

Department of Information Technology, FAMT Ratnagiri

ASSIGNMENT-I

BE(IT), Sem-VIII(CBCGS) Sub.- DevOps Lab ITL803

Name: Karj Jawwad A Rahim R. No: 28

- 1) What is Jenkins? How does the Jenkins helps for faster Software development?
- 2) List the DevOps open source tools along with their benefits.
- 3) What is the Docker technology and what are its Benefits?

Module Level		LO
M1	U	LO1
M3	U	LO4

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Q.1

what is Jenkins? How does the jenkins helps for faster software development?

→ Jenkins is an automation tool written in Java with plugins built for continuous integration purpose. Jenkins is used to build and test your software projects continuously and making it easier for developers to integrate changes to the project, and making it easier for users to obtain a fresh build. It also allows you to continuously deliver your software by integrating with a large number of testing and deployment technologies.

With Jenkins organizations, can accelerate the software development process through automation. Jenkins integrate development lifecycle process of all type, including build document, test, package, stage, deploy, static analysis and much more.

Advantages -

- 1) It is an open source tool with greater community support.
- 2) It is easy to install.
- 3) It has 1000+ plugins to ease your work.
- 4) It is free of cost.
- 5) It is built with Java and hence, it is portable to all the major platforms.

Q.2

List the devops opensource tool along with their benefits.

→ Chef - It makes possible to manage both traditional and cloud environments.

- 2) Ansible - It automates various common tasks related to IT operations such as application deployment.
- 3) Puppet - It automates deployment to boost auditability, reliability and agility.
- 4) Docker - Docker engine is a tool responsible for creation and running of Docker containers.
- 5) Git - It is one of the popular version control system.

Q.3 What is Docker technology? and what are its Benefits?

Docker is an open-source technology for developing, shipping and running applications. With it you can isolate applications from their underlying infrastructure so that software delivery is faster than ever. Docker's main benefit is to package applications in "Container", so they're portable for any system running the Linux Operating System (OS) or windows OS.

Benefits -

- 1) They contains virtual machines.
- 2) It takes up less space
- 3) It can run on top on single app instance.
- 4) It keeps apps isolated.