



# CI/CD

***Speeding up development and deployment process.***



Pipeline #168279



GitLab

# What is CI?

- Continuous Integration is a development practice that encourages developers to integrate code into a shared repository frequently. After each integration, automated builds and tests are run to ensure the new code is stable. This process enables developers to detect and fix bugs quickly and prevents conflicts between multiple developers working on the same code.



# What is CD?

- Continuous Delivery is the practice of automating the deployment of code to production environments. This enables teams to deliver new features and fixes to customers more quickly and with fewer errors. When combined with Continuous Integration, CD allows teams to deploy code safely and efficiently.



# Benefits of CI/CD

Improved quality: Automated tests detect problems early and allow developers to find and fix bugs quickly.

Increased speed: Automated builds and deployments lead to faster results and higher customer satisfaction.

Greater agility: CI/CD allows teams to deploy new features more quickly and respond to customer needs faster.

scalability: allowing them to quickly respond to changes in customer demands and market trends.



# Great Business Impact



Avoid Costs associated with manual processes, as it automates the testing and deployment process hence reducing the risk of errors.



Reduce Costs by allowing teams to quickly respond to changes in customer demands and market trends, allowing them to scale their development and release processes quickly and reliably.



Increase Revenue by reducing the time-to-market for their products, as well as allowing them to quickly and reliably respond to customer needs and market trends.



Protect Revenue by allowing teams to track performance metrics, allowing them to determine the success of their CI/CD efforts and take proactive measures to address potential issues quickly.

