

Fundamentals and Benefits of CI/CD

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CICD Fundamentals

CICD is a combination of Continuous Integration, Continuous Deployment and Continuous Delivery.

Continuous Integration is a practice where different developers integrate their code frequently using a shared repository. The code integration can happen several times a day.

Continuous Deployment is a practice where integrated code is automatically picked, build, tested and deployed. It also involves automated provisioning of underlying infrastructure.

Continuous Delivery = Continuous Integration + Continuous Deployment



Why CICD?

- CICD helps in improving overall process of application delivery by automating the time consuming tasks e.g. build, test, infrastructure setup, and deployment.
- It reduces the chances of any issue produced after code check-in as there is less or No manual intervention.
- Quick delivery of application to production results in happy customer and early feedback.
- More development time as developers don't need to worry about build and deployment of application.
- A transparent culture where people work more collaboratively



CICD Cost Benefits

- Less testing time
- Less bugs in production
- No(or less) human intervention
- Reduce conflicts between team members with the help of streamlined process
- Avoid security issues
- Bugs are found in early phase and quickly fixed



CICD Revenue Benefits

- Frequent delivery of new features
- Faster feedback cycle from stakeholders or end customers
- Easy and fast rollback of application in case any issue found in new code
- Decreased production downtime
- More reliable application due to automation
- Smooth deployments helps in better company profile and customer satisfaction



Thank You!!

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