Model-Driven Policy Framework for Data Centers

Data Centers (DCs) continue to become increasingly complex, due to comprising multiple functional entities (e.g. routing, orchestration). Managing the multitude of interconnected components in the DC becomes difficult and error prone, leading to slow service provisioning, lack of QoS support, etc. Moreover, the lack of simple solutions for managing the configuration and behavior of the DC components makes the DC hard to configure and slow in adapting to changes in business needs. In this paper, we propose a model-driven framework for policy-based management for DCs, to simplify not only the service provisioning but also the configuration management of the various DC components. The implemented prototype is presented and a series of tests are performed to assess its performance and to gain key insights about policy based management.

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