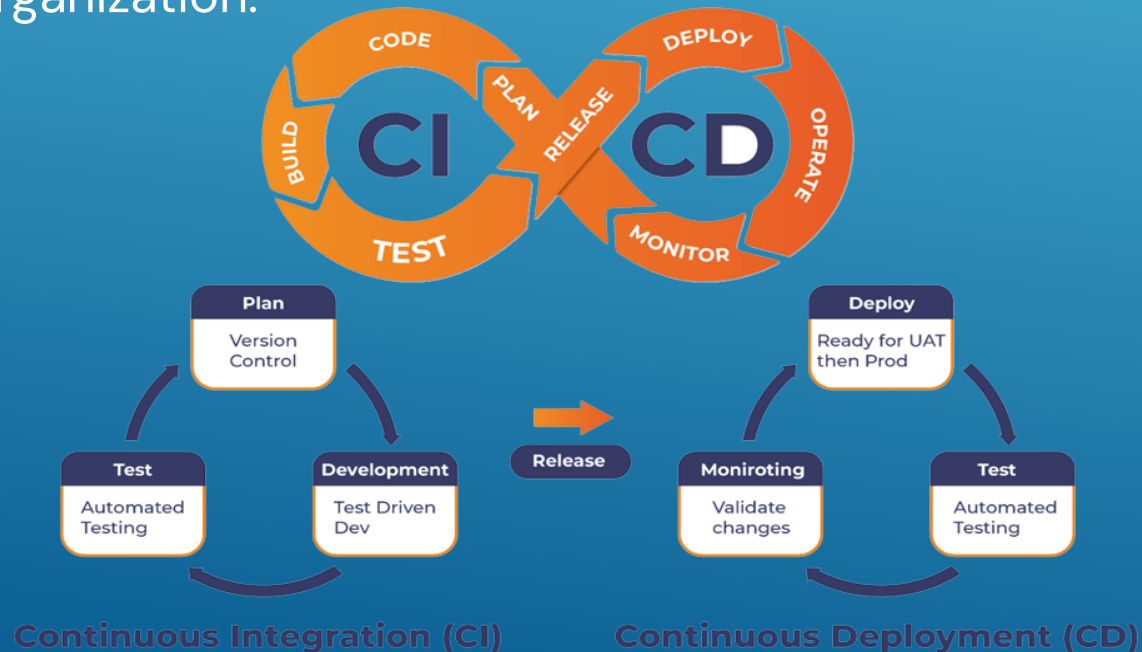




Uda-people application develop and deploy base on CICD

SO WHY WE NEED CICD FRAMEWORK GO THROUGH SOFTWARE PRODUCT DEVELOPMENT PROCESS ?

CI/CD practices help developers incorporate code changes, bug fix, etc. quickly, and they help operations teams deploy and update software, quickly and easily. These will lead to many major benefits for organization.



Reduce Cost

Avoid Cost

Increase Revenue

Protect Revenue

- Less developer time on issues from new developer code. Increases visibility throughout the entire software development process when you're able to detect errors, locate their origins, and discover the cause, you can get the problem fixed. This reduce cost is also the amount of time and number of engineers that perform these repetitive tasks instead of automation.
- Less infrastructure costs from unused resources. This is especially important for companies that have tons of products — a lot of money is wasted on these unused resources. Once we have a CI/CD that defines all the resources needed for a product, that same CI/CD can be applied to destroy the resources no longer in use.

REDUCE COST

- Less bugs in production and less time in testing. Bugs can take weeks or months to fix in traditional software development, but the constant flow of a CI/CD pipeline makes it easier to address and fix bugs faster and with better confidence. The product is more stable and reliable over time.
- Prevent embarrassing or costly security holes. Oversights and mistakes in programming and testing can create vulnerabilities and expose software to malicious activity. The security evaluations should take place during the testing phase through the pipeline. Keep product always trustworthy without addition cost for auditing.
- Less human error, Faster deployments . CI/CD pipeline prepare the scripts that deploy automatically can protect you from human mistakes from forgetting one of the deployment steps or making a mistake of some kind during one of them. This assures that every new deployment works the same way as the previous ones.

AVOID COST

- New value-generating features released more quickly. The common emphasis on continuous iteration has changed the nature and power of software development. Businesses can get software to market faster, test innovative new features or architectures while minimizing risk and cost, and effectively refine products over time. Introducing new production features on time, that warranty the revenue and customer satisfy.

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- Less time to market. Traditional software development approaches can take months or years, and formalized specifications and requirements aren't well suited to changing user needs and expectations. CI/CD development readily adapts to new and changing requirements, which enables developers to implement changes in subsequent iterations. Products developed with CI/CD can reach market faster and with more success than the competition.

INCREASE REVENUE

- Reduced downtime from a deploy-related crash or major bug. CI software should be able to deploy and test a build in a test environment that closely simulates the final production environment.
- Quick undo to return production to working state. Blue/green deployments pattern also work well with (CI/CD) workflows, also limiting their complexity. If discover the green environment is not operating as expected, there is no impact on the blue environment. You can route traffic back to it, minimizing impaired operation or downtime and limiting the blast radius of impact. This ability to simply roll traffic back to the operational environment. If any, ability to simply roll traffic back to the previous environment to avoid any unexpected in business.

PROTECT REVENUE