

THE BENEFITS OF CI/CD IN UDAPEOPLE PROJECT

PRINCE ARTHUR



Continuous Integration (CI)

Continuous integration (CI) is the practice of merging all developers' working copies to a shared mainline several times a day.

Some examples of CI-related phases include:


- Dependency vulnerability testing
- Static Analysis
- Store artifact
- Unit Test
- Compile



Continuous Deployment

Continuous deployment (CD) is the engineering approach in which the value is delivered through frequently automated deployments. It's the process of "Moving" the artifact to production without human intervention. Some CD-related phases might include:

- Creating and configuring infrastructure
- Rollbacks in case of any failure
- Promoting to production
- Smoke Testing



Benefits of CI/CD at the Business Level

- Detect Security Vulnerabilities: Will help to avoid cost by preventing costly security Vulnerabilities.
- Deploy to Production Without Manual Checks: Will increase revenue by making features take less time to be deployed and introduced to market.
- Automate Infrastructure Creation: Will help to avoid cost by providing less human error, which means faster deployments
- Automated Smoke Tests: Protecting revenue by reducing downtime from a a crash or a major bug.
- More Frequent Production Deployments: Increasing revenue by releasing new value-generating features more quickly