

CI/CD benefits

One of the first benefits of implementing CI/CD is reduced risks. Not fixing bugs and issues means delayed production which in turn is missed revenue or unhappy customers. Having well implemented CI/CD pipeline helps to fix issues quickly and deploy code more frequently. It gives testers the ability to detect issues quickly and gives a chance to fix them immediately.

CI/CD also helps organizations to make multiple feature releases multiple times in a day. The ability to build, test and deploy with almost no manual intervention makes it possible to deliver faster. Faster delivery means reduced cost and increase in revenue.

Manual implementations are mostly prone to errors and mismanagement. This in turn will result in delayed releases and unnecessary costs. With CI/CD being fully automated, it can avoid all the issues happening with manual processes, can increase quality, speed of release and can build confidence among development teams and also end users and stakeholders.

Critical issues and deployment mistakes can happen all the time. Not getting back online or not being able to restore earlier production state is a big loss in revenue. It's very critical to revert the previous state of production whenever current releases have an issue. One of the biggest advantages of a CI/CD pipeline is you can roll back changes quickly. If any new code changes break the production application, you can immediately return the application to its previous state. Usually, the last successful build gets immediately deployed to prevent production outages.