


WHAT IS CI/CD




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In a Software Development Project
multiple developers work on
different features at the same time

Will complete the entire feature
and commit it at the end



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But one day these features need to
be merged to the main software

On that day.....

Merge Conflict



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Before that they need be tested
(Unit and Integration tests)

These process could
become exhausting,
time-consuming & messy



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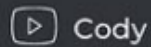
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This kills productivity and
delays the feature release



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That is where CI/CD came to the rescue!

CI - Continuous Integration

CD - Continuous Delivery

CD - Continuous Deployment

CI/CD



CI is a practice where developers commit code changes in a **central repository** multiple times a day



Each change in code triggers an **automated build-and-test sequence** for the given project, providing feedback to the developer(s) who made the change

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Continuous Delivery is a practice where code changes are **automatically** prepared for a **release** to production after validation

I'm Ready!






Finally, **Continuous Deployment**
automatically releases the new version of
the software to the end - users instantly

source, build, test,
deploy, repeat



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