




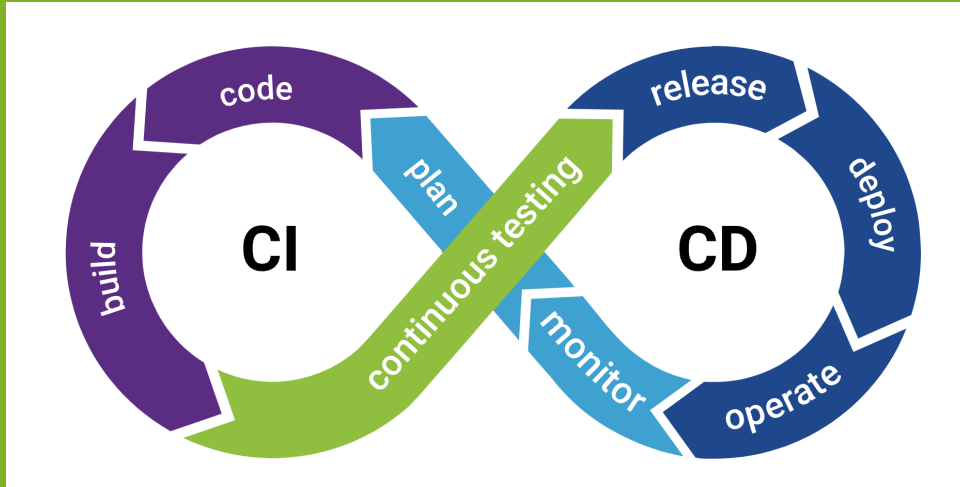
Udapeople

CICD Fundamentals and Benefits



CICD: Stands for **continuous integration** and **continuous delivery/deployment** which is used in a general way to present everything related to automation of the pipeline

- Continuous Integration (CI) is a software development practice where members of a team integrate their work frequently. Usually each person integrates at least daily – leading to multiple integrations per day.
 - Continuous Delivery/Deployment (CD) is the ability to continuously deliver integrated code, bug fixes or new features to production. Software can be deployed at any given time.
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- Everything is “**continuous**”

Goals of CICD

- Automatically: All the integration and deployment processes are automated
- Fast: Run fast, fail fast, deliver fast
- Cost: Saving human effort to do ton of things
- Less risk: Reduce the risks by the automation test, sonar scan, check security,...

Benefits of CI/CD

- Increase speed of deliver products to the market
- Higher quality code
- Safer with quick rollback if needed
- Efficient monitoring
- Cost effectiveness
- With all the benefits of CI/CD mentioned above, I believe it will bring our company to success. We will take the chance to release new features before our competitors on market, less complains from users with the best quality of code, and reduce the cost of the development team for the integration and deployment.

LET'S DO IT - CICD

- Be a part of the modern/big/leading companies (Microsoft, Amazon, Google, ...)
- Try and feel it. Get feedback from your development team and compare with a non-CICD development team.
- Low cost – High productivity – Success