

# CI/CD PROPOSAL

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UDACITY PROJECT

# What is CI/CD?

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- 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

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- Continuous Integration/Continuous Deployment (CI/CD) can bring several benefits to a business, including:
  1. 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.
  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.
  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 reliability and security: Automated testing and deployment processes help to ensure that software is reliable and secure, reducing the risk of outages and security breaches.

# Disadvantages & conclusion

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- 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.