

Benefits of CI/CD (Proposal)

UDAPEOPLE





INTRODUCTION

What necessitates CI/CD adoption?

- ❖ Late-finding of critical bugs
- ❖ Infrequent release
- ❖ Too much manual work
- ❖ Configuration drift
- ❖ Late feedback
- ❖ And many more

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Explanation

What is CI/CD ?

CI/CD is an acronym for Continuous Integration and Continuous Deployment all ensuring proper automation of a project pipeline from design to deployment.

❖ CI – Continuous Integration:

has to do with all the testing, analyzing, building and linting processes to ensure that the code bugs fail-fast and are fixed before being pushed to production.

❖ Continuous Deployment:

has to do with provisioning of environment, proper configuration of servers, deployment of code and monitoring to ensure a hitch-free software delivery cycle.

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Brief Highlights of the Benefits of CI/CD

- ❖ **High quality code:** Our developers can easily collaborate, since codes are released in batches to a joint repository and ensure bugs don't make it to production saving the company bad PR and downtime.
- ❖ **Swift software release cycle:** The CI/CD pipeline serves as a ready-made path (from commit to production) for innovation as we strive to deliver better products which would involve code changes
- ❖ **Better Maintenance and Update:** CI/CD enables developers to fix bugs in the background before pushing to production. The fail-fast approach saves time.
- ❖ **Improved Mean Time To Resolution (MTTR):** Small code changes and quicker fault isolation helps to ensure this.
- ❖ **Shorter time-to-market:** short software delivery cycle ensures that our products can get to the market faster.
- ❖ **Better Customer satisfaction**



CONCLUSION

Automation of processes via CI/CD is the new modus operandi for promoting productivity and enhancing the developers' efficiency. Udapeople needs to key into it. Thank you.

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