CI/CD is important

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A comprehensive presentation

What is CI/CD?

- ➔ Continuous Integration/Continuous Delivery.
- ➔ Continuous Integration is the process of integrating code changes frequently - ideally several times a day - to a shared repository.
- ➔ Continuous Delivery is the process of getting changes of all types, can be database changes, tests and code changes, into production, or into the hands of users, safely and quickly in a sustainable way.

Why CI/CD?

- ➔ Having a CI/CD pipeline in place allows us to deliver software faster and with higher quality.
- ➔ Speeds up the development process, testing and deployment, so teams can focus on what matters most: building robust software.
- ➔ No more manual deployments, no more waiting for a release window, no more last minute panic.

Business benefits of CI/CD

- ➔ Moving cloud infrastructure to a code-based approach, makes it easier to manage and maintain when handing over to other team members.
- ➔ Since the setup is code-based, it can be versioned and tracked, which makes it easier to troubleshoot issues and roll back to a previous version if something goes wrong. With next to zero down time.
- ➔ Conveniently test new features in a production-like environment before releasing them to the public with almost no setup required (previously it would take days to set up a staging environment).
- ➔ Less chance of human error, since the deployment process is automated.
- ➔ Less time spent on manual tasks, such as deployments, hence less failures, delivering the best experience to our users.

References

- https://tricloud.dk/services/consulting/devops/

- https://www.atlassian.com/continuous-delivery/principles/continuous-integration-vs-delivery-vs-deployment