

DevOps Internship



TASK 2: Create a Simple Jenkins Pipeline for CI/CD

- Objective: Set up a basic Jenkins pipeline to automate the process of building and deploying an application.
- Tools: Jenkins, Docker
- Deliverables: A Jenkins pipeline file (Jenkinfile) to build and deploy an app.
- Hints:
 - a. Install Jenkins (or use a cloud instance).
 - b. Create a Jenkinsfile in your project repo with steps to build and deploy the app.
 - c. Configure Jenkins to trigger the pipeline on each code commit.
 - d. Add stages like build, test, and deploy.
 - e. Test the pipeline by pushing changes and checking the Jenkins dashboard.
- Outcome: You'll learn how to automate the deployment process with Jenkins in a DevOps pipeline.

Interview Questions:

- 1. What is Jenkins, and how is it used in CI/CD?
- 2. What is a Jenkinfile?
- 3. How do you create and configure Jenkins pipelines?
- 4. What are some common stages in a Jenkins pipeline?
- 5. What is the difference between a declarative and scripted Jenkins pipeline?

★ Task Submission Guidelines

• Time Window:

You can complete the task anytime between 10:00 AM to 10:00 PM on the given day. Submission link closes at 10:00 PM

• Self-Research Allowed:

You are free to explore, Google, or refer to tutorials to understand concepts and complete the task effectively.

• X Debug Yourself:

Try to resolve all errors by yourself. This helps you learn problem-solving and ensures you don't face the same issues in future tasks.

• No Paid Tools:

If the task involves any paid software/tools, do not purchase anything. Just learn the process or find free alternatives.

• 🛅 GitHub Submission:

Create a new GitHub repository for each task.

Add everything you used for the task - code, datasets, screenshots (if any), and a short README.md explaining what you did.

L Submit Here:

After completing the task, paste your GitHub repo link and submit it using the link below:

• **[Submission Link]**



