

Fundamentals and Benefits of Implementing CI/CD at UdaPeople

How UdaPeople Can Save Costs, Improve Revenue & Reduce Time to Market for New Features

How Would CI/CD Benefit UdaPeople?

- Continuous Integration and Continuous Deployment (CI/CD) are part of a software development paradigm that seeks to “improve velocity, productivity, and sustainability of software development teams.”
- Essentially, CI/CD provides opportunities for UdaPeople to:
 - Reduce Cost
 - Avoid Cost
 - Increase Revenue
 - Protect Revenue



Continuous Integration (CI): How Technical Benefits Translate to Business Benefits

- Catching compile errors after a code merge in our source repository would **reduce business costs**, as developers will spend less time fixing issues from new code.
- Catching unit test failures would allow for **cost avoidance** due to fewer bugs in production and less time testing.
- Early Detection of security vulnerabilities would **save** UdaPeople from embarrassing or **costly** security holes.



Continuous Deployment (CD): How Technical Benefits Translate to Business Benefits

- Automating infrastructure creation will lead to **cost avoidance** due to less human error and faster deployments.
- Automating infrastructure cleanup will **reduce costs** as unused resources will be easily torn down.
- Faster and more frequent production deployments will help **increase revenue**, as there will be less time to market for new value-generating features.
- Automated smoke tests will help **protect revenue** due to reduced downtime from a deployment-related crash or major bug.



Conclusion

Ultimately, CI/CD would allow UdaPeople to reliably and profitably deliver on its goal to help small businesses care better for their valued human resources.

