CI / CD for UdaPeople product.

Why we need CI / CD (continuous integration / continuous deployment).

Thomas Benedek / 12th May 2021

Reduce costs.

How CI / CD helps to reduce costs for our UdaPeople product

- Compile Errors will be reduced after merging our code from several developers -> we will spend less time and money on issues for new developer code.

- Finding errors earlier in the development process -> we will use less time and money in identifying errors in and testing for our product

- CI / CD gives us the opportunity to reduce infrastructure cost by automating infrastructure cleanup and therefore

Avoid additional costs.
How CI / CD helps to avoid additional costs for infrastructure.

- Less bugs in our product and less time for testing with usage of automated and frequent / continuous unit tests avoids costs for testing and fixing

- Automated testing of security vulnerabilities prevents us from embarrassing or costly security holes

- Automating Infrastructure Creation leads to less manual errors and faster deployments avoiding costs for human interaction

Increase value

How CI / CD helps to increase the value of the UdaPeople product

- Faster and more frequent production deployments aids in releasing new value-generating features more quickly and therefore increasing product value

- Deploy to production without manual checks using CI / CD reduces our time to market and helps to deliver feature more quickly

- Having confidence in our product development and delivery process makes it much easier to deliver new features without having to take a big risk of unstable services

Protect value

How CI / CD helps to protect the value of the UdaPeople product

- Automated smoke tests reduces the downtime of our services (e.g. from a deploy related crash or a major bug)

- Automated rollbacks (triggered from a malicious deployment) can be quickly performed and therefore don't harm our customer

- Our blue / green deployment strategy gives us the opportunity to introduce new feature in a safe manner so we do not risk crashing our current valuable services of our customers. We can test new features without harming our customers.