



Fundamentals and Benefits of CI/CD

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Definition

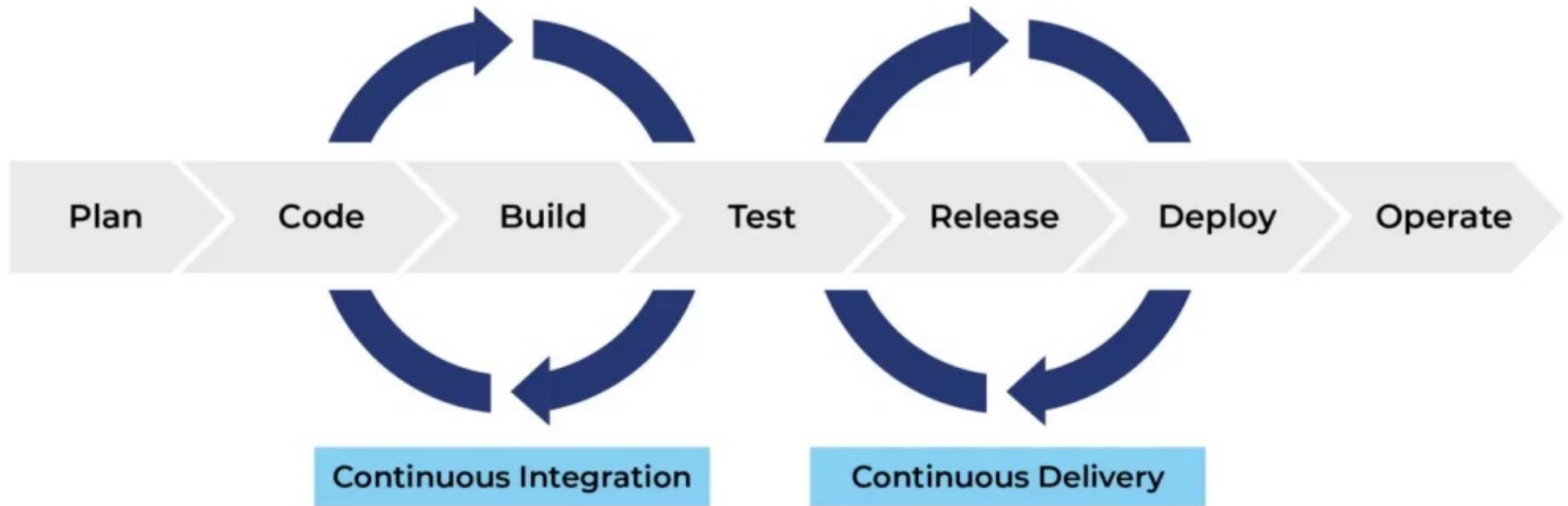
- CI (Continuous Integration):

This is an automation process for developers to have our code automatically built, tested, and merged to a shared repository.

- CD (Continuous Deployment):

This is the way to automatically release a developer's changes from the repository to production for customer to test and verify as a real product.

CI/CD



Pros and cons of CI/CD

Pros

- Reduce cost
- Reduce effort
- Enhance correctness and less risky
- Discover new issue earlier
- Make customer happy
- Reduce release time

Cons

- Take more effort for setting CI/CD
- Run pipelines all the time (testing is core)
- Get used to automation testing
- Strong knowledge for CI/CD systems