

CI/CD

CONTINUOUS INTEGRATION, DELIVERY AND DEPLOYMENT

2 MEANING OF CI/CD

- The "CI" in CI/CD always refers to continuous integration, which is an automation process for developers. Successful CI means new code changes to an app are regularly built, tested, and merged to a shared repository.
- Continuous deployment (the other possible "CD") can refer to automatically releasing a developer's changes from the repository to production, where it is usable by customers.



3 HOW CI/CD AUTOMATION SAVES MONEY AND TIME

- Deeply expensive downtime. Long-term downtime does not only influence your revenue negatively but also undermines
- Troubleshooting costs. With CI/CD pipeline properly automated, the process of the product deployment and release is more reliable, and developers are not wasting hours on bug-fixing.
- Switching/onboarding costs. Automated CI/CD let new members of the team get down to business right away without having to deal with an exhausting learning curve.
- Staff turnover costs. Happy employees — more successful company! When developers are freed from manual, repetitive tasks, they focus on creating new features and code and continuous quality improvement, isn't that right? Sure, it is. With them knowing they can rely on their system.

4 HOW IT CAN INCREASE REVENUE

- If you want to get everything that CI and CD have to offer, they need to be adopted in tandem with one another. A strong regimen of CI will solve many of your back-end development problems before they have a chance to get serious. This also prevents many layers of complexity from forming and making it difficult to trace problems back to their source when they occur. If all that's not enough, a rigorous commitment to CI will strengthen your team's intuitive ability to work with one another.
- Continuous deployment, as we've noted, specializes in solving the front-end feedback around your product. How do your users feel about it? Are there key components you're missing or central user goals you're failing to meet? These issues, though not strictly technical, are every bit as important as the actual coding.

