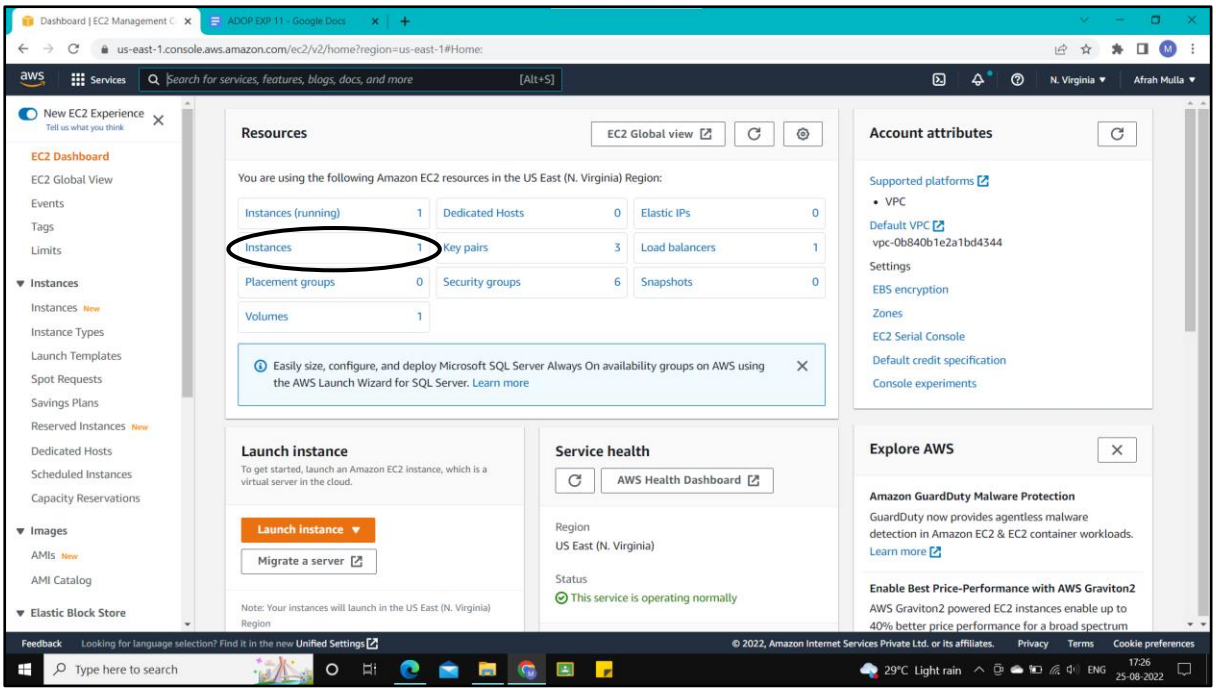


Step 8: It will redirect you to another page. Congratulations your Python application has been created

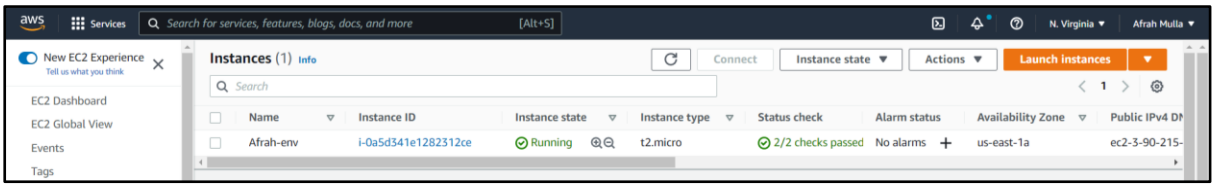


Step 9: Search for EC2 -> Select it -> Click on Instances

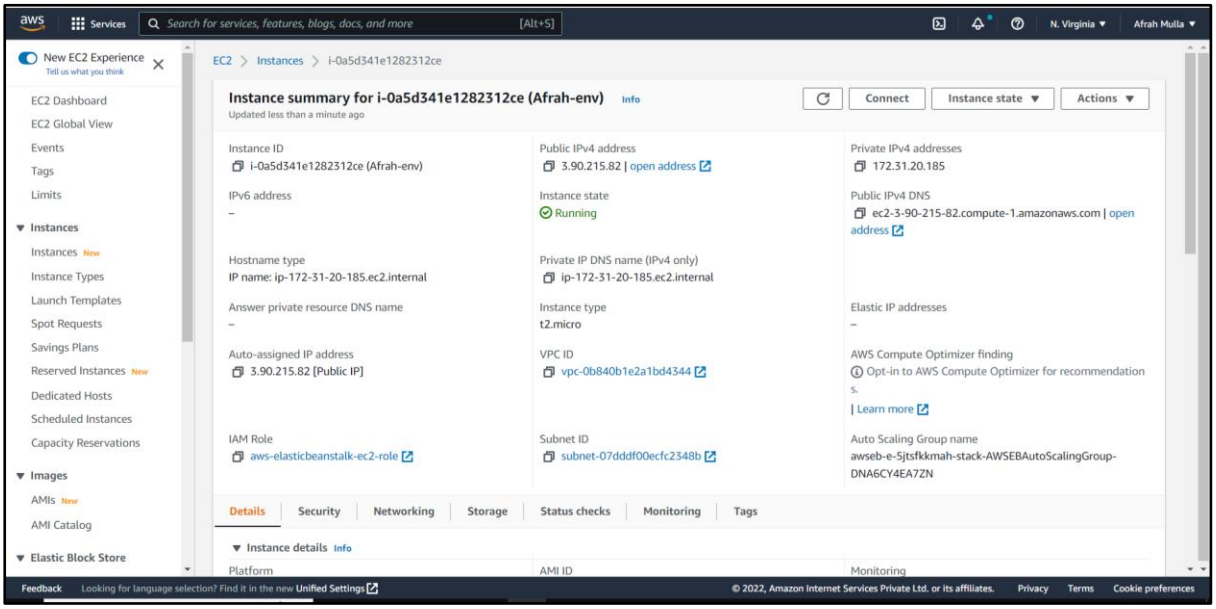


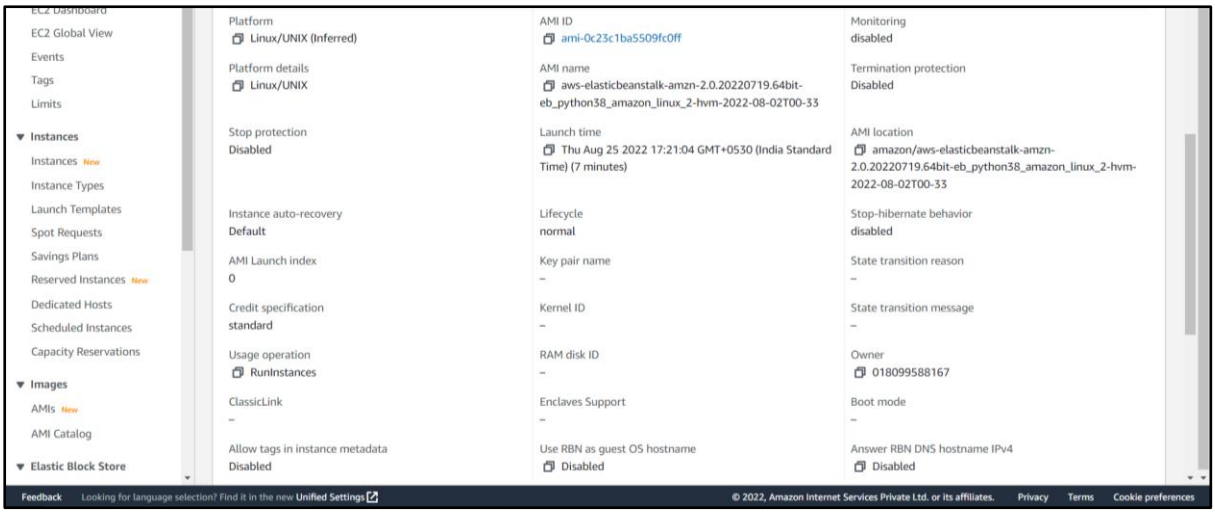


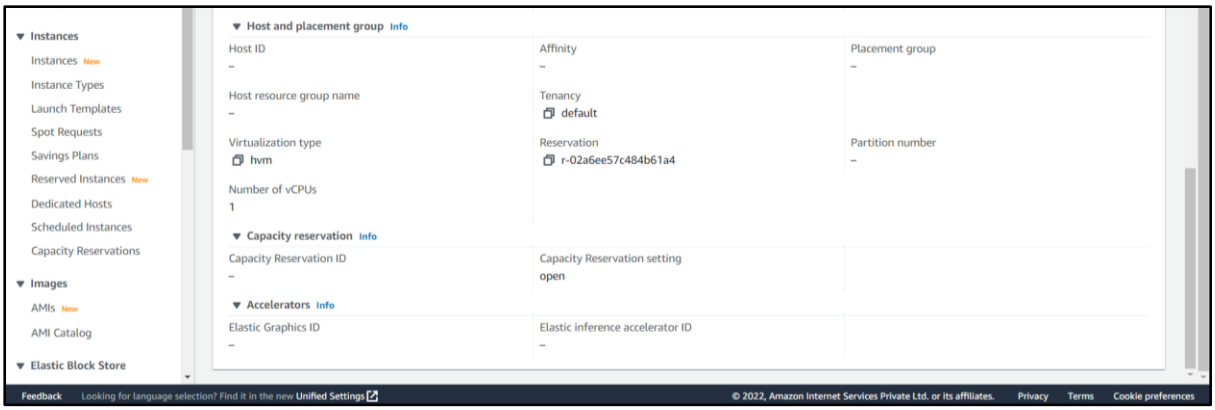
Step 10: An instance of Elastic Beanstalk will be running



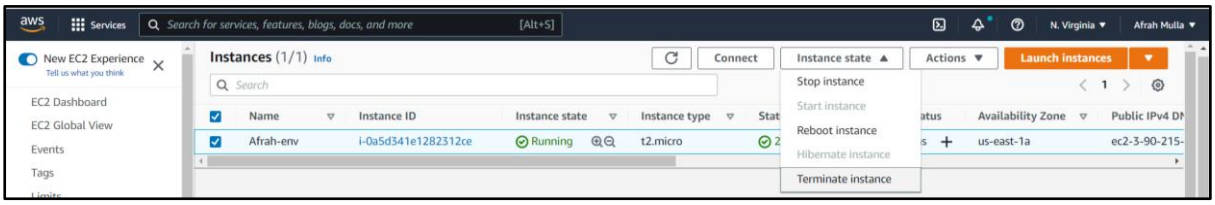
Step 11: All the details of the instance will be listed below

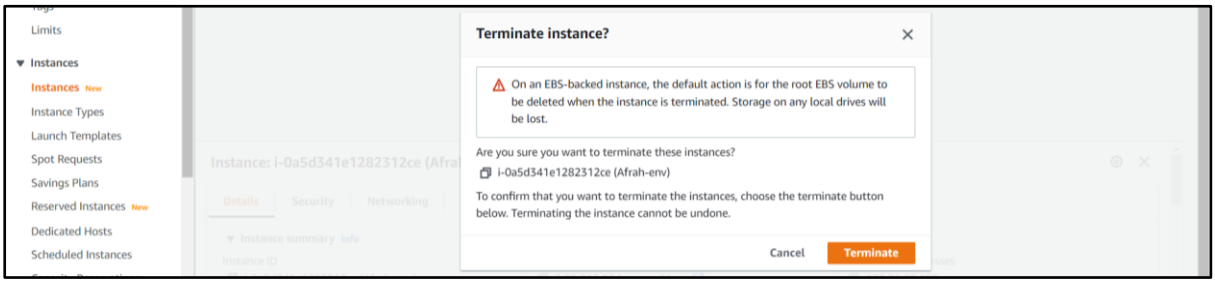


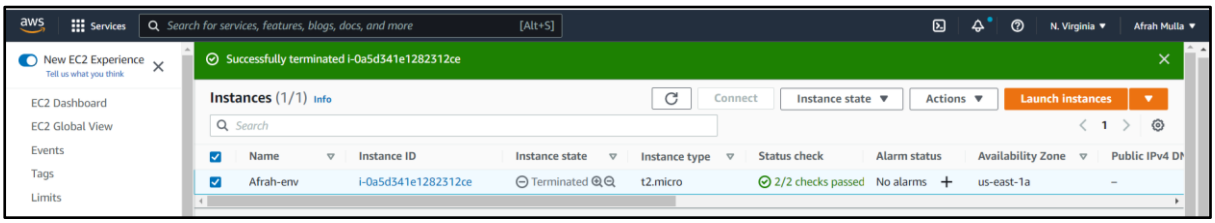




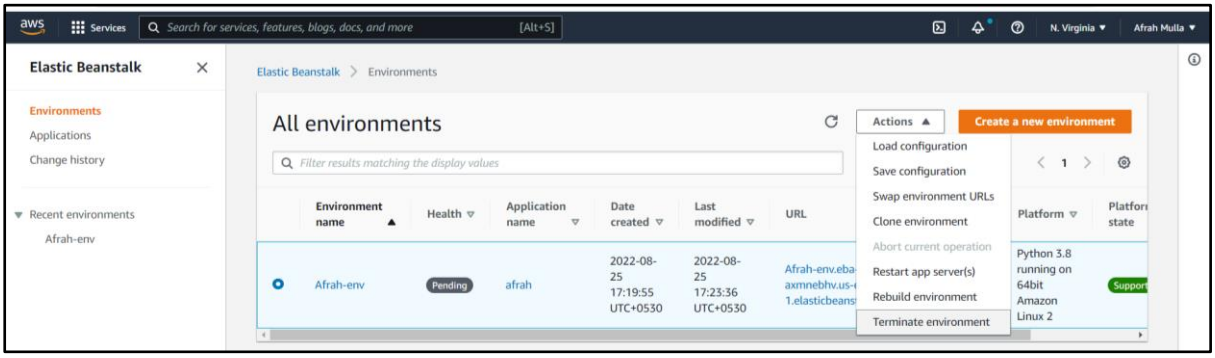
Step 12: Terminate the instance

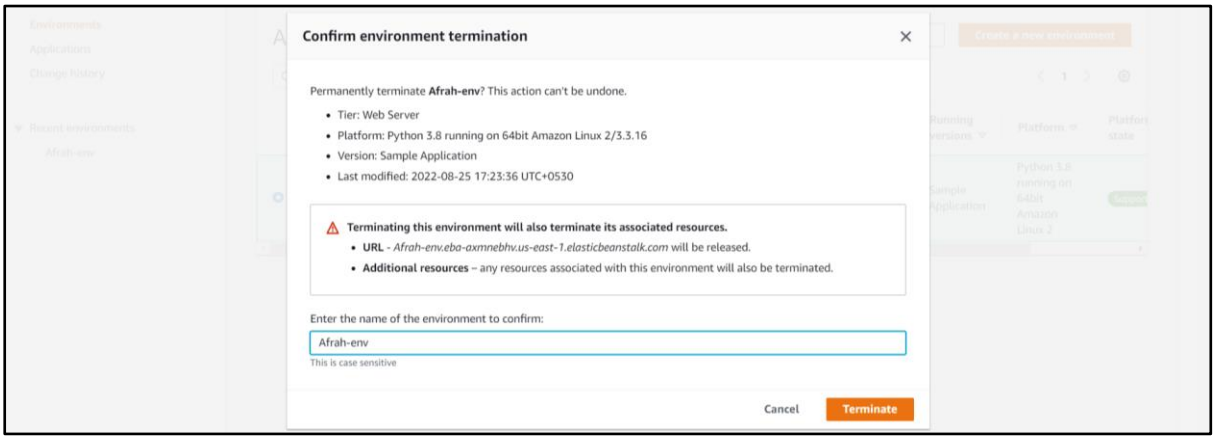






Step 13: Terminate the environment





Step 14: Delete the application