

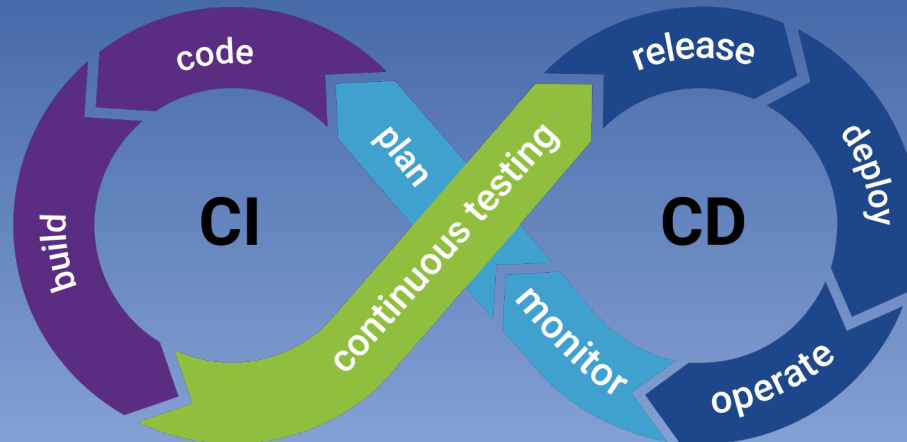
# Udacity Project

Give Your Application Auto-Deploy  
Superpowers

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# CI/CD

- CI/CD stand for continuous integration and continuous delivery/continuous deployment.
- CI is a practice that encourages developers to continuously integrate their code into a main branch of a shared repository early and often, instead of building out features in isolation and integrating them at the end of the development cycle.
- CD as an extension of CI, focuses on automating the software delivery process so that teams can easily and confidently deploy their code to production at any time.



# Benefits of CI/ CD

- CI/CD as a process helps businesses reduce cost by easily catching compile errors after merge which prevents developers from spending more time on issues from developer.
- Certain cost to business can be avoided by using CI/CD process to catch unit test failures thereby reducing bugs in production and less time in testing
- Costly security holes in software can be avoided by using CI/CD to detect security vulnerabilities and avoid future cost that could be incurred .
- Smoke test as part of the CI/CD process protects company's revenue by reducing downtime from from a deploy-related crash or major bugs in software's.
- CI/CD can help increase business revenue through faster and more frequent production deployments of value generating features .