

SELLING CI/CD UDACITY PROJECT 3

Fundamentals and Benefits of CI/CD to Achieve,
Build, and Deploy Automation for Cloud-Based
Software Products

BENEFITS OF CI/CD

- Being the lead in development of Udapeople product, we would implement the best practices of CI/CD in this project. This will enable the product reach to the market faster. Also through autonomous flow from design to deployment guarantee better integration, delivery and accelerated value to the clients.
- The following are some of the benefits of CI/CD.
 1. Increased delivery of the software
 2. Superior code quality
 3. Easy maintenance of the software
 4. Efficient infrastructure
 5. Agile development with measurable progress.

FUNDAMENTALS OF CI/CD

➤ Continuous Integration

The practice of merging all developers' working copies to a shared mainline several times a day.

➤ Continuous delivery

An engineering practice in which teams produce and release value in short cycles.

➤ Continuous deployment

A software engineering approach in which the value is delivered frequently through automated deployments. Deploying automatically pushes features and fixes to customers quickly, encourages smaller changes with limited scope, and helps avoid confusion over what is currently deployed to production.

WHY CI/CD

- To avoid unhealthy software going to production. Many businesses who do not apply CI/CD experience losses in their business as a result of failed software products, bad quality and late releases. With CI/CD businesses achieve good quality code of the product, better integration and faster delivery of the product.
- CI/CD together with Devops ensure better team collaboration, and delivery of quality products. The ability to get feedback faster in ci/cd enables the team to correct errors faster and ensure a quality product is delivered to customers on production.
- CI/CD reduces waste as you get earlier feedback from the customers.

THANK YOU