



Why we choose Continuous Integration and Continuous Deployment

- Fundamentals of CI/CD
- Benefits of CI/CD E.g Creating revenue, protect revenue and control cost



Why we choose Continuous Integration and Continuous Deployment

As the world of technology evolves, I strongly believe we should embrace the growth that it brings, which is why we must constantly hone our skills as individuals while also doing our best to equip ourselves with knowledge of the new tools that the world of technology creates not only for our benefit but also for the benefit of our company.

Moreover, Moving from the local/on prem way of doing things to the cloud is part of the new evolvement of technology. Using CI/CD is a way of embracing growth which also provides us a lot of benefits. As a company, we care about how we deliver our products to our clients, and we also value feedback, both positive and negative, because it helps us improve on our next features or new features.

Furthermore, with tools like git, github, bitbucket, circleci, and others, CI/CD is a better and faster way for continuous integration, continuous deployment, and continuous delivery of new features, versions, and products.



Benefits of CI/CD

- We want to increase our revenue

How do we increase revenue using CI/CD ?

To begin, by utilizing CI/CD, we achieve faster and more frequent production deployments, implying that new value-generating features are released more quickly, attracting more clients to use our product while also benefiting existing users. I'm confident that our revenue will increase significantly.

Furthermore, we enjoy the benefit of automation using CI/CD we deploy to production without manual checks, which give us less time to market, we are going to have increase revenue because we deliver on time, and also our clients are happy because we deliver on time.



Benefits of CI/CD

- How do we protect revenue using CI/CD ?

I strongly believe we are more equipped using CI/CD, as we are looking to increase our revenue we can also protect it, by acting on time.

Firstly, with automated smoke tests we are very sure of a reduced downtime from a deploy-related crash or major bug, we all know how bad a company looks when their downtime lasts for a while, we have this in place to protect our revenue not just our revenue but our reputation as a company.

Furthermore, with automated rollback triggered by job failure, we have the power to rollback a new feature or new version, during production. We can't dispute that failures occur but we can undo that using the automated rollback, no downtime everything is working as expected. By doing this we are protecting our revenue



Benefits of CI/CD

- How do we reduce cost or avoid cost using CI/CD ?

Firstly, after a successful deployment of new feature or a new version we use automated infrastructure cleanup, this removes unused resources from our infrastructure. This reduces cost because we are only paying for what's in use.

Secondly, CI/CD helps detect security vulnerabilities, this helps prevent embarrassing or costly security holes, security is paramount to us as a team, we don't want to have loopholes that subject us to attack, we avoid cost by detecting and fixing all security vulnerabilities.

Furthermore, we automate infrastructure creation to avoid cost, there is less human error and we also achieve faster deployments, this automation also saves time.

Finally, I strongly believe we can achieve a lot as an organization if we can embrace this method of CI/CD.