

Vidyavardhini's College of Engineering and Technology Department of Artificial Intelligence & Data Science

AY: 2023-24

Class:	TE	Semester:	VI
Course Code:	CSL605	Course Name:	Skill Based Lab course : Cloud Computing

Name of Student:	Soham Ajit Dahanukar
Roll No. :	13
Experiment No.:	3
Title of the Experiment:	To study and Implement Platform as a Service using AWS Elastic Beanstalk.
Date of Performance:	
Date of Submission:	

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Performance	5	
Understanding	5	
Journal work and timely submission	10	
Total	20	

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Performance	4-5	2-3	1
Understanding	4-5	2-3	1
Journal work and timely submission	8-10	5-8	1-4

Checked by

Name of Faculty : Signature : Date :



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Experiment No. 3

Aim: To study and Implement Platform as a Service using AWS Elastic Beanstalk/ Microsoft Azure App Service

Objective: Understand the concept of PaaS and implement using Own Cloud which gives universal access to files through a web interface.

Theory:

- PaaS is a platform for programming developers and brings benefits SaaS is used for but from the software development point.
- It is the computer platform that provides the facility to use web applications quickly. With ease, without buying & maintaining web-development, PaaS has a similarity with that SaaS except that SaaS delivers software over the web.
- In contrast, PaaS provides a platform for the creating of software delivered over the web
- PaaS has a feature of a point-and-click tool that allows non-programmers to develop web applications.
- App-Engine of Google & Force.com, Windows Azure, AppFog, Openshift, and VMware Cloud Foundry are PaaS examples.
- Advantages of PaaS:
 - Scalability: of users ranges from hundreds to thousands.
 - Prebuilt Business Plan: PaaS vendors provide pre-defined business functionality for users to directly start the project.
 - Low Cost: Development via PaaS requires a computer & a good internet connection and less investment in hardware & software.
 - Instant Community: PaaS providers facilitates user providing online communities where a developer can get new ideas & share their experience & advice.
 - Simple & easy to use
- Disadvantages of PaaS are as follows:
 - Vendor Migration: Migration from one PaaS vendors' application to another PaaS vendor will create some problem.
 - Data-Privacy: The privacy of data can get hamper if it is not held within the company's boundary or organization.
 - Mix-up Complexity: Some of the applications developed may be local while others are from the cloud, which may increase the complexity.

Steps:

Step1: Login to AWS console and go to Elastic Beanstalk



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Step 2: Click on Create Application

Step 3: Write Application information: Name, Tag, Platform etc.

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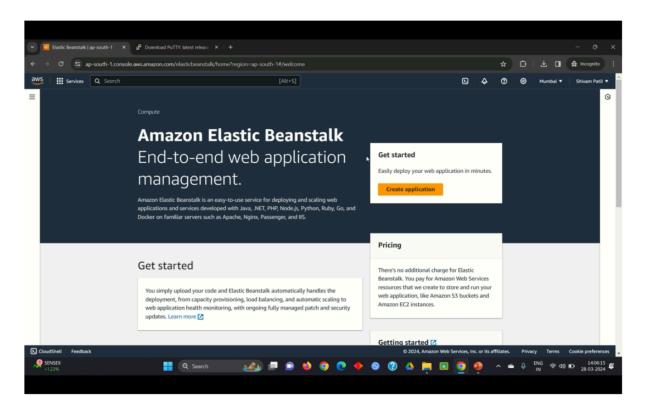
This will take a few minutes.

Step 5: Click on Environments -> Check the health of Environment wait till it becomes 'OK

Step 6: Click the URL

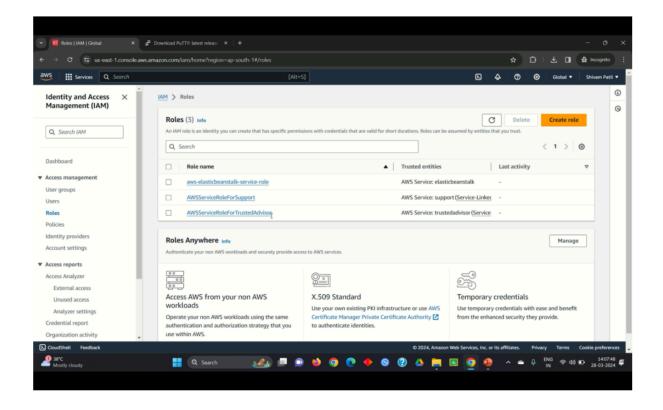
To Delete the application and Environment (Select it and in Action -Delete/Terminate : give conformation

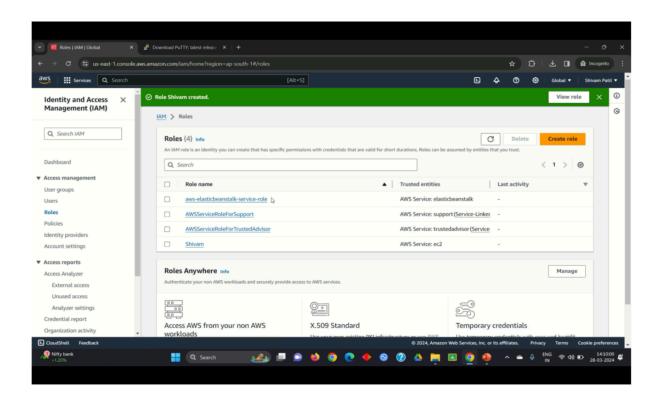
Output/Observation:





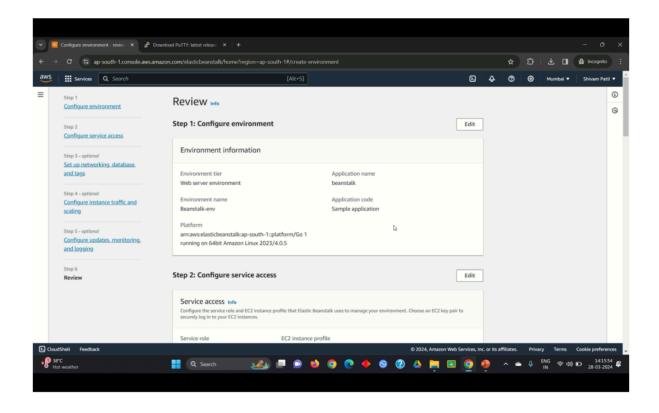
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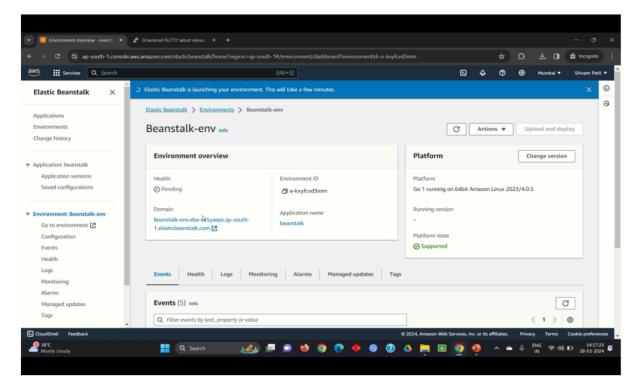






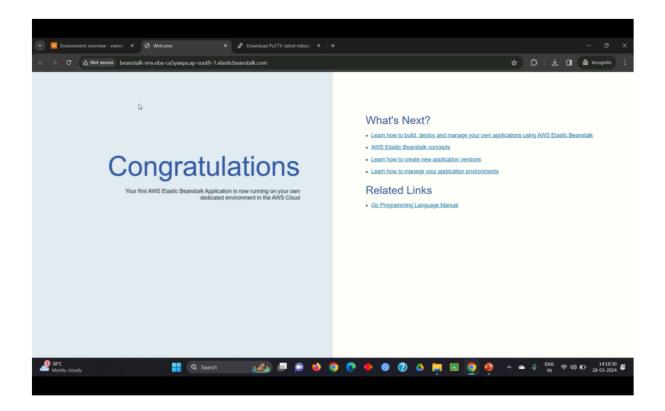
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Conclusion:

Installing Platform as a Service (PaaS) in cloud computing simplifies application development, deployment, and management by providing pre-configured environments and services. It streamlines the setup process, reducing administrative overhead and time-to-market for developers. Additionally, PaaS offerings often include scalability, reliability, and security features, enabling organizations to focus on building and delivering innovative applications without worrying about underlying infrastructure complexities.