

Value of CI/CD TO Udapeople



Introduction

- Continuous Integration (CI) :
- The practice of merging all developers' working copies to a shared mainline several times a day.
- CI saves developers enormous time which they will use to complete other works – this saves cost for the organization.
- Continuous Delivery (CD):
- An engineering practice in which teams produce and release value in short cycles. It will help us deliver new features to customers daily instead of them waiting months for features they requested.

CI/CD Value Framework for Udapeople

- Catch compile error after merger : this will reduce cost for our business because developer will spend less time on new code.
- Catching unit test failure : this will help us avoid cost because less bugs in production and less time in testing.
- Detect security vulnerabilities : this will help us avoid cost that will arise from costly and embarrassing security holes.
- Automate infrastructure deployment: this will help us avoid cost because there will be less human errors and faster deployment.

CI/CD Value Framework for Udapeople

- Automate infrastructure clean up : this will help us reduce cost by dynamically freeing resources that are not in use.
- Faster and more frequent deployment: this will help us increase revenue because value generating features are released more quickly.
- Deploy to production without manual checks: this will increase our revenue because we spend less time to push updates to users.
- Automated security test: protect revenue because reduced down time from deploy crash and bugs.
- Automated rollback to working state: help us protect revenue because we could easily roll back to the initial working state.

Conclusion

- Based on the CI/CD value framework, CI/CD will help us reduce infrastructure cost, increase our revenue, increase the security of platform, protect revenues and increase our revenue.