



Proposal to adopt CI/CD for UdaPeople Product

This document highlights the business value that will be gained if we adopt the principles behind Continuous Integration [CI] and Continuous Delivery [CD] on UdaPeople product



Value derived from CI/CD principles

While adopting CI/CD practices has an obvious cost, it's largely outweighed by their benefits. By adopting the principles behind CI/CD, the organization will get value in dimensions outlined below:

- Reducing business costs because less developer time is spent on issues from new developer code
- Avoid unnecessary costs by reducing bugs in production and less time in testing
- Avoid cost by preventing embarrassing or costly security holes
- Avoid cost by automating infrastructure creation to avoid human errors and ensure faster deployments
- Less infrastructure cost when we automate infrastructure cleanup to avoid paying for unused resources
- Increase revenue through quick releases of value-generating features achieved from having frequent production deployments



Value derived from CI/CD principles - ctd

- Increased revenue from value generating features take less time to market due to reduced human interventions during deployments
- Protect revenue by reducing downtimes caused by bugs or deploy-related crashes through automating smoke tests
- Protect revenue by quickly restoring production to working state through automated rollbacks triggered by job failures.
- Reducing testing costs significantly since automation does it in matters of seconds
- Reduced costs as our QA team spends less time testing and focus on significant improvement to quality culture
- Product development team will benefit from the resulting seamless software delivery and get more confidence in delivering the product.
- Getting value to the clients sooner will increase overall customer satisfaction as they see a continuous stream of improvements and quality increase.