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MSC(CS) Part I

Cloud Computing Practical Assignment No 9

Working and Implementation of Platform as a service. AWS Elastic Beanstalk: Use this tool to upload sample code for web apps. (AWS handles the deployment, provisioning and load balancing)

First of all open Virtual Lab. Then click on the Start Lab button. When the circle icon to the right of the AWS link in the upper-left corner turns green, it indicates that the lab environment is ready to use this we can see in Fig 1. To launch the AWS Management Console in a new tab, select the AWS link

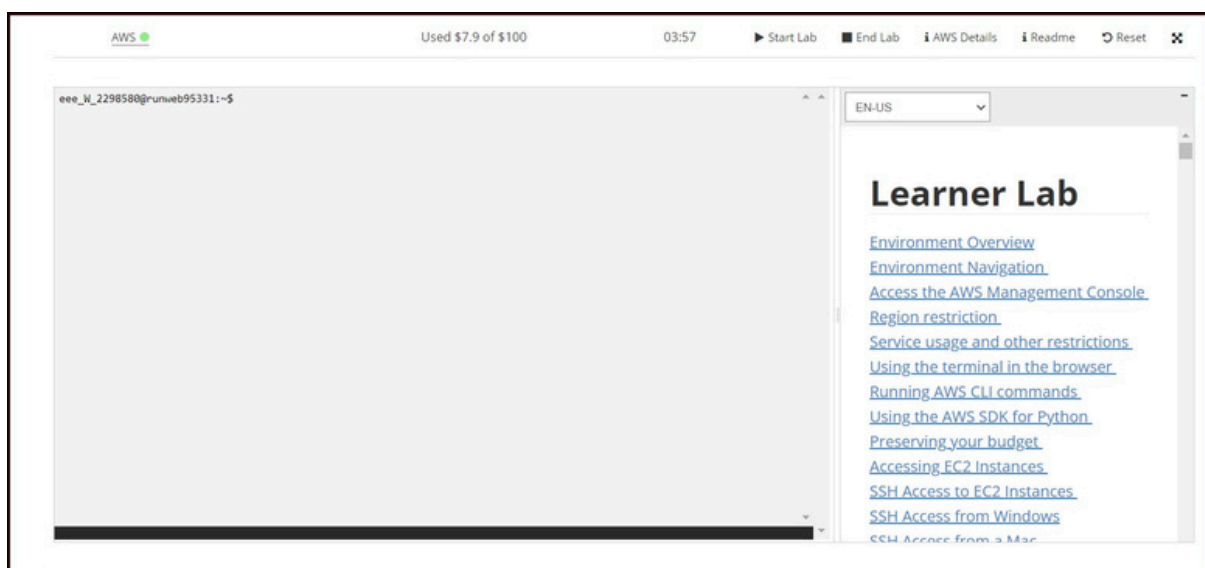


Fig 1

After clicking on "AWS" we get the console home as shown in Fig 2. Then click on "Elastic Beanstalk" service.

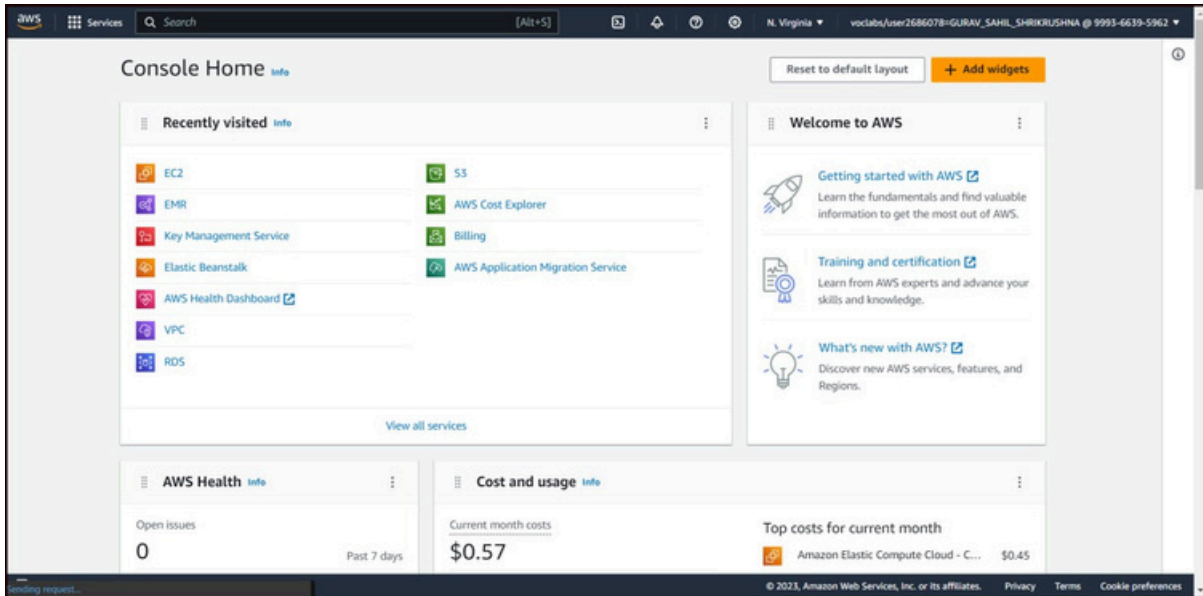


Fig 2

After clicking on “Elastic Beanstalk” we get an interface like Fig 3. Then click on “Create Application” therein.

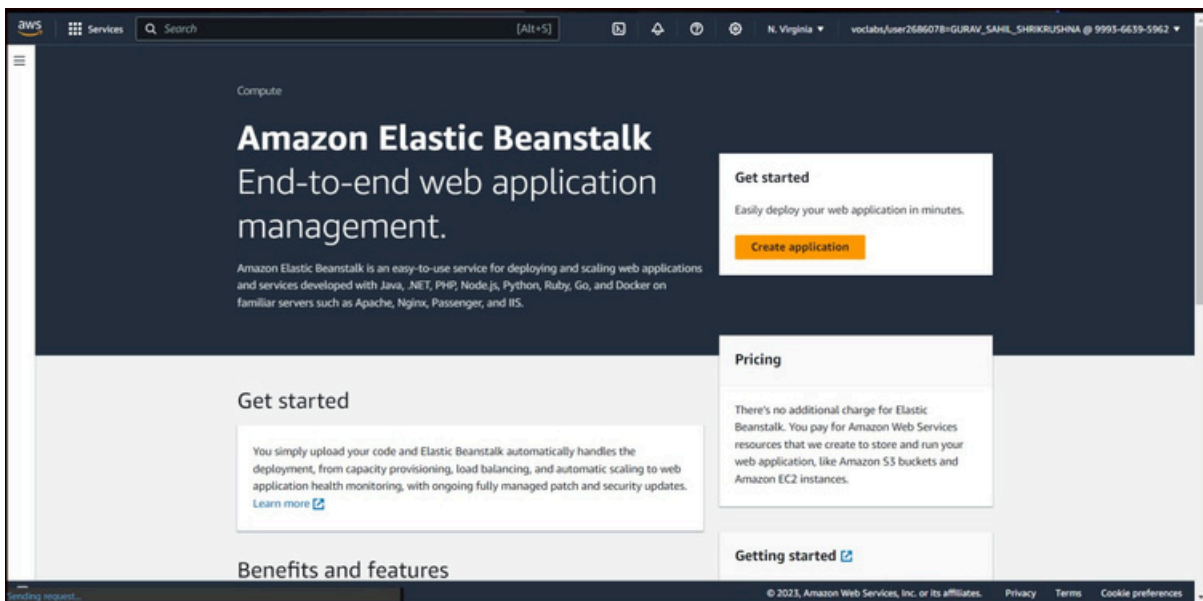


Fig 3

Select "Web Server Environment" in the configuration environment For environmental tier. Then in the application information give the name "EBS_Demo" for the application name as shown in Fig 4.

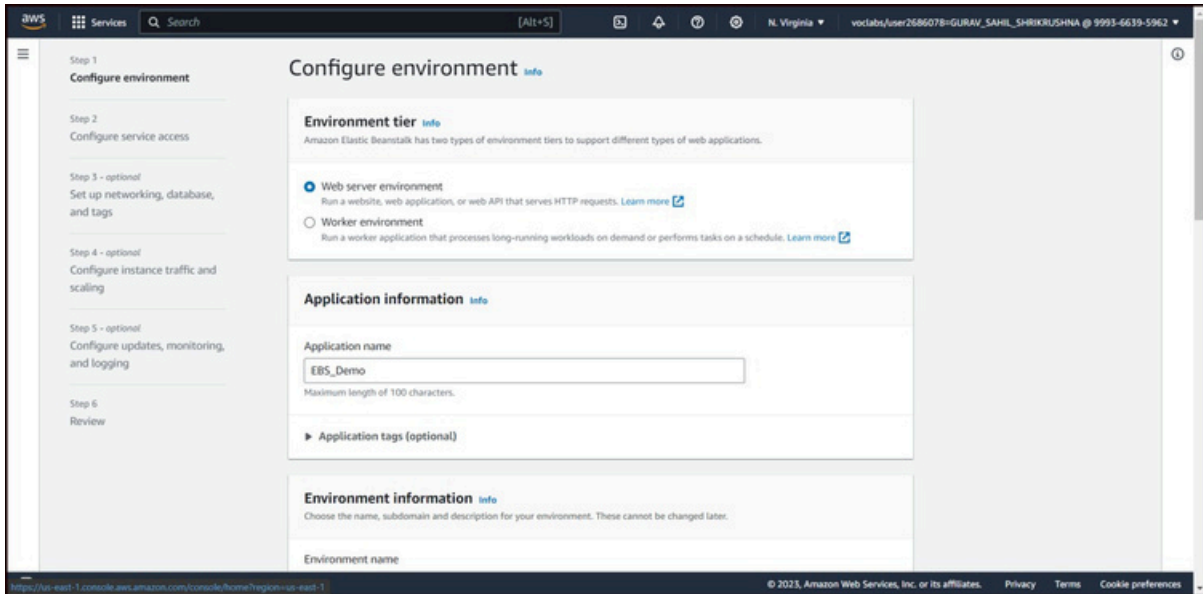


Fig 4

Keep the option in Environment Information as default as shown in Fig 5.

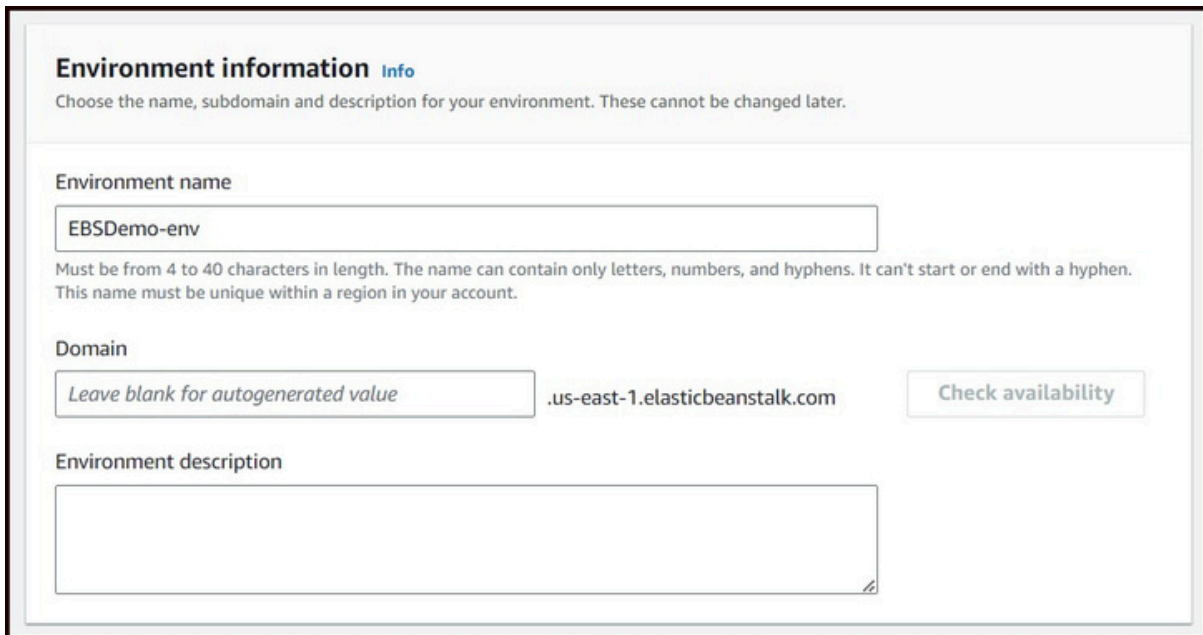


Fig 5

Inside Platform select "Managed Platform" for the platform type. For platform select "Tomcat". Others are automatically selected as shown in Fig 6.

The screenshot shows the 'Platform' configuration page. It has a title 'Platform Info' and an 'Info' link. Under 'Platform type', there are two radio buttons: 'Managed platform' (selected) and 'Custom platform'. Below this are three dropdown menus: 'Platform' (set to 'Tomcat'), 'Platform branch' (set to 'Tomcat 10 with Corretto 17 running on 64bit Amazon Linux 2023'), and 'Platform version' (set to '5.0.2 (Recommended)').

Fig 6

Select "Sample Application" for the application code. Select "Single Instance (Free Tier Eligible)" in the presets as shown in Fig 7.

The screenshot shows the 'Application code' and 'Presets' configuration page. Under 'Application code', there are three radio buttons: 'Sample application' (selected), 'Existing version', and 'Upload your code'. Below this is the 'Presets' section with a title 'Presets Info' and an 'Info' link. It contains a paragraph of text and a section 'Configuration presets' with five radio buttons: 'Single instance (free tier eligible)' (selected), 'Single instance (using spot instance)', 'High availability', 'High availability (using spot and on-demand instances)', and 'Custom configuration'. At the bottom right, there are 'Cancel' and 'Next' buttons.

Fig 7

Select "Use an existing service role" for the service role inside Service Access. Then select "LabRole" for existing service roles. Select the default "vockey" key

for the EC2 key pair. Select “LabInstanceProfile” for the EC2 instance profile and then click “Skip to review” as shown in Fig 8.

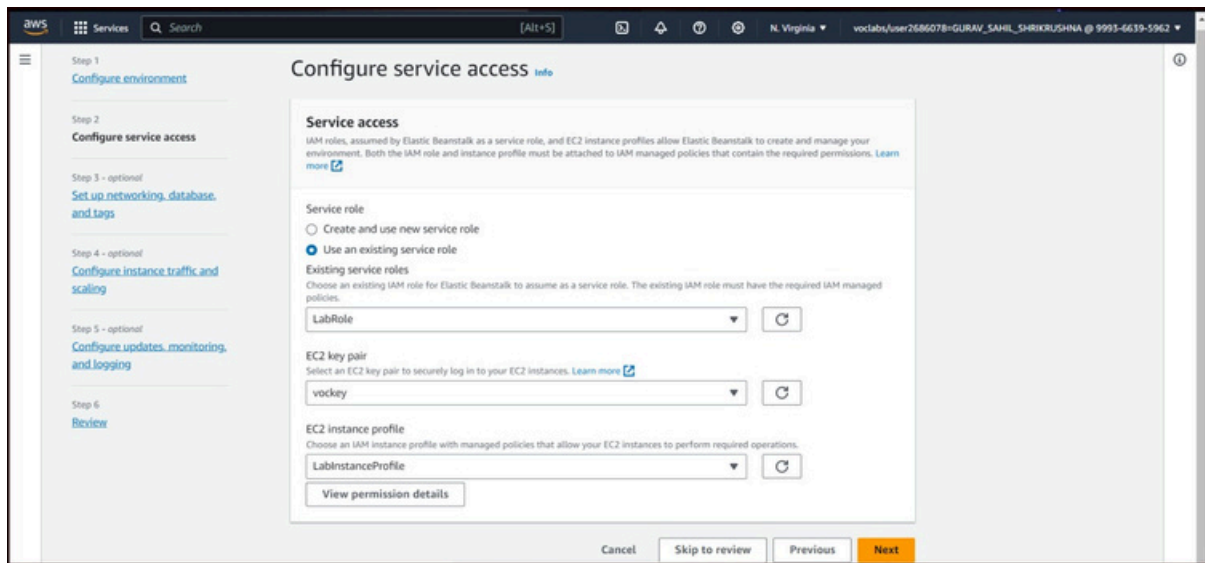


Fig 8

An review of all steps is given in Fig 9.

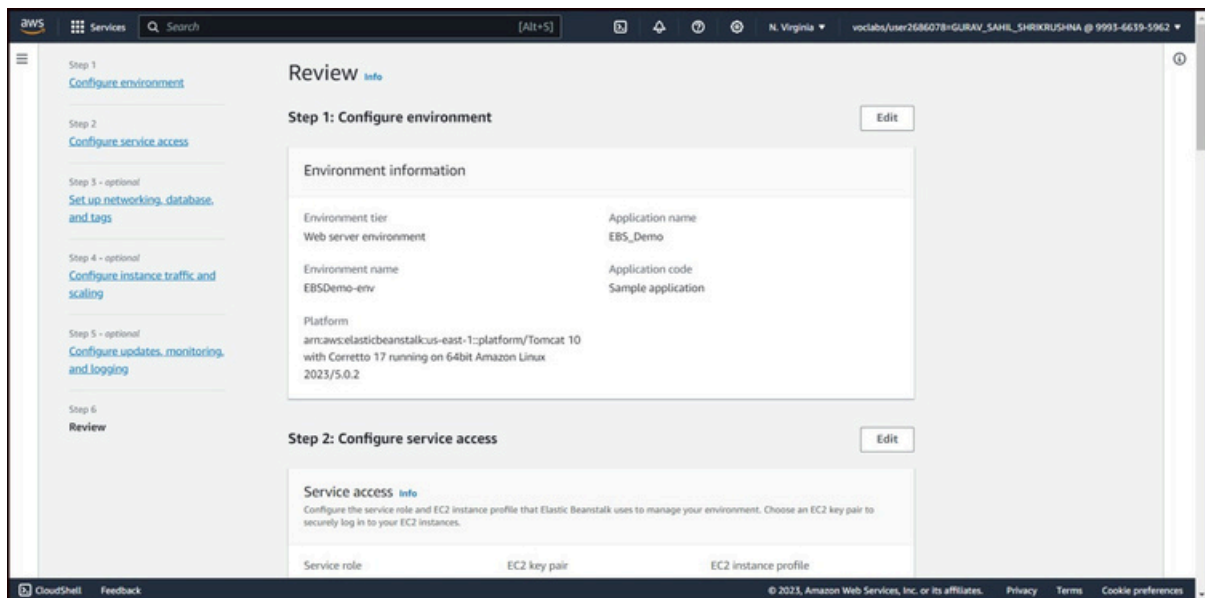


Fig 9

Scroll down the review and click "Submit" as shown in Fig 10.

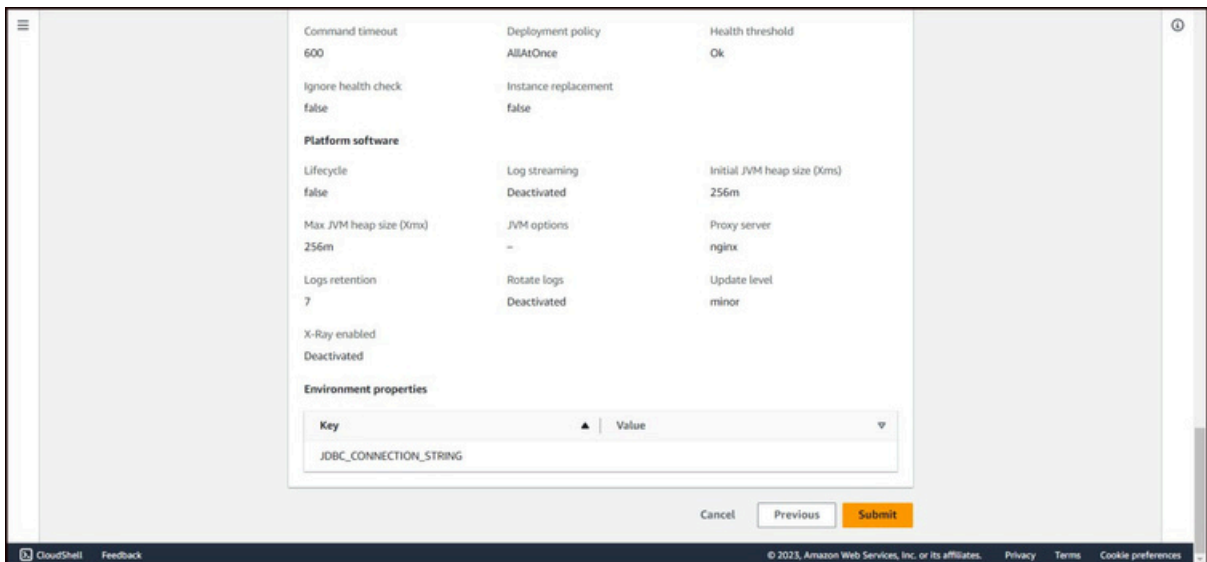


Fig 10

In Fig 11 we can see that the environment has been created successfully.

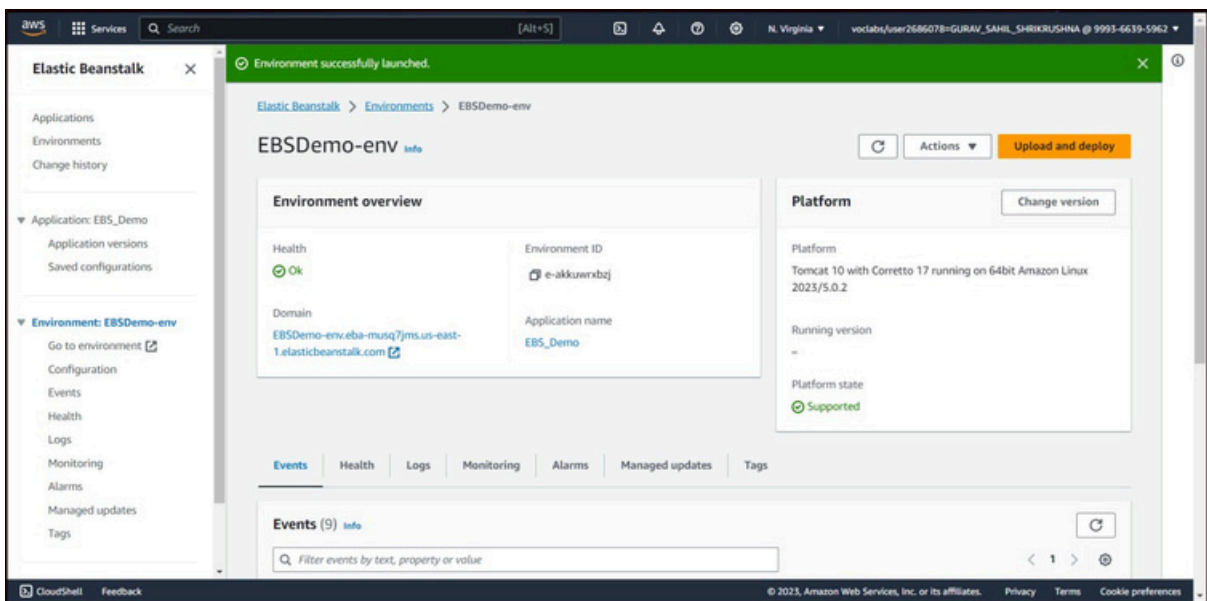


Fig 11

Copy the domain of environment observation and paste it on the new tab, we get an interface similar to Fig 12

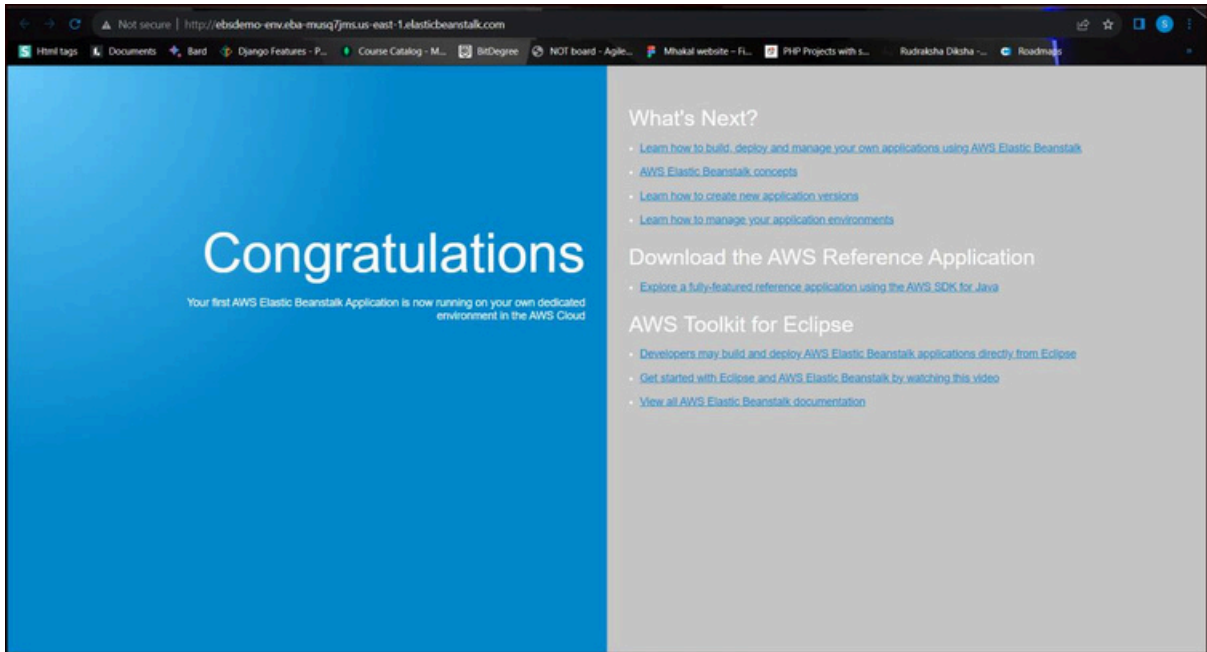


Fig 12

Then select the created application and click on “Action” and in that click on “Delete application” as shown in Fig 13.

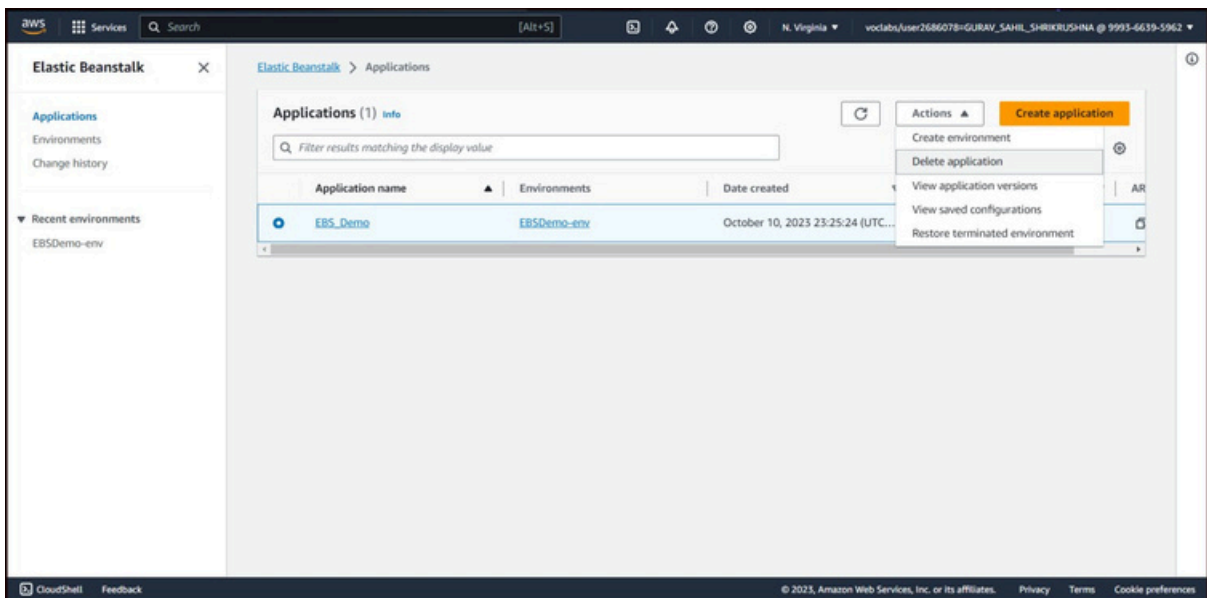


Fig 13

Enter the application name for delete confirmation and click on "Delete" as show in Fig 14.

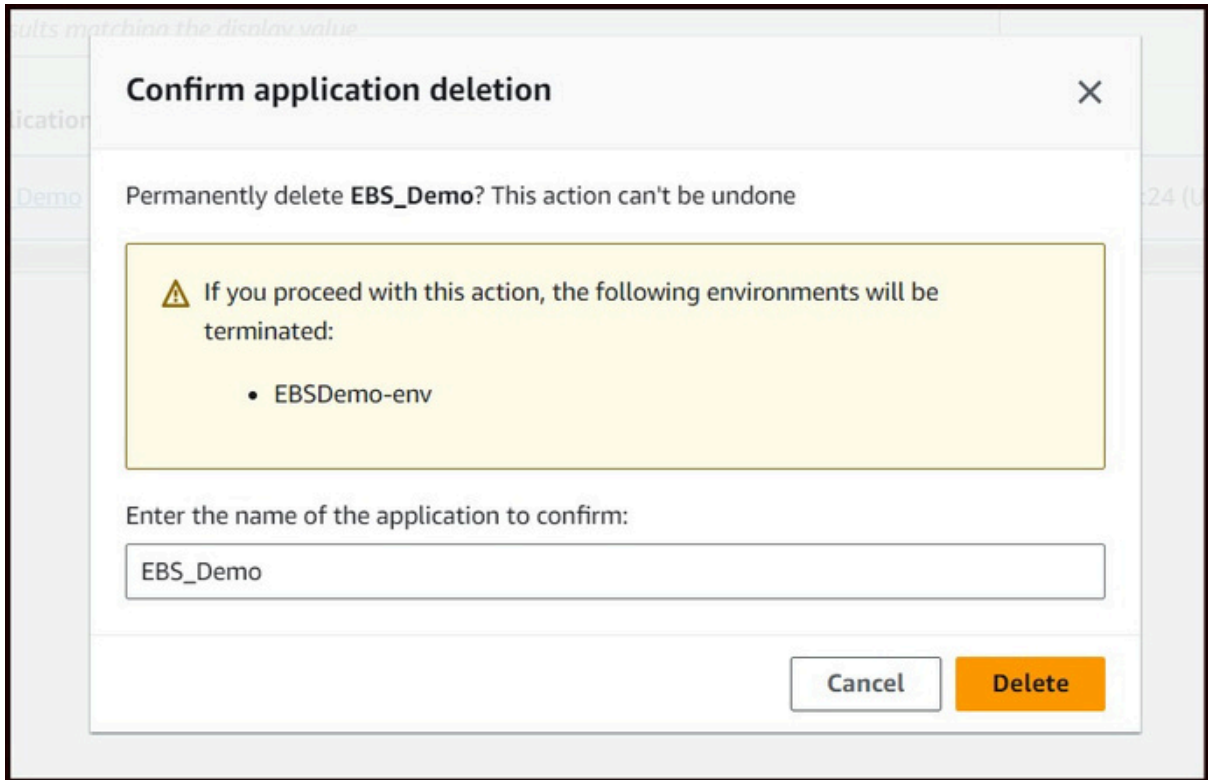


Fig 14