FogFaas

A faas extension of SecFog

Laboratory for Innovative Software

A. Y. 2019/2020

1 Introduction

2 In class work

3 Extensions

3.1 Communication between services

In order to represent communications between services in a realistic way, we opted for a two level representation:

- At a lower level, physical links are represented as bidirectional links. This makes a little more complex the findRoute predicate, but also carries an advantage in representing the infrastructure, as we don't need to specify that a link exists in both direction: this is always assumed to hold.

- At a higher level, channels between services are assumed to be monodirectional. This seemed a reasonable choice, as channels are language constructs which allow the user to say "I want service X to send messages to service Y", embedding this information in a service definition.

3.2 Extension of Tau

3.3 Type system

3.4 Trigger modelling

4 Putting it all togheter

5 Conclusions and future work