Chair of Communication Networks
TUM Department of Electrical and Computer Engineering
Technical University of Munich

Master's Thesis

Dynamic Assignment and Reconfiguration of Hypervisors in vSDN

Introduction to Software Defined Networking (SDN) and Network Virtualization paradigms has brought new challenges to tackle. In this environment, network switches communicate to SDN controllers through a hypervisor. Therefore, considering a network graph, three questions may come up: 1) Where to deploy SDN controllers? 2) Where to deploy SDN hypervirors? 3) How to connect network switches to the respective SDN controllers to meet the traffic dynamicity and QoS requirements?

In this work, we plan to design and evaluate an optimization framework to optimally answer the above questions.

Prerequisites

Mathematical Optimization, Algorithms, Java / Python

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