Introducing my exhilarating DevOps Continuous Integration and Continuous Deployment (CICD) pipeline project!

This hands-on venture aimed to explore the cutting-edge tools and technologies that drive modern software development and delivery.

The project's prerequisites:

Git for version control,

Jenkins to automate and integrate the CICD pipeline

The Ant build tool was essential for compiling and packaging the application, and

several key plugins, such as GitHub Plugin, Ant Plugin, Warning Next Generation Plugin, JUnit Plugin, and Build Pipeline, facilitated seamless integration and automation.

The project consisted of four vital jobs in the pipeline:

1️⃣ GitHub\_pull: This job handled seamless source code pull from remote repositories, forming the foundation of the CICD process.

2️⃣ build\_and\_code\_review: This job focused on building the project and conducting comprehensive code reviews, ensuring a robust codebase for further testing.

3️⃣ unit\_test: Crucial for executing unit tests on the Java application, it ensured its functionality and reliability.

4️⃣ deploy: The final stage deployed the application. Though an initial setback occurred due to a missing container configuration, I quickly rectified the issue and mastered deploying applications on containers.

Despite encountering challenges, such as Jenkins-Tomcat configuration incompatibility during deployment, each obstacle was a valuable learning experience. These hurdles honed my problem-solving skills and prepared me for future projects.

I am delighted to announce that the project's aim to understand the end-to-end CICD process and successfully deploy an application was achieved resoundingly.

Moving forward, I am eager to apply the knowledge gained to more ambitious ventures

#DevOps #CICD #ContinuousIntegration #ContinuousDeployment #Jenkins #GitHub #Ant #JUnit #Automation #SoftwareDevelopment #Containerization #ProblemSolving #LearningJourney