

Can big data systems benefit from microservices patterns ?

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1 Research components:

1. Systematic literature review (following the guidelines of PRISMA and Barbara An Kitchenham)
2. Improved searched strategy by using PRISMA-S
3. Thematic synthesis using Cruzes, D. S. & Dybå approach
4. Capturing microservices patterns following the TOGAF template
5. Understanding the current state of big data architectures
6. Mapping the microservices patterns against big data architectures and see if they can solve some of its issues
7. Discussion
8. Threat to validity
9. Conclusion and further research

2 Timeline:

- two systematic literature review - 1 month (end of June) 6th June - 6th July
- Thematic synthesis (1 week) - 6th July - 13th July
- Capturing patterns in the synthesis (1 week) - 13th July - 20th July
- Critical discussion (1 week) - 20th July - 27th July
- Polish and final edits (1 week) - 27th July - 3rd August

3 Hard Deadlines:

- IEEE Big Data - Aug 20, 2022