



CICD

CONTINUOUS INTEGRATION CONTINUOUS DEPLOYMENT

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Continuous Integration is the simply puts as the process of automating building and testing of code. CI allows developers to frequently merge code changes into a central repository where it builds, tests and then run

CONTINUOUS DEPLOYMENT



This is a software engineering approach in which the value is delivered frequently through automated deployments. Everything related to deploying the artifact fits here. It's the process of "Moving" the artifact from the shelf to the spotlight.

Benefits of CI/CD

- ▶ Automating CI means developers can catch errors easily and spend less time on issues, hence saving costs because of reduced man - hours
- ▶ Automating Unit Tests in CI means developers can catch bugs early -breaking bugs in development and have less production bugs.
- ▶ Costs can be saved with this strategy
- ▶ Automating infrastructure deployment in CD means there will be less human error and faster deployment

Benefits of CICD

- ▶ Automating Smoke Tests helps to reduce downtime from deployment crashes, and ensures production servers are always online, reducing the risk of money loss due to deployment downtimes.
- ▶ Automating rollbacks in CD makes it possible to quickly rollback to working state of service, and thus helps prevent production downtimes