Fundamentals & Benefits of CI/CD

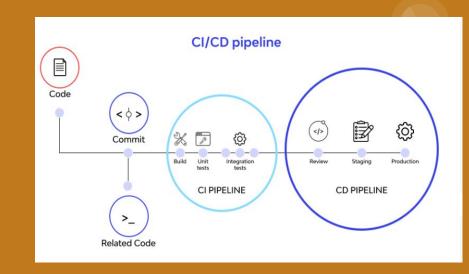
By OUMAR MERSILE ATTI MAHAMAT

Whats is CI/CD?

Continuous Integration (CI) and Continuous Delivery (CD) are terms that are utilized to address a lifestyle, rundown of operational aides and an assortment of practices that improve on the interaction of code adjustments and making coding more sold. This advancement interaction is alluded to as the CI/CD pipeline

- Continuous integration is a practice that encourages developers to integrate their code into a main branch of a shared repository early and often. It's the process of "Making". Everything related to the code fits here
- Continuous delivery is an extension of continuous integration. It focuses on automating the software delivery process so that teams can easily and confidently deploy their code to production at any time

Continuous Deployment



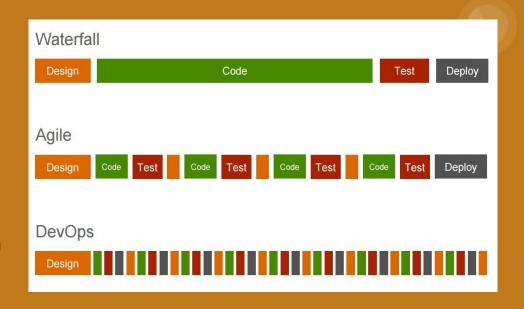
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Continuous Integration + Continuous Delivery

Benefits of CI/CD

Releasing software can be a painful and time-consuming process. The time commitment involved in getting code ready for release can mean changes are delivered every few months at best. But there is another way. CI/CD have enabled many organizations to release on a more frequent basis without compromising on quality. Among the many benefits of the IC/CD are:

- Faster time to market
- Reduced risk
- Shorter review time
- Better code quality
- Smoother path to production
- Faster bug fixes
- Efficient infrastructure
- Measurable progress
- Collaboration and communication
- Maximized creativity



CI/CD benefits for business

Accelerate speed to market

Shipping new features quickly means increasing your speed to market. First your customers are getting access to new features faster, leading to higher customer satisfaction and Your company is getting a faster return on investment from new features.

Cost reduction thanks to automation

By automating actions, you can be sure that they're less prone to human error and easier to manage by the team. It also significantly reduces the cost of software development.

Increased business sustainability

By automating manual tasks, you can prevent your team from burning down all the way before your business becomes successful.

Sources

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