

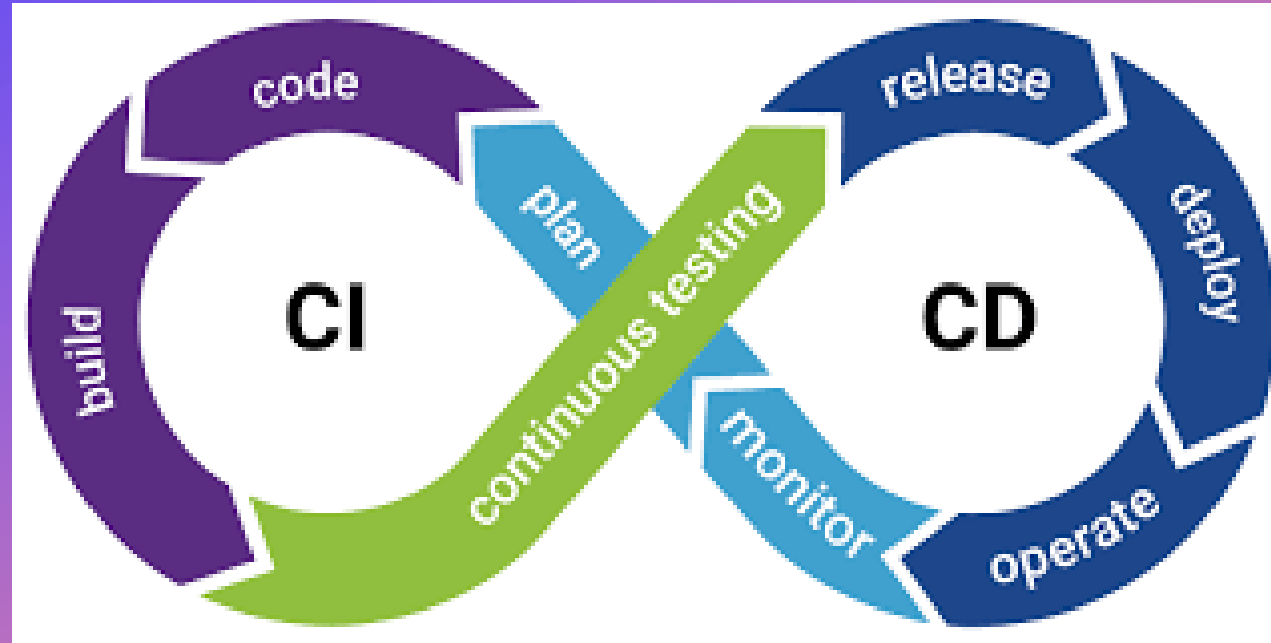
CI/CD

continuous improvement is better
than delayed perfection

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AGENDA

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Continuous Integration
Continuous Deployment
CI/CD Benifits

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Continuous Integration

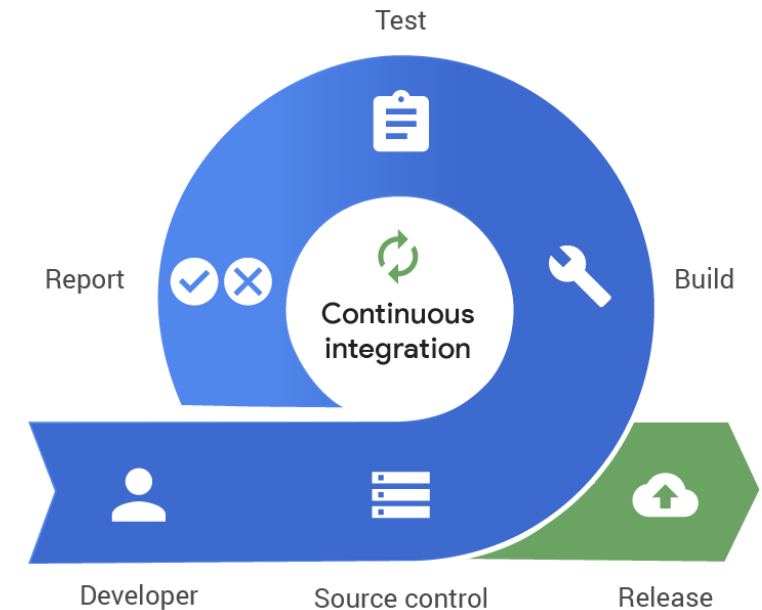
Continuous Integration (CI) is the process of integrating code changes from multiple contributors to create a single software project



theoretical example of a production line making teddy bears showing the progress done by developers in each iteration

Continuous Integration

CI is being able to reconfigure machines on the production line rapidly in order to produce custom-made products. Continuous Integration increases the delivery rate of code, has an inbuilt quality assurance mechanism for checking the quality of code, and can adapt rapidly to client requests.



Continuous Deployment

Continuous Deployment takes care of the deployment of the new version of the application to the users automatically.

This part of the CI/CD pipeline takes care of building and deploying the final updated version of the application to your different environments without any human intervention.

In technical terms, it is a strategy or methodology for software releases where any new code update or change made through the rigorous automated test process is deployed directly into the live production environment, where it will be visible to customers.

Benefits

Technical Language	Value	Translation
Catch Compile Errors After Merge	Reduce Cost	Less developer time on issues from new developer code
Catch Unit Test Failures	Avoid Cost	Less bugs in production and less time in testing
Detect Security Vulnerabilities	Avoid Cost	Prevent embarrassing or costly security holes
Automate Infrastructure Creation	Avoid Cost	Less human error, Faster deployments
Automate Infrastructure Cleanup	Reduce Cost	Less infrastructure costs from unused resources
Faster and More Frequent Production Deployments	Increase Revenue	New value-generating features released more quickly
Deploy to Production Without Manual Checks	Increase Revenue	Less time to market
Automated Smoke Tests	Protect Revenue	Reduced downtime from a deploy-related crash or major bug
Automated Rollback Triggered by Job Failure	Protect Revenue	Quick undo to return production to working state



THE END

Questions