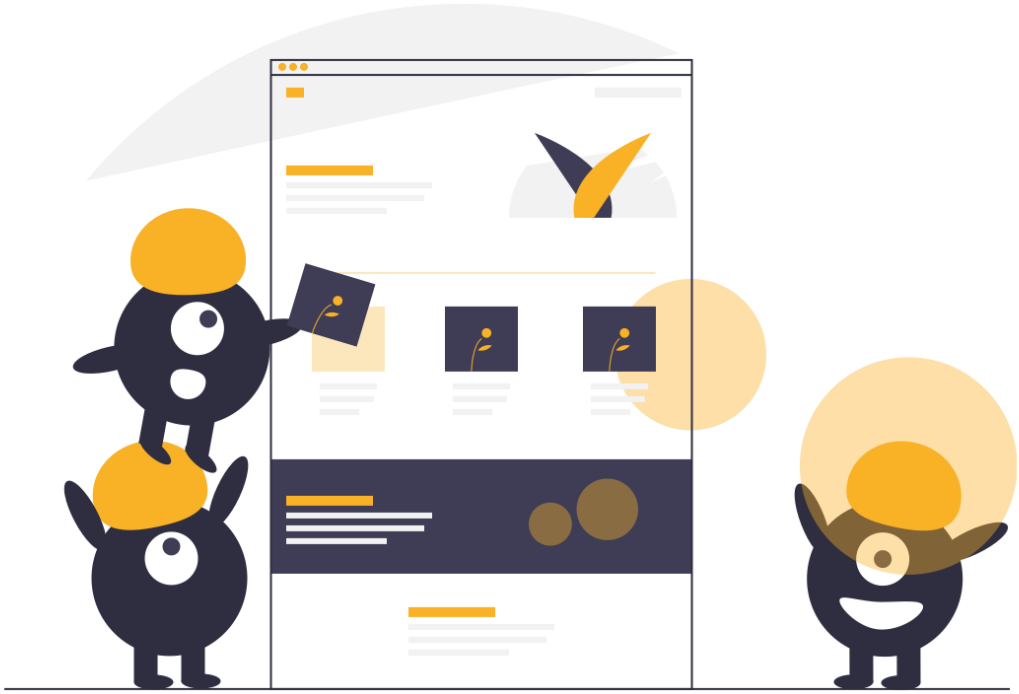
UDAPEOPLE - BUSINESS PROPOSAL

Automation leads perfection

AUTHOR

WA FUNG SEK



EXECUTIVE SUMMARY

This business proposal suggests an adoption of Cloud DevOps in which can provide many benefits for UdaPeople to create more values for both internal and external stakeholders as well as saving costs. The suggestions can be viewed as a strategic move for UdaPeople to focus on delivering features, reducing infrastructures costs and minimising production incidents through harnessing the power of AWS Cloud Services and an automation toolset.

The introduction will begin first, followed by the goals, business objectives, benefits, proposed solutions, costs and conclusion. The benefits outline the primary reasons why UdaPeople needs DevOps, and the proposed solutions will explain how UdaPeople can embrace Cloud DevOps into the current process on high level.

1. INTRODUCTION

This report is a business proposal that will introduce the benefits UdaPeople could receive if we adapt the concept of DevOps for our Cloud-based products.

With the unexpected business environment changes during COVID-19, many businesses need to find ways to reduce costs and increase their efficiency and effectiveness to be able gain the competitive advantages amongst other competitors in this chaotic yet ever-change market.

More importantly, there has been a trend where businesses start adapting the concept of DevOps, which provides many great benefits to empower businesses to achieve more given the scarce resources UdaPeople have for IT development and operation, to increase their competitiveness.

2. GOALS

- Reduce infrastructure cost
- Reduce cost for fixing production issues
- Reduce time for delivering features
- Reduce down time of any infrastructures
- Increase revenue due to more features can be delivered faster
- Increase customer satisfaction
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3. BUSINESS OBJECTIVES

- Maintain 95% of uptime for the availability of the applications
- Reduce infrastructure cost by 5% to 10%
- Reduce production issues by 50%
- Increase revenue by 8%

4. MAIN BENEFITS

4.1 Short development cycles
4.2 Reduce implementation failure
4.3 Reduce costs and staffs

4.1 Short development cycles
The traditional development and infrastructure management processes are slowing down many organisation to deliver features and values at a faster pace. These processes include many manual and risky processes that will be executed in each deployment, and these manual processes can mix with human errors, which can introduce bugs in the production environment and directly impact the customer experience and damage the customer expectation. Using DevOps can drastically shorten the development cycles as many manual processes can be eliminated by automated processes to allow the development and operation teams deliver in a fast way.

4.2 Reduce implementation failure
The manual processes not only slow down the deployment process for each delivery, it also increases the chance to create human errors in creating and maintain infrastructures, and these errors will eventually lead to production defects. Fortunately, Cloud Provider like AWS provides an ability to allow developers to create infrastructure as code, which increase the reliability in infrastructure management.

4.3 Reduce costs
Using Software and Infrastructure as services can vastly increase the scalability of our infrastructure spending as both frontend, backend and network resources can be increase and decrease on demand based on the traffic and necessary need. Moreover, the monitor feature comes with the Cloud Provider can send us a notification if the cost would be exceeding our predefined budget. Furthermore, since this is an infrastructure as code approach, the business no longer requires a dedicated an operational team to manager all the infrastructure work as infrastructure creation and deployment will be automated by the CI/CD Pipeline, so that their time can be freed up and reallocated them to work on development pieces.

5. PROPOSED SOLUTIONS

First of all, we will need to offer a training course to make some of our senior members in our development teams to equip the Cloud DevOps skillset, and then they can schedule a series of technical knowledge sharing sessions to allow everyone in the teams on the same page. Ideally, we want the knowledge to be documented on our technical knowledge base.

Once everyone has the knowledge and mindset about Cloud DevOps, the teams can discuss and decide to select a low-impact application to build a CI/CD Pipeline for a trial run. After that, all the stakeholders should be involved to discuss and identify any improvements as an action item for next round of transformation.

Last but not least, the DevOps transformation should be repeated until each application has the CI/CD Pipeline. More importantly, we also need to strictly require all the members not to make a change manually, which means if the CI/CD Pipeline has an issue stops the entire deployment, the fix of this issue should be the first priority to the team.

6. COSTS

$1,996 USD x 3
Up to 50% off discount can be applied

7. CONCLUSION

To transform the business to fully embrace Cloud DevOps may not be straightforward, but this path seems to be unavoidable as many businesses are walking toward this destination in order to acquire the huge benefits that Cloud DevOps can provide to gain competitive advantage amongst other competitors. Although the entire transformation could take a while, but the outcomes can last for years.