The Essential Deployment Metamodel: A Systematic Review of Deployment Automation Technologies





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Declarative Automation of Deployments



Challenges

- Difficult to compare technologies by their modeling capabilities
- Challenging to choose an appropriate technology upfront
- Migration is challenging: applications are in constant change
- Impede systematic deployment automation research

\rightarrow Systematic analysis of deployment technologies

- \rightarrow Distilling the essential parts of declarative deployment technologies
- → Essential Deployment Metamodel (EDMM)







Essential Deployment Metamodel (EDMM)





Conclusion & Future Work

- Technology Categorization & EDMM Mappings:
 - EDMM provides common understanding of declarative deployment technologies
 - Supports decision making processes when selecting an technology
 - Supports and eases migration processes
 - Supports researchers to evaluate concepts
- \rightarrow EDMM as technology-agnostic application deployment modeling
- \rightarrow EDMM to technology transformation



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