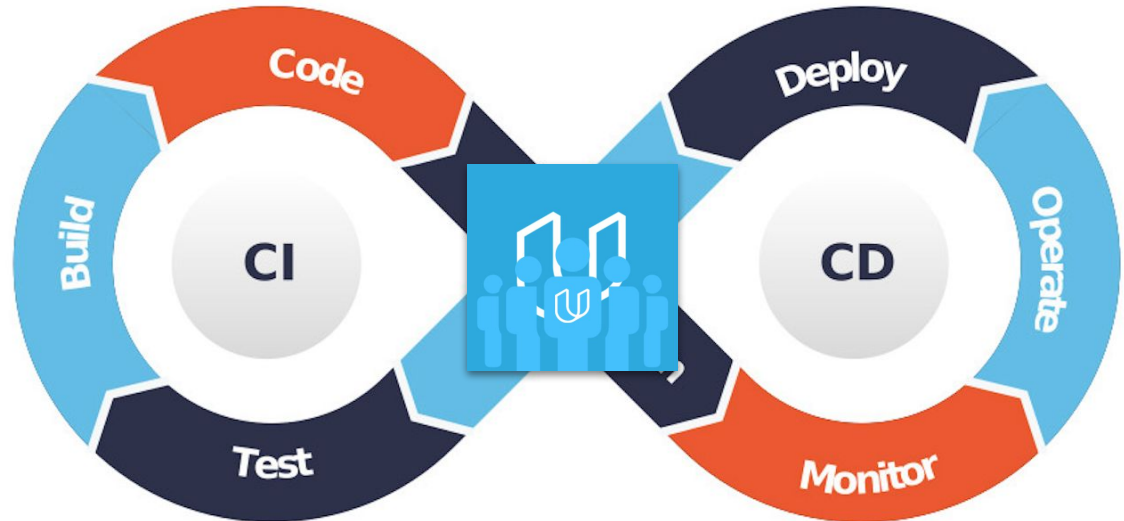


CONTINUOUS INTEGRATION(CI) - CONTINUOUS DELIVERY(CD) PROCESS

UDA-PEOPLE

Key points for discussion:

- What is CI/CD?
- What does CI/CD cost?
- What are the benefits of investing in CI/CD?
- Does it align with our leadership values/principles?



What is CI/CD?

- **Continuous Integration** is breaking our work up into small pieces, sharing our work with our peers, and QA-ing frequently. It is what compels the organization to focus integrating the work from each developer into the main repository multiple numbers of times in a day to gauge any integration bugs and speed up collaborative development.
- **Continuous Delivery** reduces friction in the release process and automates the steps that are required to deploy a build to release a code safely at any point in time. Continuous Deployment, on the other hand, is used to automate the delivery whenever a code is changed.

What does CI-CD cost?

- The cost to move to CI/CD depends on how much we are willing to invest in great automated testing.
- In case of UdaPeople, we have a rich suite of automated tests including end-to-end tests rather than manual testing. Running automated tests on a CI tool costs far less and is more reliable than paying an engineer to do the same thing.
- It reduces the chances of manual error during testing

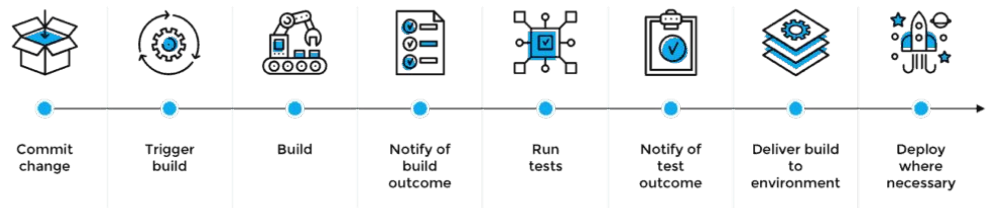
What are the benefits of investing in CI/CD?

Yes, CI/CD is a great investment because it makes your developer's job more enjoyable, but engineer happiness is simply a side-effect of a great business decision.

There are also many benefits of CI/CD that go beyond engineer happiness and truly justify the investment:

- Superior Quality Code
- Accelerated Release Cycles
- Loyal Customer Base
- Detection & Isolation
- Easy Maintenance & Updates
- Cost Deduction
- Improved Mean Time To Resolution (MTTR)

CI/CD Pipeline



Does it align with our leadership values/principles?

- CUSTOMER SATISFACTION: Since code quality is higher and features are delivered faster, customers can generate value right from the first feature deployment.
- Since all the repetitive tasks are taken care by the CI process, employees can spend their time learning new technologies and generating value for the organization. This also develops a healthy work culture.

