



Implementing Continuous Integration/Continuous Deployment

UDAPEOPLE

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EXECUTIVE SUMMARY

This document intends to suggest the adoption of Continuous Integration/Continuous Deployment in Udapeople around the software development processes using it Udapeople create more values for both internal and external stakeholders as well as saving costs.

The suggestion is a strategic movement which allow us to delivering features (to our clients), reducing infrastructures costs and minimizing production incidents through harnessing the power of the cloud.



Introduction

The core of Udapeople is the team and the clients, day to day we work hard to be more efficient and to deliver our services to our clients in the best possible way, based on the above we propose start to using DevOps in our daily, because it will allow us to optimize the software development process (from requirements to the use of the clients), reduce IT costs and provide our new services to our clients.

The use of DevOps will produce competitive advantages among our competitors, because will prevent software errors and will enable us to deliver our promise of value to our clients diligently.

Goals of the project

1. Reduce infrastructure cost
2. Reduce production issues (and his costs)
3. Reduce time for delivering new features to our clients
4. Increase revenue due to more features will solve more client problems
5. Significantly reduce deployment time, cause the process will be automated (currently is manual – error prone)



Quantitative business goals

1. Reduce infrastructure costs by 5% to 15%
2. Reduce deployment issues by 70%
3. Increase revenue by 6%
4. Guarantee 99% availability in the software
5. Increase available human-hour by 30% for senior developers





Costs and required changes

The cost related to the implementation are:

1. Three (3) months of training in DevOps, related to the following technologies:
 - a. Amazon Web Services (AWS)
 - b. CircleCI
2. Allow better communication between development and operations
3. Strengthen software testing team with two (2) more semi-senior members

Thank you

