



Introduction to CI/CD

By Essam Atef



Introduction



Definition of CI/CD

CI/CD stands for Continuous Integration/Continuous Deployment or Continuous Delivery. It is a software development practice that involves automating the build, test, and deployment of code changes to production environments. CI/CD aims to deliver code changes frequently and reliably, while also ensuring high quality and reducing the risk of introducing issues into the production environment.

Differences between CI/CD

Continuous Integration

Continuous Integration (CI) is the practice of frequently merging code changes into a shared code repository and automatically building and testing the code changes. The goal of CI is to ensure that changes are integrated and tested as early as possible in the development process to catch issues early and reduce the likelihood of introducing bugs into the codebase.

Continuous Delivery

Continuous Delivery (CD) is the practice of automatically deploying code changes to production environments after they have been tested and approved. The goal of CD is to ensure that code changes are released to users quickly and frequently, while also maintaining a high level of quality and reducing the risk of introducing issues into the production environment.

Solutions

CI/CD is a solution that can help businesses to improve their software development processes by automating many of the manual tasks involved in building, testing, and deploying software.

Cost Savings

By catching issues early in the development cycle and reducing the need for manual testing and deployment, CI/CD can help businesses to reduce costs associated with software development and maintenance.

Improved Security

By automating security testing and vulnerability scanning, CI/CD helps businesses to improve the security of their software and reduce the risk of cyber attacks.

Increased Efficiency

By automating many of the manual tasks involved in software development, CI/CD helps businesses to improve efficiency and reduce the workload on developers.

Solution 4

In the presentation session, the background can be filled with information that is arranged systematically and effectively concerning an interesting topic to be used as material for discussion at the opening of the presentation session.



Thank you

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