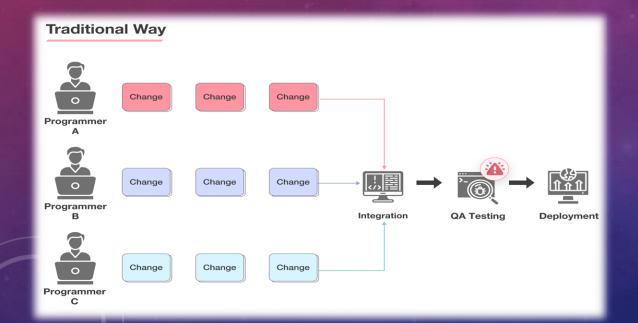
CI/CD Introduction

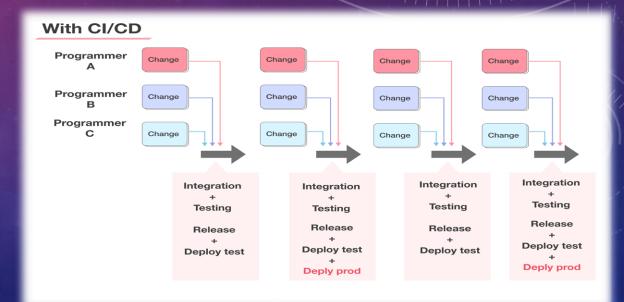
"THE EARLIER YOU CATCH DEFECTS, THE CHEAPER THEY ARE TO FIX."

'DAVID FARLEY'

WHAT IS CI/CD?

- Cl and CD stand for continuous integration and continuous delivery/continuous deployment.
- In the software world, the CI/CD pipeline refers to the automation that enables incremental code changes from developers' desktops to be delivered quickly and reliably to production.

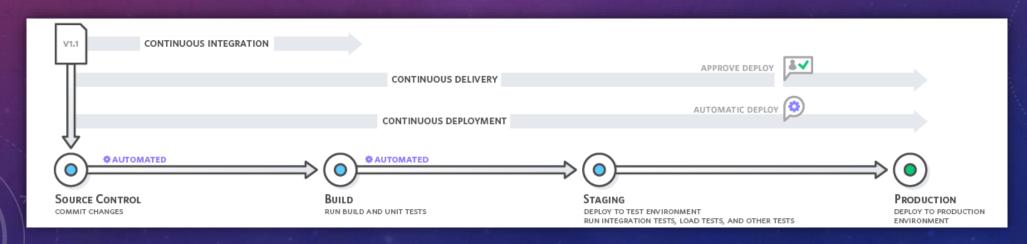




DEFINITION OF CI & CD

- Cl stands for Continuous Integration.
- With continuous integration, developers frequently commit to a shared repository using a version control system. Prior to each commit, developers may choose to run local unit tests on their code as an extra verification layer before integrating.
- A continuous integration service automatically builds and runs unit tests on the new code changes to immediately surface any errors.

- CI stands for Continuous Deployment.
- Continuous deployment is a strategy in software development where code changes to an application are released automatically into the production environment.
 - This automation is driven by a series of predefined tests. Once new updates pass those tests, the system pushes the updates directly to the software's users.



WHAT ARE THE KEY CI/CD BENEFITS YOU NEED TO KNOW ABOUT?

- Reduced time-to-market

 The ultimate goal of a CI/CD pipeline is to build and deliver software to users at a rapid pace.
- Improved Mean Time to Resolution (MTTR)

 CI/CD significantly helps reduce the MTTR, as there are only minor changes in the code and detecting fault isolations is less complicated.
- Maximum consumer demand satisfaction Implementing CI/CD can facilitate end-user involvement and feedback in the continuous development stage that helps usability modifications.





WHAT ARE THE KEY CI/CD BENEFITS YOU NEED TO KNOW ABOUT?

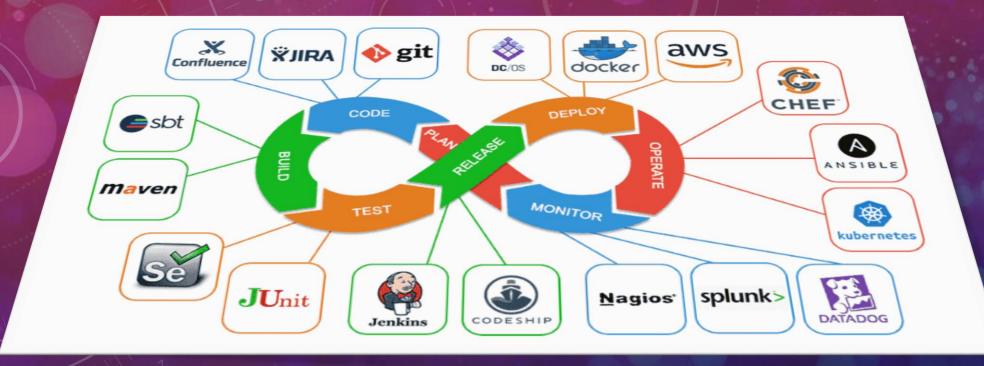
Rapid feedback cycle

Combining the feedback, studying the user behavior, and tracking the key performance indicators can give insights into what works for your organization and how to design changes or improvements.

• Enhance communication and collaboration You must bring down the walls between teams and encourage

more communication to achieve this. Breaking down the silos between the development and operations teams is a good start.





THANK YOU!

PRESENTER: MINA SAMEH