

# Lab 8

## 1)Release Management:

Process of planning, scheduling, and controlling software releases to ensure smooth deployment, with a focus on quality, stability, and minimizing disruptions.

## 2)CI/CD/DevOps:

CI (Continuous Integration) is the practice of regularly merging code changes into a shared repository, while CD (Continuous Delivery/Deployment) automates the release process. DevOps is a culture and set of practices that integrates development and IT operations to streamline software delivery.

## 3)Basic steps to deploy an app to Heroku:

- a. Create a Heroku account.
- b. Install the Heroku CLI.
- c. Use the CLI to log in to your Heroku account.
- d. Navigate to your app's directory.
- e. Create a Git repository if not already done.
- f. Deploy your app to Heroku using the "git push heroku master" command.
- g. Access your app via a generated Heroku URL.

## 4)AWS Elastic Beanstalk:

A Platform as a Service (PaaS) offered by Amazon Web Services (AWS) that simplifies the deployment and management of web applications. It abstracts infrastructure management and allows developers to focus on coding.

## 5)Elastic Beanstalk vs. EC2:

Elastic Beanstalk is a PaaS platform, while EC2 is an IaaS service.

Elastic Beanstalk abstracts infrastructure management, while EC2 requires manual configuration.

Elastic Beanstalk is easier for deploying web applications, whereas EC2 offers more control over the infrastructure.

Elastic Beanstalk handles load balancing and scaling, while EC2 requires manual setup for these features.