|  |
| --- |
| **Name:** WASIMA QAYYUMUDDIN SHAIKH  **RollNo:**6220071  **Class:** T.E.I.T  **Sem:** V  **Subject:** ADVACE DEVOPS LAB **(Addevops**)  **EXPERIMENT NO: 08**  **1. WHAT IS AWS ELASTIC BEANSTALK.**  The Name "Elastic Beanstalk" Is A Reference To The Beanstalk That Grew All The Way Up To The Clouds In The Fairy Tale Jack And The 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.Aws Elastic Beanstalk Is A Compute Service That Makes It Easier For The Developers To Quickly Deploy And Manage Applications That You Upload To The Aws Cloud. Developers Simply Upload Their Application To The Aws Cloud, And Then Let The Aws Beanstalk Provision And Handle The Configuration For You. Your Application Will Be Provided With Capacity Provisioning, Load Balancing, Auto-Scaling, And Health Monitoring.    AWS Elastic Beanstalk is a compute service that makes it easier for the developers to quickly deploy and manage applications that you upload to the AWS cloud. Developers simply upload their application to the AWS cloud, and then let the AWS Beanstalk provision and handle the configuration for you. Your application will be provided with capacity provisioning, load balancing, auto-scaling, and health monitoring. Applications deployed in the cloud need memory, computing power and an operating system to run. Creating and administering these items can take a lot of work and maintenance. AWS Elastic beanstalk can take a lot of the setup work out of development/deployment and can save developers and companies time and hassle.  **Aws Elastic Beanstalk Benefits:**   * Easy To Start With * Autoscaling Options * Developer Productivity * Customization * Cost-Effective * Management And Updates      * **Easy To Start With**   The Fastest And Easy Way To Upload Your Application And Keep It Running Is By Uploading It To Elastic Beanstalk. You Need Not Worry About The Platform Of Your Application; You Can Create It On Your Local System And Upload It.   * **Autoscaling Options**   Beanstalk Takes Care Of Scaling Up Or Down Whenever Required. If Your Application’s Traffic Increases Or Decreases, Beanstalk Automatically Scales It Accordingly.   * **Developer Productivity**   Developers Don’t Need To Think Much About Uploading Their Application Online, They Only Have To Concentrate On Keeping Their Application More Secure And User Friendly.   * **Customization**   Aws Elastic Beanstalk Allows You To Select The Configuration Of Your Aws Services That You Have Used With Your Application. For Example, Consider Amazon Ec2, You Can Change The Instance Type Which Is Optimal For Your Application. Also, If You Want To Take Control Of Some Services Manually, You Can Change The Settings According To It.   * **Cost-Effective**   There Is No Cost Involved In Creating A Beanstalk Environment. When There Is A Need For Making It Into The Production Of The Application, Then You Can Create Your Application Bigger.   * **Management And Updates**   You Don’t Need To Worry About Updating Your Application According To The Change In The Platform. The Software Patches, Platform Updates, And Infrastructure Management Are Taken Care Of By The Aws Professionals.  **2. Who Should Use Aws Elastic Beanstalk?**  Amazon AWS Elastic Beanstalk is most often used by companies with 10-50 employees and 1M-10M dollars in revenue. Our data for Amazon AWS Elastic Beanstalk usage goes back as far as 5 years and 6 months.Applications deployed in the cloud need memory, computing power and an operating system to run. Creating and administering these items can take a lot of work and maintenance. AWS Elastic beanstalk can take a lot of the setup work out of development/deployment and can save developers and companies time and hassle.Many Developers Want To Avoid The Hassle Of Dealing With Deep Background Details Of The Infrastructure. Elastic Beanstalk Provides A Simple Environment In Which They Can Develop And Deploy Their Applications While Letting Beanstalk Handles A Lot Of The Nitty Gritty Details.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.**   1. Login To Your Aws Console 🡪 After That Search “Amazon Elastic Beanstalk” 🡪Click On Create Application.      1. After Clicking On Create Application Give Your Application Information 🡪Then In Tag Section Don’t Change Anything 🡪Give Your Platform (Here I Am Using Go Platform You Can Use Other Platform)        1. After That It Will Take 10-15 Minutes To Create Your Environment        1. After Successfully Creating Environment, This Window Will Display      1. Now Copy Below Url And Paste It On Your Browser Or You Directly Click On The Url Link. 2. Now Your Ec2 Instance Is Already Created For Viewing 🡪Go   To Ec2🡪Instance   1. For Termination Click On Action🡪Delete Application |