

Microservices in a DevOps context

A review of “A Systematic Mapping Study on Microservices Architecture in DevOps”

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Abstract

Short abstract about the goal of this paper. It should summarize the topics briefly and explain the sections very shortly.

1 Introduction

Describe the goals of the paper. Give an example why DS & ESE is relevant in research.

1.1 Design Science

Describe what "Design Science" means and how it contributes to the topic.

1.2 Empirical Software Engineering

This section will also introduce terms like "SMS" "SLR" "SGLR", and the general definition of "Empirical Software Engineering".

1.3 Microservices and DevOps

Introduce terms like "MSA", "microservice" and "DevOps" so everybody is on the same page about those terms.

2 Summary of Waseem et al.

This section does summarize the goal, idea and result of the paper. This part will be a neutral summary. Give an abstract about the paper of [WLS20].

2.1 Motivation

Describe and analyze the motivation of the researcher group that made the SMS.

2.2 Methodology

Analyze and summarize their methods. Describe the process they used and the additional changes they made to conduct their SMS. TODO: maybe some references to their research questions

2.3 Results

Summary of the results of the paper.

2.4 Discussion

Summary of the given "discussion" in the paper.

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2.5 Threats to validity

Summary of their threats to validity.

2.6 Conclusion

Summary of the given conclusion.

3 Review of Waseem et al.

3.1 Empirical Research Methods

Approval / Disapproval in the used methods and how they were applied to the study. Question the decision to limit the search to the year 2018.

3.2 Research Questions

Analyze the research question and may give feedback or alternatives to them.

3.3 Results and Discussion

Give feedback to the compiled results and the discussion that followed that results.

4 MSA in DevOps

Give an opinionated statement about what MSA in DevOps is and how the study does support this topic. Add references to gitops as a modern idea on how solve some problems (because they weren't in the search params?)

TODO: find papers about day1/2 optimization

TODO: find papers about gitops

5 Conclusion

Give the conclusion to the review of [WLS20].

References

[WLS20] Muhammad Waseem, Peng Liang, and Mojtaba Shahin. A systematic mapping study on microservices architecture in devops. *Journal of Systems and Software*, 170:110798, 08 2020.