

Proposal to seek the concept of
UdaPeople Stakeholders to use CI/CD in
UdaPeople Project.



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Introduction

This presentation is basically to throw out the live line and the benefits in inculcating the global phenomenon of Continuous Integration and Continuous Deployment (CI/CD).

Continuous Integration(CI): this the practise of automating the merging all developers' working copies into a shared dedicated branch by compiling, testing and build artifacts several times a day.

Continuous Deployment(CD): this is an approach where value (project) is delivered frequently through an automated deployment.

Benefits

Increase revenue:

1. CI/CD can give the organisation a faster and more frequent deployment production, while this will increase revenue because we will have new value-generating features released more quickly.
2. CI/CD can help to deploy to production without manual checks, increase revenue because new feature release will get to market in less amount of time, because the company have been save from doing time consuming manual checks.

Protect revenue:

1. CI/CD can automate smoke test, and protect revenue because the company will have reduced down-time from a deployment-related crash or bugs.
2. CI/CD can automate rollback triggered by job failure, and protect revenue because we can have a quick undo process to return production to working state.

Reduce cost:

1. CI/CD can spot compile errors after merge, and reduce cost because it will cause less time spent on issues from new code merged.
2. CI/CD can automate infrastructure cleanup, and reduce cost because we will less infrastructure cost from unused resources.

Avoid Costs:

1. CI/CD can catch Unit Test failures, and avoid cost because it result less bug in production and less time in testing.
2. CI/CD can detect security vulnerabilities, and avoid cost because it prevent embarrassing, lost of trust and integrity, and costly security hole that can lead to legal charges.
3. CI/CD can automate infrastructure creation, and avoid cost that may arise from human error, and help faster and consistence deployments.

With all the above points, I believe I have been able to do justice to the fact that we need to inculcate CI/CD in out stack going forward.

Thank you.