

UDAPEOPLE

CONCEPTS OF CI/CD



OVERVIEW

- What is CI/CD
- Benefits of CI/CD
- Some Tools
- Next Steps



WHAT IS CI

Continuous integration is a coding philosophy and set of practices that drive development teams to implement small changes and check in code to version control repositories frequently. Because most modern applications require developing code in different platforms and tools, the team needs a mechanism to integrate and validate its changes.

WHAT IS CD

Continuous delivery picks up where continuous integration ends. CD automates the delivery of applications to selected infrastructure environments.

BENEFITS OF CI/CD

- *Less developer time on issues from new developer code*
- *Less bugs in production and less time in testing*
- *Prevent embarrassing or costly security holes*
- *Less human error, Faster deployments*
- *Less infrastructure costs from unused resources*
- *New value-generating features released more quickly*
- *Less time to market*
- *Reduced downtime from a deploy-related crash or major bug*
- *Quick undo to return production to working state*

Some Tools:

- *TravisCI*
- *CircleCI*

NEXT STEPS

Now that you hopefully have a better idea of what CI/CD actually is and how it is woven into the way modern software is built, we can take these considerations into mind when working on our next project.