

Udapeople Cost Reduction by Implementing CI/CD

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June 2022



1. Intro

In summary: How do we know Udapeople need CI/CD?

With the current manual process:

- **More time than delivering value**
- **Going through integration hell**
- **Code gets lost because of botched merges**
- **Unit test suite hasn't been green in ages**



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In summary: How do we know Udapeople need CI/CD (Cont'd)?

With the current manual process:

- **Deployments contribute to schedule slip**
- **Friction between ops and dev departments**
- **Only one engineer can deploy**
- **Deployments are not cause for celebration**

Cost related to non-CI/CD

- It's now become a recurring issue that it has become difficult and tedious process to achieve, build, and deploy for cloud-based software products and as a result revenue is declining
- It is a recurring issue for development and operations team to integrating new code and this become reason for missed sales opportunity.
- New feature release is taking so long and creating missed revenue
- Deadlines are missed due to longer development, testing and release time which result in missed revenue..

Cost related to non-CI/CD (Cnt'd)

- Code conflicts, loss of application functionality, loss of work, increased in testing efforts, as well as frustrated developers and project managers result in decline in production quality and increased overall cost.
- As a result of recurring project off-schedule and fail altogether - resulted in unhappy clients
- Unclear testing responsibilities, inadequate test resources, and infrequent communication often cause applications to be delivered with defects – which is a major cause for unhappy users and reduced revenue.



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Wish lists for Udapeople after CI/CD

- Smaller code changes and error isolation - increased revenue
- Reduced deploy errors - less costly
- More reliable tests and faster release rate - increase revenue
- Increase accountability and transparency - increased productivity



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Wish lists for Udapeople after CI/CD (Cont'd)

- **Smaller backlog - faster release - increase in revenue**
- **Faster error resolution time - reduced cost**
- **Customer as well as team satisfaction - high revenue**
- **Easy maintenance and updates**
- **Overall reduction in cost and increase in production and revenue.**