



Continuous Integration Continuous Delivery

CRASH COURSE ON CI/CD AUTOMATION



What is CI/CD

CI/CD is the combined practice of automating building, testing and deploying code in application or software development. It helps develop and ship quality software, significantly improving software development workflow.

CI/CD comprises two methods: **continuous integration (CI)** and **continuous delivery (CD)**. **Continuous integration** automates code building and testing every time a developer submits changes to version control. This allows a development team to detect bugs quicker and locate them more easily. **Continuous delivery** takes these automated builds (including code and tests) and runs automated tests on them before pushing them into test and production environments.



Current deployment process



Stressful

**Lack of Instant
Feedback**

**Low Customer
Satisfaction**

**Added Cost in
Maintenance**



What exactly is CI/CD from a business perspective

01

Destroy communication silos between teams

Software development and operations communicate and collaborate better together

02

Measure everything

We can measure and track outcomes. Also based on metrics we can make informed decisions.

03

Leverage tooling and automation

Use tools to automate certain processes and reduce time to market

04

Implement changes gradually

We can ship changes or new features gradually and incrementally reducing risk of down time



Benefits of CI/CD

What does CI/CD do for you?

01

**Superior
Code Quality**

03

**Shorter time-
to-market**

05

**Cost reduction thanks
to automation**

02

**Fast
feedback**

04

**Easier
communication**

06

**Greater
customer
satisfaction**





**Translates to
Increased
Bottom Line**