
Cloud Computing

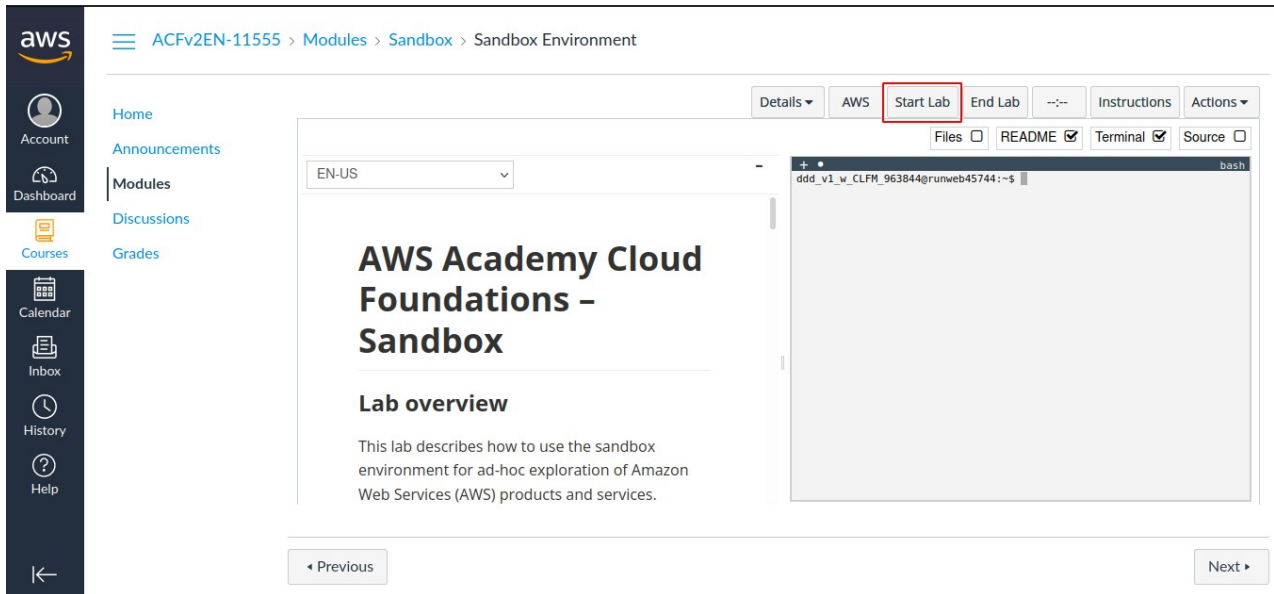
Practical Assignment No. 8 - *Working and Implementation of Platform as a service*

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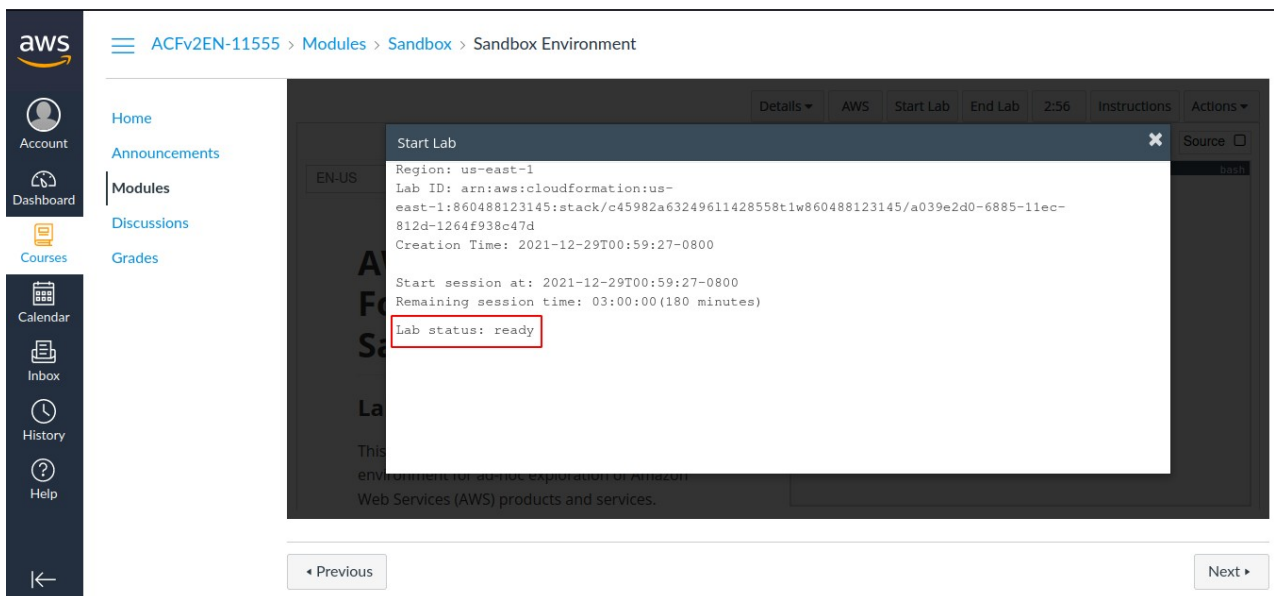
Enroll No: **2002242**

AWS Elastic Beanstalk: Use this tool to upload sample code for web apps.

Step 1: At the top right panel above the console, choose **Start Lab** to launch your lab.

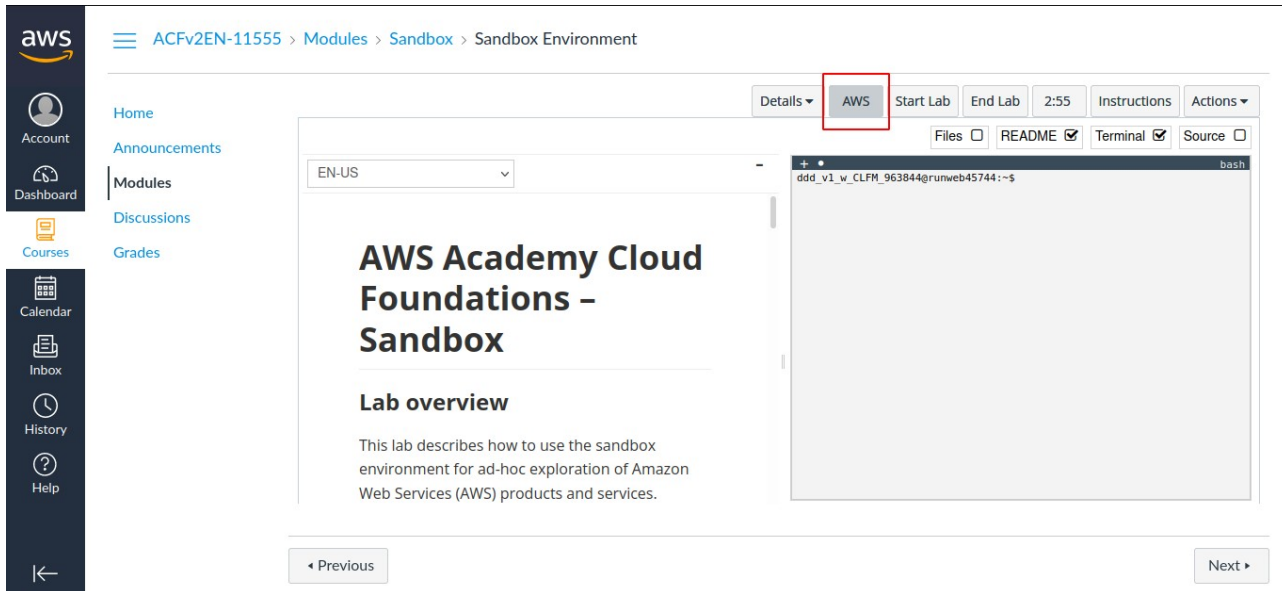


Step 2: Wait until you see the message "**Lab status: ready**", then choose the **X** to close the Start Lab panel.

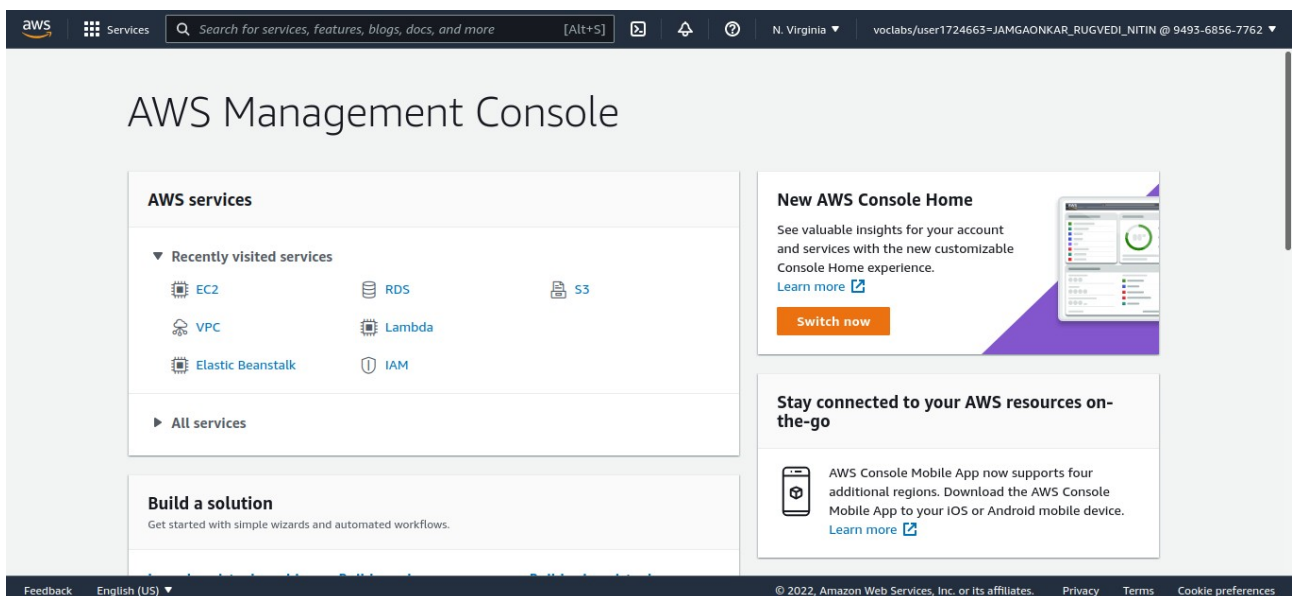


Step 3: Now choose AWS

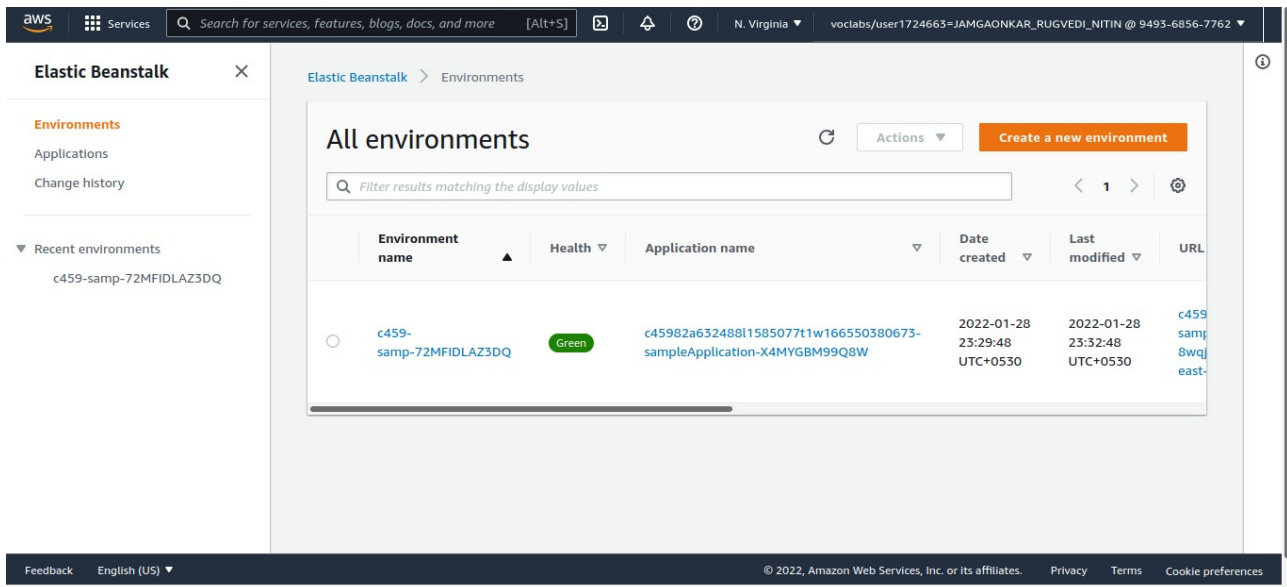
This will open the AWS Management Console in a new browser tab. The system will automatically log you in.



Step 4: In the AWS Management Console on the Services menu, choose Elastic Beanstalk..

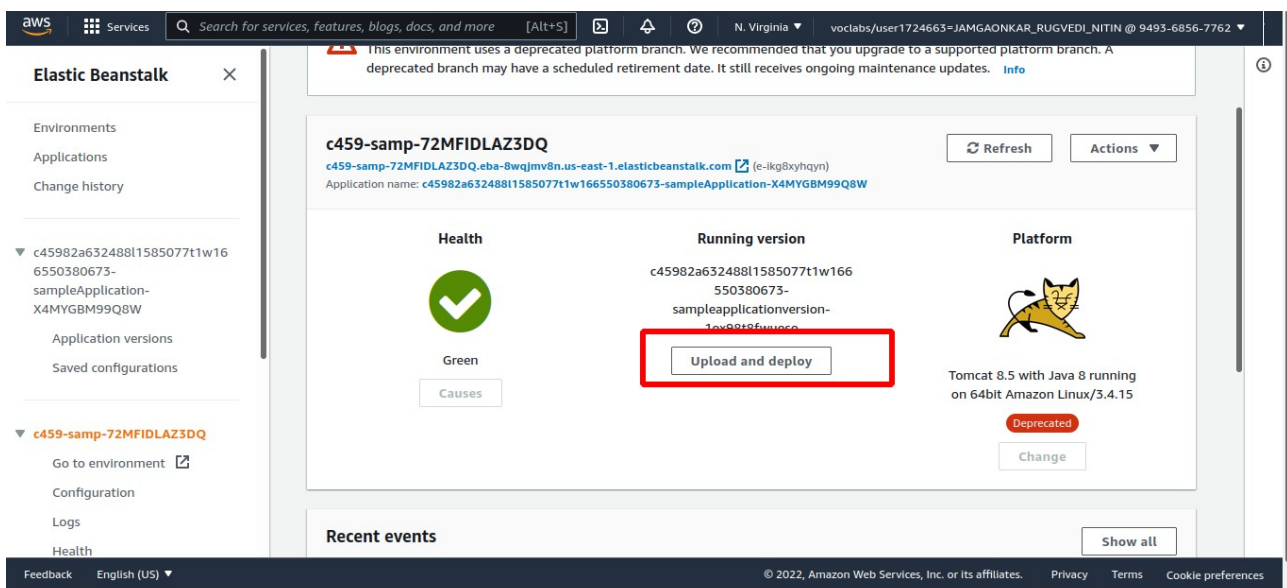


Step 5: Under the **Environment name** column, choose on the name of the environment.



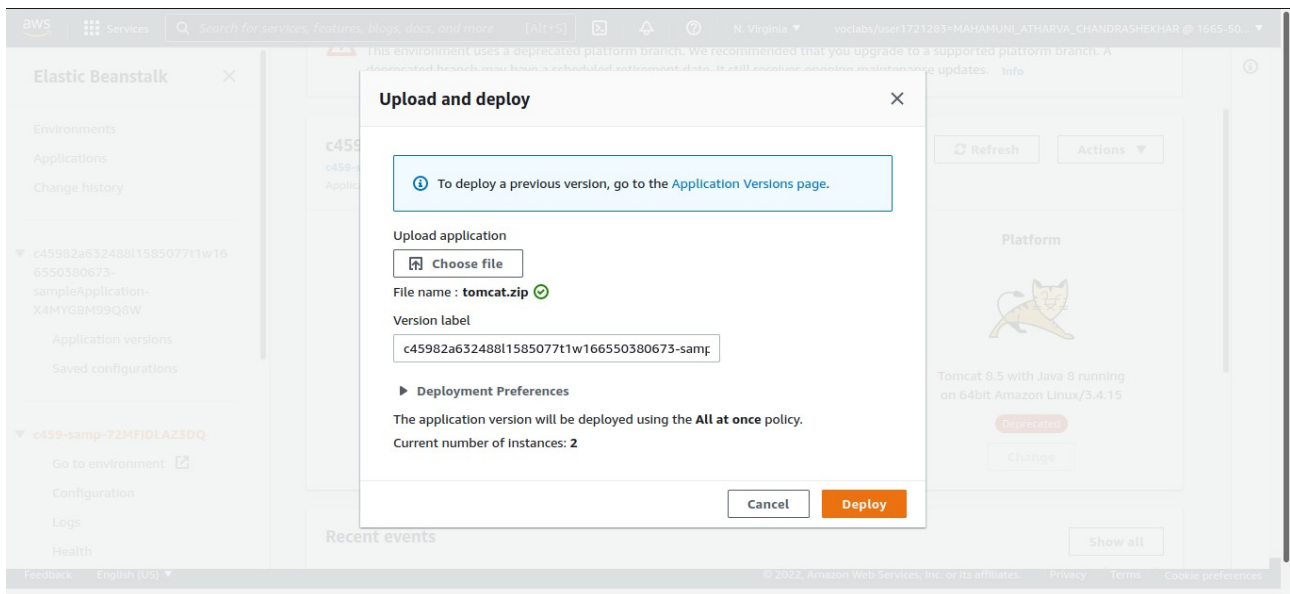
The screenshot shows the AWS Elastic Beanstalk console. On the left, there's a sidebar with 'Environments' selected. The main area is titled 'All environments'. Below the title is a search bar and a table of environments. The table has columns: Environment name, Health, Application name, Date created, Last modified, and URL. One environment is listed: c459-samp-72MFIDLAZ3DQ, with a Green health status. A red box highlights the 'c459-samp-72MFIDLAZ3DQ' link in the Environment name column.

Step 6: Deploy a sample application to Elastic Beanstalk.
In the Elastic Beanstalk Dashboard, choose **Upload and Deploy**.



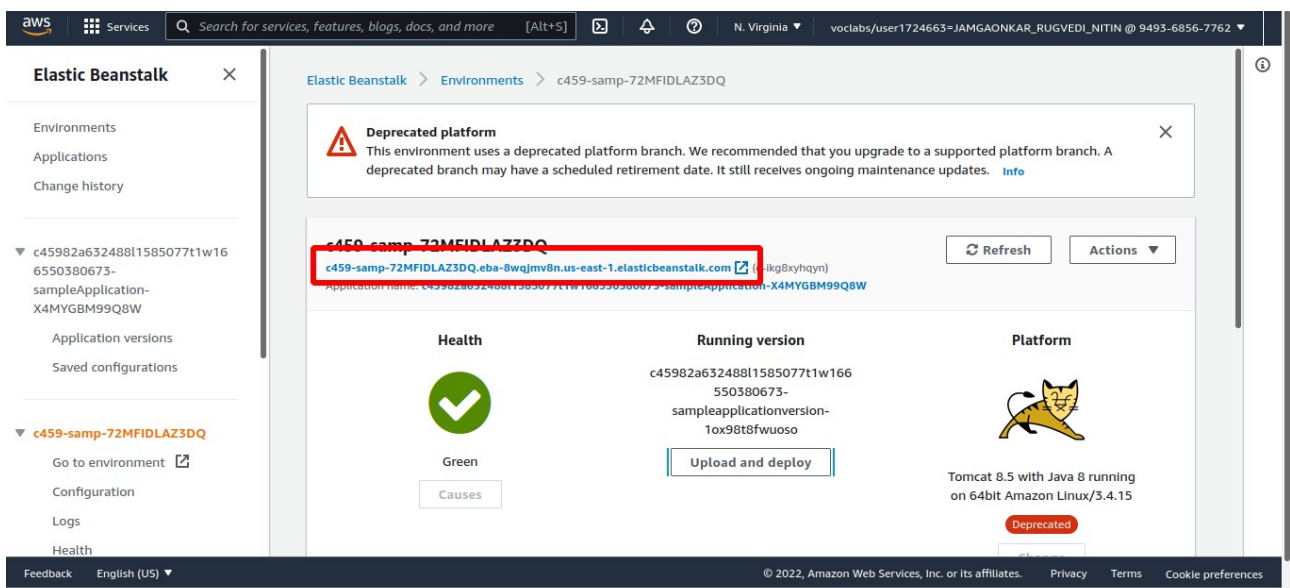
The screenshot shows the AWS Elastic Beanstalk console for a specific environment. The environment name is c459-samp-72MFIDLAZ3DQ. The 'Health' section shows a Green status. The 'Running version' section shows the application name and a red box highlights the 'Upload and deploy' button. The 'Platform' section shows Tomcat 8.5 with Java 8 running on 64bit Amazon Linux/3.4.15, marked as deprecated.

Step 7: Choose **Browse or Choose File**, then navigate to and open the **tomcat.zip** file that you just downloaded.



Choose **Deploy**.

Step 8: After the deployment is complete, choose the **URL** value near the top of the screen



The web application that you deployed displays.

Step 9: In Elastic Beanstalk console, choose **Configuration** in the left pane.

The screenshot shows the AWS Elastic Beanstalk console. In the left-hand navigation pane, the 'Configuration' option is highlighted with a red rectangle. The main content area displays the configuration for environment 'c459-samp-72MFIDLAZ3DQ'. At the top, there is a warning banner: 'Deprecated platform: This environment uses a deprecated platform branch. We recommend that you upgrade to a supported platform branch. A deprecated branch may have a scheduled retirement date. It still receives ongoing maintenance updates.' Below this, the environment details are shown: 'c459-samp-72MFIDLAZ3DQ' with a 'Refresh' button and an 'Actions' dropdown. The 'Application name' is 'c459-samp-72MFIDLAZ3DQ.eba-8wqjmv8n.us-east-1.elasticbeanstalk.com'. The 'Health' status is 'Green' with a green checkmark icon and a 'Causes' button. The 'Running version' is 'c45982a63248811585077t1w166550380673-sampleApplicationversion-1ox98t8fwuoso' with an 'Upload and deploy' button. The 'Platform' is 'Tomcat 8.5 with Java 8 running on 64bit Amazon Linux/3.4.15', marked as 'Deprecated' with a red 'Deprecated' label. The bottom of the console shows the footer with '© 2022, Amazon Web Services, Inc. or its affiliates.' and links for 'Privacy', 'Terms', and 'Cookie preferences'.

Step 10: Scroll to the bottom of the page to the **Database** row. In the **Database** row, choose **Edit**.

This screenshot shows the same Elastic Beanstalk console page as before, but scrolled down to the 'Database' row. The 'Configuration' option in the left pane remains highlighted with a red rectangle. The 'Database' row at the bottom of the configuration list has its 'Edit' button highlighted with a red rectangle. The configuration list includes: 'Rolling updates and deployments' (Batch size: 100%, Command timeout: 600, Deployment policy: All at once, Healthy threshold: Ok, Ignore health check: disabled, Rolling updates: disabled), 'Security' (EC2 key pair: --, IAM Instance profile: aws-elasticbeanstalk-ec2-role, Service role: AWSServiceRoleForElasticBeanstalk), 'Monitoring' (Health check path: blank, Health event log streaming: disabled, System: Basic), 'Managed updates' (Managed updates: disabled), 'Notifications' (Email: --), and 'Network' (This environment is not part of a VPC.). Each row has an 'Edit' button on the right. The footer is the same as in the previous screenshot.

Step 11: Explore the *AWS* resources that support your application.