**AY: 2023-24**

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| **Class:** |  | **Semester:** |  |
| **Course Code:** |  | **Course Name:** |  |

|  |  |
| --- | --- |
| **Name of Student:** |  |
| **Roll No. :** |  |
| **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 |  |

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| --- | --- | --- | --- |
| **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 :**

**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

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:**

**Conclusion:**

Comment on installation of  PaaS in cloud computing