# E-Learning Platform with Auto Evaluation

Title: Day 9 – DevOps - CI/CD with test execution.

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## Introduction

Day 9 focused on implementing DevOps practices to enable continuous integration and continuous deployment (CI/CD) for the E-Learning Platform with Auto Evaluation.

## Activities Done

- Created Git repository and pushed the project code.  
- Configured Jenkins pipeline to automatically build, test, and package the application.  
- Set up automated test execution for all unit and integration tests.  
- Deployed the packaged JAR to a Linux virtual machine as part of the pipeline.

## Improvements Achieved

The automated build and deployment pipeline ensures that every code change is verified and deployed quickly, reducing manual intervention and errors.

## Issues & Fixes

Encountered permission errors during deployment to the Linux VM, which were resolved by adjusting user permissions and using SSH keys for secure, automated access.

## Conclusion

Day 9 successfully established a CI/CD pipeline with automated test execution and deployment, significantly improving development workflow and reliability.