

BENEFITS OF ADOPTION OF CICD IN THE DEPLOYMENT AUTOMATION OF UDAPEOPLE

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WHAT IS CICD?

- CICD – means Continuous Integration and Continuous Deployment.
- Continuous Integration (CI): This practice helps in integrating all developers work into a single repository; build, test and analyze the code. Otherwise known as “*Making the Product*”
- Continuous Deployment (CD): Integrated codes from CI are shipped through automated deployments. This is done without affecting the previous state of the application. Otherwise known as “*Moving the Product*”.

DIFFERENCES BETWEEN MANUAL DEPLOYMENT AND CICD.

- Manual deployment pose a lot of challenges in release process with more time spent in release cycle rather than delivering value, code getting lost during manual merge and continuous schedule ships. These could be detrimental to the business performance, commercial and financial obligation of Udapeople.
- However, adoption of CICD would help to eliminate this challenges as the process of integration and deployment would be automated with tools. Hence, consistently adding value to the customer and improving the business performance, revenue, client confidence and brand reputation.

BENEFITS OF CICD

- Beyond technical benefits in integration and automated deployments, CICD offers the following benefits.
- Financials – With CICD, the UdaPeople business can;
 - Reduce Cost: Automation deployment would enable quick and smooth application delivery.
 - Avoid Cost: Errors and failure are detected immediately and won't make it into production; hence, avoiding unnecessary cost.
 - Increase Revenue: Automated deployment guarantees a working application, hence, continuous revenue for Udapeople.
 - Protect Revenue: Job failure can be triggered with rollbacks and prevent an impact on business revenue in shipping failed jobs.
- Reputation: CICD adoption would improve the clients' confidence and reputation of the business as Udapeople application would always provide required value without disruption.

CONCLUSION

- Adoption of CICD would offer tremendous benefits to cloud-based Udapeople Application. Beyond the reputational benefits, the speed of value delivery through CICD adoption guarantees significant improvement in the business financial and commercial performance