

UdaPeople

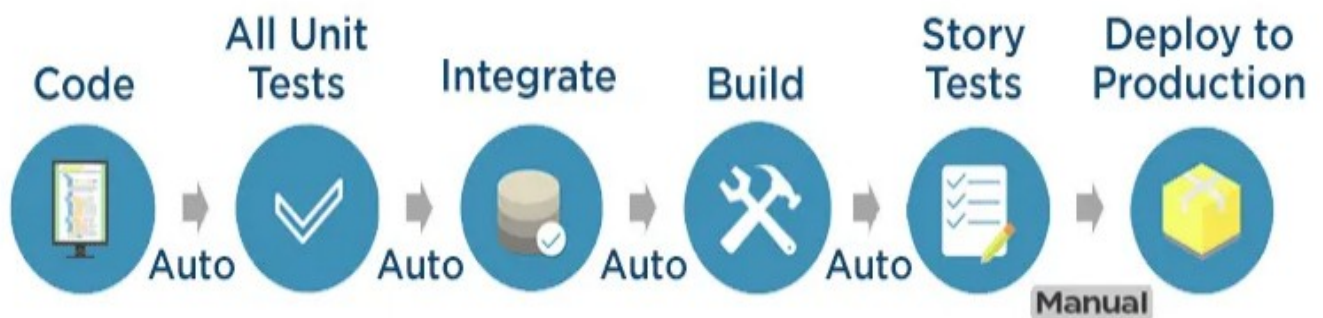
CI/CD

Continuous Integration: The practice of automating the integration of code changes from multiple developers into a single codebase.

Continuous Deployment: An approach in which softwares are delivered frequently and through automated deployments.

Continuous Delivery: Continuous Integration + Continuous Deployment.

Workflow:



Benefits:

- Deploy/Deliver faster - CI/CD pipeline boosts the rate of software releases. It **creates revenue** since products/features are delivered quickly and frequently to the market.
- Automation - CI/CD automates the source code management, the version control system, the deployment mechanisms and so much of the testing. It **reduces costs** involved by removing/reducing human intervention.
- Improved mean time to resolution - CI/CD pipeline allows the team to find issues quickly and can fix them fast. The ability to rapidly resolve problems **protects revenue**.
- Minimal/No downtime & Simplified rollback - CI/CD enables the team to perform Blue Green deployment which ensures no downtime of the application. Also, the team can rollback the changes easily in case of any issues. This **controls costs** by reducing the time & energy we spend.