

Fundamentals and Benefits of CI/CD to Achieve, Build, and Deploy Automation



By Ankush Dadwal

What is CI/CD?

A CI/CD pipeline automates the software delivery process.

The pipeline:

- Builds the code (CI)
- Runs tests (CI)
- Deploys the application (CD)

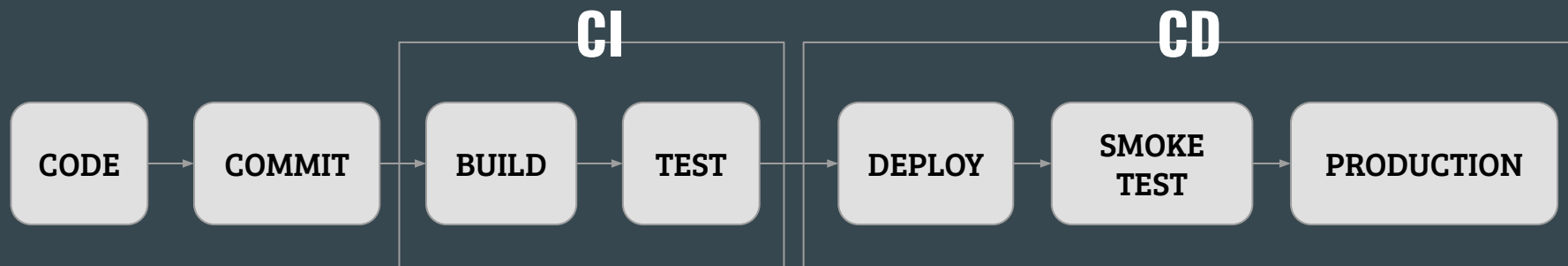
This remove manual errors, provide standardized feedback loops to developers, and enable fast product iterations.

Why CI/CD Matters

CI/CD practices help us get continuous feedback not only from your customers but also from our own team. Some of the notable benefits of implementing CI/CD pipelines to your everyday software development process are:

1. Reduce costs
2. Smaller code changes
3. Faster release rate
4. Fault isolations
5. More test reliability

CI/CD Pipeline



CONCLUSION

CI/CD are two DevOps best practices as they tackle the misalignment between developers and operational team. With the presence of automation, developers can release changes and new features more frequently, while operation teams have better overall stability.