CI/CD BENEFITS

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CI/CD benefits proposal

The concepts explained .

What does CI/CD stand for ?

- Continuous integration

Continuous integration describes the process of merging developer branches to the main branch several time a day. CI puts an emphasis on test automation and finally generates a high quality, deployable artifact

- Continuous delivery

In addition to continuous integration, continuous delivery makes sure that changes of a software product can be released quickly to customers in an automated way and at any point in time.

- Continuous deployment

Continuous deployment extends continuous delivery in such a way that it allows frequent deployments without any human interaction

WHAT ARE OUR CURRENT PAIN POINTS

1. Our manual release process is error-prone and always leads to delays of production deployments
2. This in turn leads to poor software quality since we don't have time for quality analysis anymore
3. Deployments are complex. Only a chosen few experts are able to understand the whole process and tons of hand-crafted scripts. No smoke tests and rollback mechanism
4. We get late feed back from the business department which prevents us from creating flexible solutions

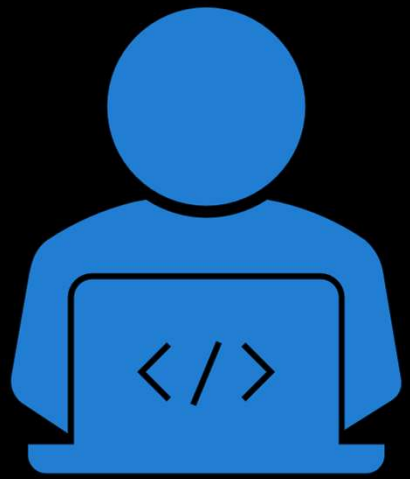
Business benefits of CI/CD

- SUPERIOR QUALITY CODE

Developers release code into a shared repository in batches, which enables them to conduct parallel testing. Rather than working in isolation they share their builds with the entire team frequently

- Accelerated release cycles

With CI/CD you can visualize the development cycle from commit to production, continuously merge code, and repair detected bugs .You can release software to production multiple times after thorough testing without compromising quality parameters



Cost deduction

As per one of the most recent Forbes insights surveys, “three out of four executives agree that the amount of time, money, and resources spent on ongoing maintenance and management- versus new project deployments or new initiatives- is affecting the overall competitiveness of their organization”