

CI/CD PROPOSAL

UDACITY PROJECT

What is CI/CD?

- Continuous integration and continuous deployment (CI/CD) is a set of ideas, processes, and capabilities that enables software changes to be delivered to users in a timely, repeatable, and secure manner by introducing automation into software development processes

Benefits of CI/CD to Business

1. **Reduced cost:** Automating the build, test, and deployment process reduced the time and effort required to deliver software updates lowering cost and increasing efficiency.
2. **Faster time to market:** Automated testing and deployment processes can significantly reduce the time it takes to release new features and bug fixes, allowing a business to respond more quickly to customer needs and market changes. This makes clients happy and they stay with you thus more revenue.
3. **Increased efficiency:** CI/CD streamlines the development and release process, reducing manual effort and minimizing the likelihood of errors. This results in increased efficiency and productivity.
4. **Better collaboration and communication:** CI/CD practices encourage collaboration and communication between development, QA, and operations teams, leading to a smoother and more efficient release process.
5. **Improved software quality:** CI/CD practices encourage developers to regularly integrate and test their code, making it easier to identify and fix issues early in the development process. This leads to a higher quality product, fewer bugs, and a better user experience.

Disadvantages & conclusion

- It may seem complex during setting up the infrastructure.

Conclusion: The pros outweigh the cons and thus CI/CD will be of great help to the business in terms of minimizing costs and making our clients happy.