CI/CD for UdaPeople

Benefits of Automating Deployments

What is CI/CD?

CI – merging all developers code to a shared mainline.

CD – value is delivered through automated deployments.

- ✓ Continuous Integration (CI) and Continuous Delivery (CD) are a set of practices that application development teams use to deliver code changes more frequently and reliably.

- ✓ By automating integration and delivery, CI/CD lets software development teams focus on meeting business requirements while ensuring code quality and software security.

What CI/CD has to offer.

- Automate infrastructure creation

- Automate infrastructure cleanup

- Faster deployment productions

- Detect security vulnerabilities in your infrastructure

- Catch unit test failures

Business Value

- By automating deployments of your infrastructure, deployments are fast and there is less human error, thereby avoiding costs.

- The testing time for deployed code (applications) is reduced greatly because CI/CD is able to catch any failed tests quickly. This also helps in avoiding costs.

- Automating the cleanup of your infrastructure reduces costs because any unused resources will be removed immediately.

Business Value cont.

- There is increased revenue when deployments are faster and more frequent. This will enable developers to focus more on creating value-generating features that will be released quickly and leave the rest to CI/CD.

- CI/CD is quick to detect any security vulnerabilities in your infrastructure once it has been deployed. This avoid costly security holes and keeps the business' reputation intact. It's embarrassing if a company can't handle the security of it's operations.

- The time to market is low because the business will deploy to production without worrying about manual checks. This will ensure that the business stays at the top of their competition.

What it translates to

- Productivity
- Speed
- Consistency
- Innovation

With CI/CD in place, there's less testing time, less time to market, and the speed of deployments is also increased. All this translates to reduced costs, increased revenue, protection of revenue and ultimately, avoiding costs.