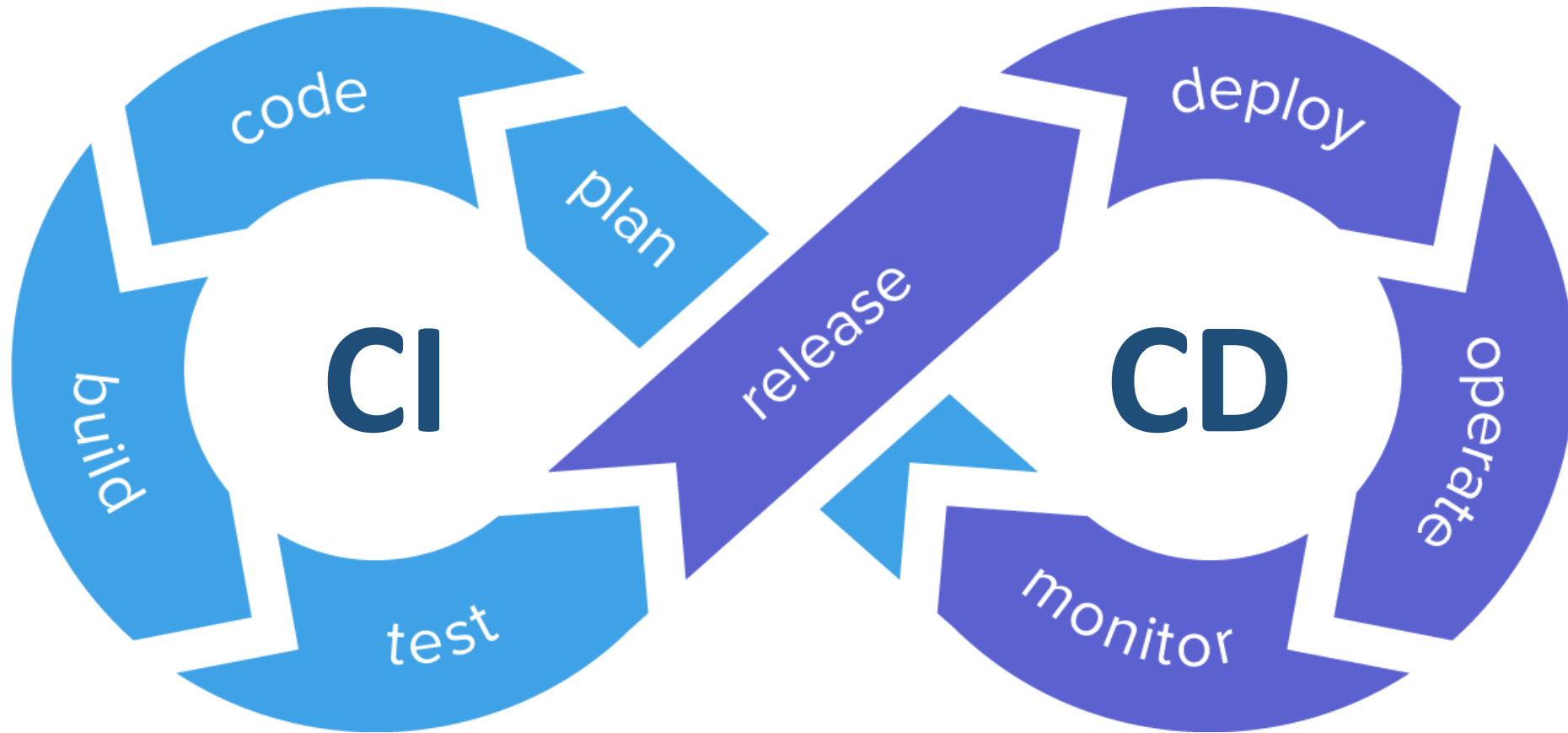


CICD



UDAPEOPLE



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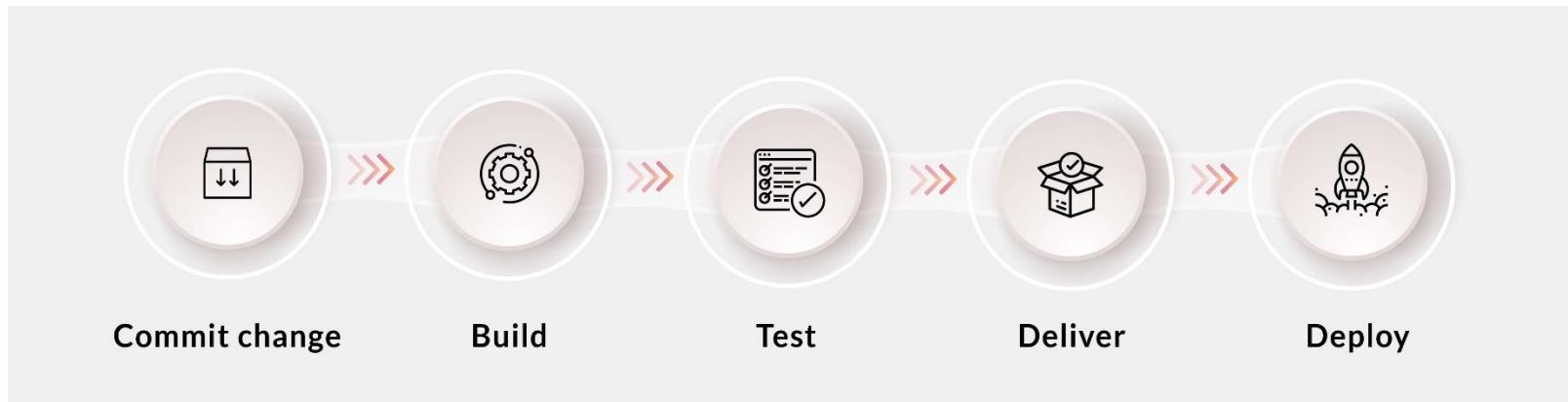
Contents

- Overview
- What is CI?
- What is CD?
- CI/CD Life Cycle
- Why is CI/CD important for business?
- How does CI/CD Reduce Costs?
- How does CI/CD Increase Revenue?



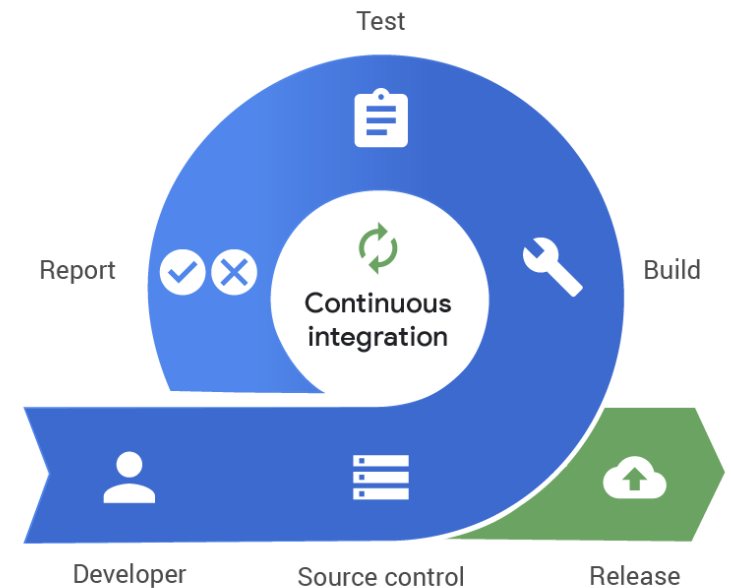
Overview

- CI/CD is a method to frequently deliver apps to customers by introducing automation into the stages of app development.
- The main concepts attributed to CI/CD are continuous integration, continuous delivery, and continuous deployment.
- CI/CD is a solution to the problems integrating new code can cause for development and operations teams (AKA "integration hell").

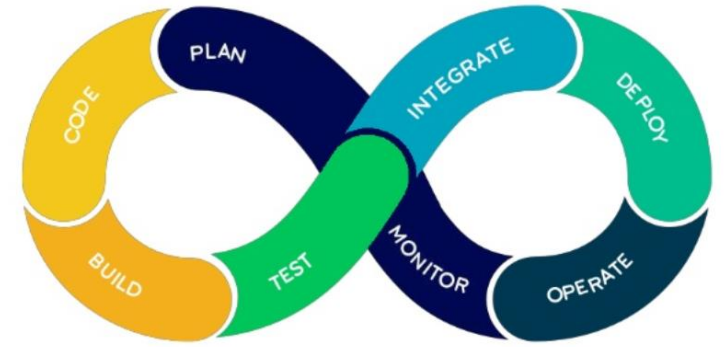


What is CI?

- Continuous integration refers to automating the code changes that come from several contributors into a singular software channel.
- In this DevOps practice, developers merge the changes to the code into a single repository. Once they do that, developers then run the automated builds and tests.



What is CD?

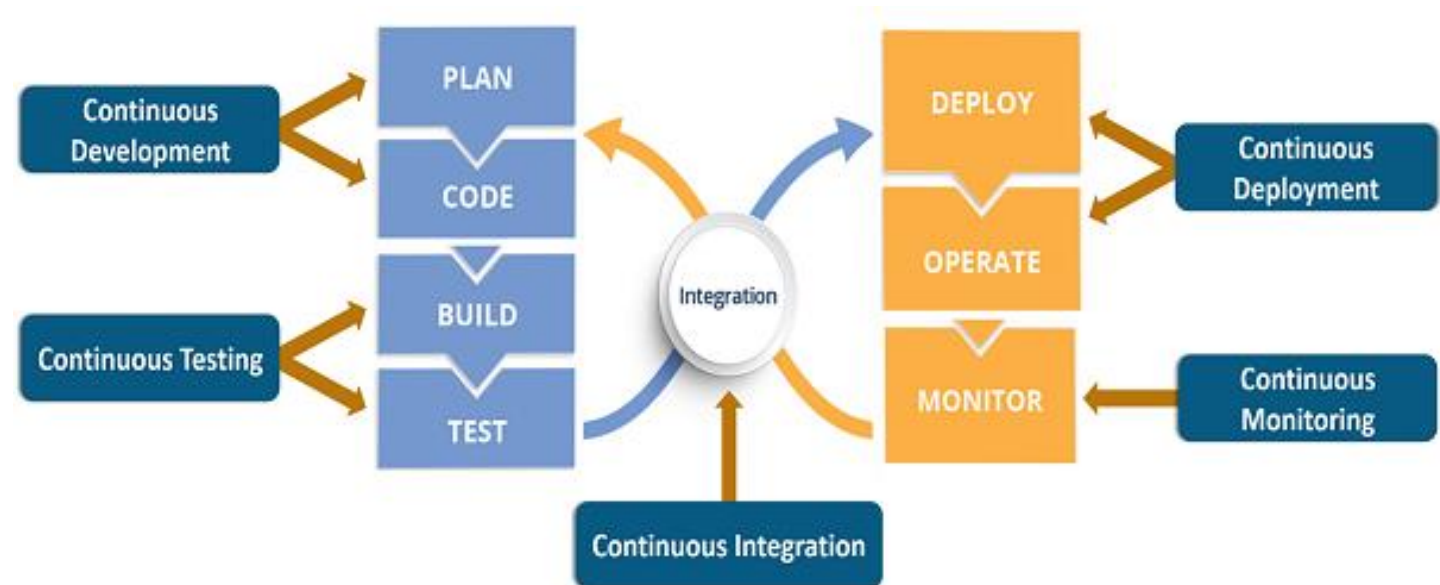


Continuous delivery lets development teams automate the process of software development lifecycle, and it can provide many benefits when provisioning an integrated toolbox, including the following:

- Reduce time to deployment through continuous testing and development
- Decrease the costs associated with traditional software development
- Scale software development based on project size
- Deploy code automatically into each phase of the development cycle

CICD Life Cycle

1. Development
2. Testing
3. Integration
4. Deployment
5. Monitoring



Why is CI/CD important for business?

- Shorter time-to-market of new features
- Automation to reduce costs and labour
- The benefits of rapid feedback
- Streamlined communication
- Gathering metrics about application performance
- Improved customer satisfaction



How does CI/CD Reduce Costs?

- Automation in the CI/CD pipeline reduces the number of errors that can take place in the many repetitive steps of CI and CD.
- Doing so also frees up developer time that could be spent on product development as there aren't as many code changes to fix down the road if the error is caught quickly.
- Teams spend less time on testing and bug fixes, meaning organizations spend less money on tasks that don't provide any value to the business or its customers.



How does CI/CD Increase Revenue?

- CI/CD standardizes deployment processes across all projects.
- As a result, this process stands to dramatically reduce the likelihood that any bugs or errors slip through the cracks and cause problems.
- And because CI/CD also makes it easier to deliver high-quality products to market faster and respond to feedback as it comes in, organizations stand to see an increase in profits. Customers stick around longer and will likely recommend your products to others in their network.



Thank you!

