CONTINUOUS DELIVERY WITH JENKINS

ABSTRACT

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***K*eywords** Jenkins, Kubernetes, Terraform, DevOps, Docker · Container

Plan

Main references are [1] and [2].

You need to reproduce the results from [2] as a first step and improve there onwards.

1. Timelines:
   (a) Installation / Setup: 2nd July
   (b) Till optimization task: 15th July
2. Finalization of technology framework and version
3. Installation
4. Finalize the operations you want to test
5. Architecture
   (a) Total project architecture
   (b) Resp. technology detail architecture related to the present project
6. Performance metrics and results
7. Optimization techniques to respective technology
8. Recommendations
9. Conclusions

1 Introduction

1. Execute all the steps with available tools in AWS
2. Execute all the steps with open source tools
   (a) Build Docker image
   (b) Upload above Docker image to AWS location (cloud)
   (c) Deploy the solution in cloud

1.1 Jenkins Vs. Competitive Tools

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1.2 Literature Survey

1.3 Metrics to be tested

2 Architecture

3 Performance Results

3.1 Performance Test Procedure

3.2 Results Analysis

3.3 Recommendations for Best Performance

4 Conclusion

Acknowledgement 4.1

References

[1] Mohamed Labouardy. *Pipeline as Code: Continuous Delivery with Jenkins, Kubernetes, and Terraform*. Manning, 2021.

[2] Sriniketan Mysari and Vaibhav Bejgam. Continuous integration and continuous deployment pipeline automation using jenkins ansible. In *2020 International Conference on Emerging Trends in Information Technology and Engineering (ic-ETITE)*, pages 1–4. IEEE, 2020.