



UdaPeople

What is CI/CD

- It Stands for Continuous Integration, Continuous Delivery.
- It's a practice that creates a lifecycle from development throughout deployment.

Motivation

CI/CD bridges the gaps between development and operation activities and teams by enforcing automation in building, testing and deployment of applications. CI/CD services compile the incremental code changes made by developers, then link and package them into software deliverables. Automated tests verify the software functionality, and automated deployment services deliver them to end users. The aim is to increase early defect discovery, increase productivity, and provide faster release cycles. The process contrasts with traditional methods where a collection of software updates were integrated into one large batch before deploying the newer version

Benifits

- It's the way of reducing human error to deliver more robust & trust worthy code base.
- Create an automated process that handles the steps needed to deliver business requirements.

Benifits

- Reduce Costs & make more revenue = Stable infrastructure.
- By saving time, increasing the productivity, providing faster release cycles, And meeting the expectations of the end user is the only way to succeed.
- Even though there are some challenges, CI/CD will improve overall business processes and dramatically reduce costs on the long run

Cost Efficiency

- **Don't repeat yourself:** CI/CD adopts the principle of not having a group of operations people to repeat the same process of releasing cycles, which you have only a DevOps Engineer whose job is build the flow only once, which can highly reduce the cost of hiring too much people.
- This will also help with reducing the cost of physical resources on the cloud by choosing the best infrastructure tools and services.
- Also, This has a great impact of reducing human errors when deploying a new release to the end user.