



SPACE4Clouds: a
DevOps Environment for
multi-Clouds Applications



### Motivation

- Applications have grown in size and scope
- The rise of Cloud computing
- Need for quality-assurance
- DevOps philosophy

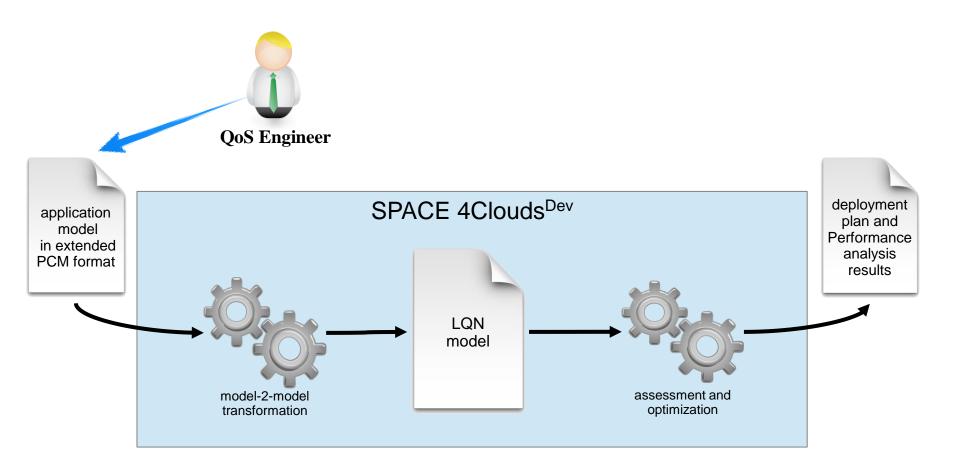


#### **SPACE 4Clouds**

- What is SPACE 4CLouds?
- The MODAClouds project
- Composed of two main tool
- Developed in Java under Apache 2.0 license

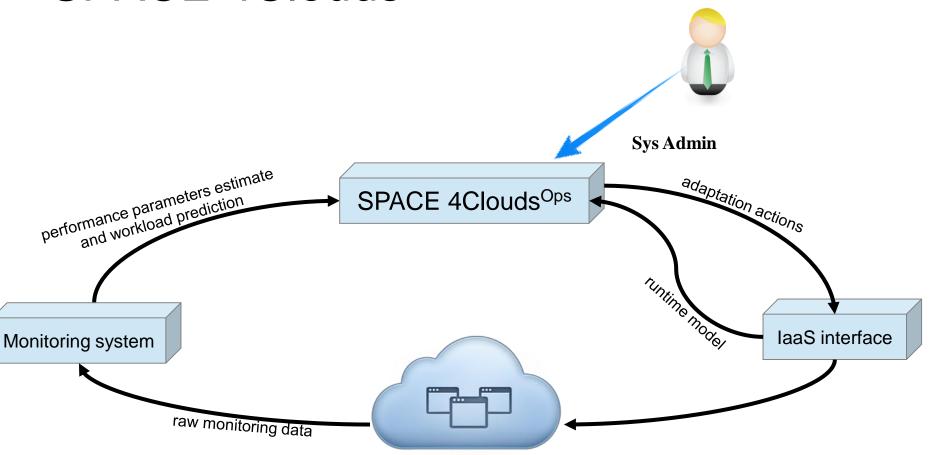


## SPACE 4Clouds Dev



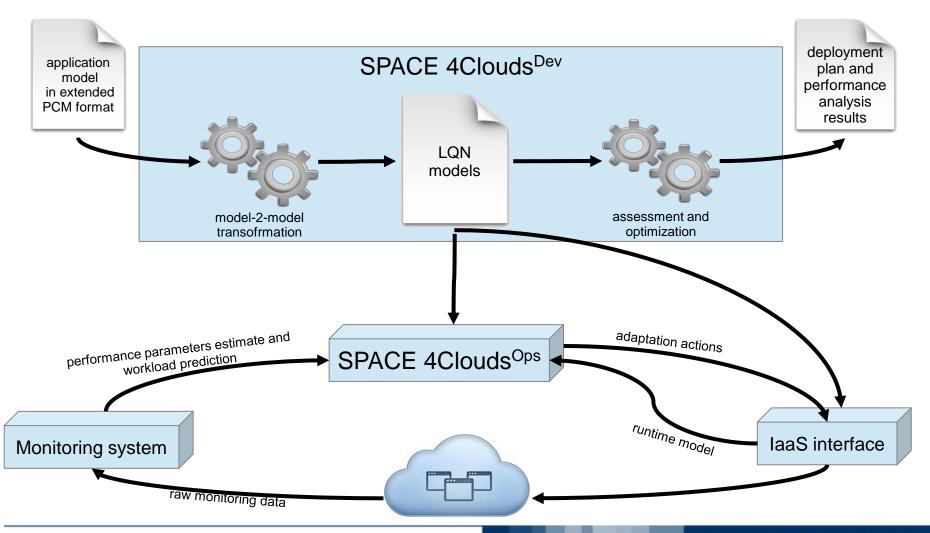


## SPACE 4Clouds<sup>Ops</sup>



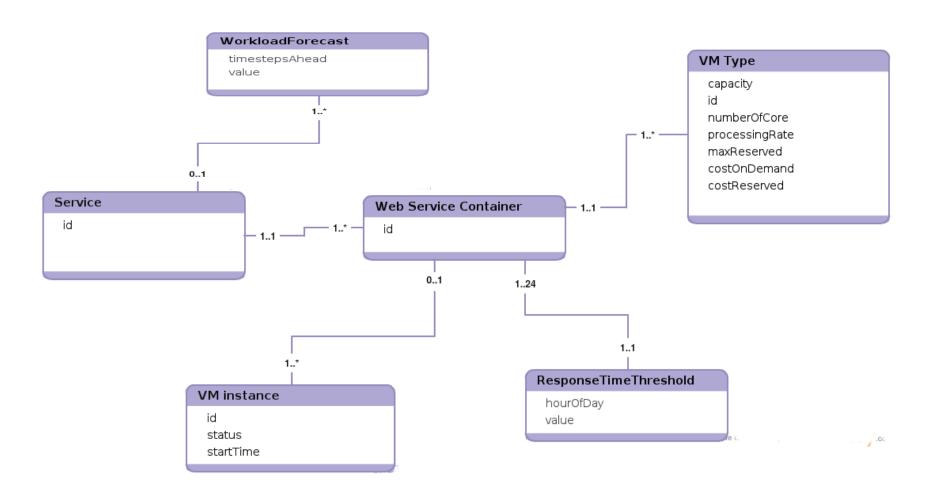


## DevOps Environment



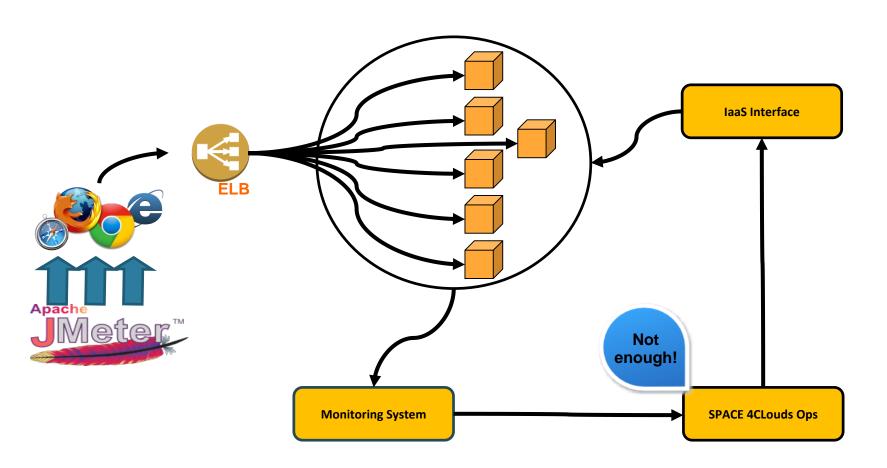


# The adaptation model



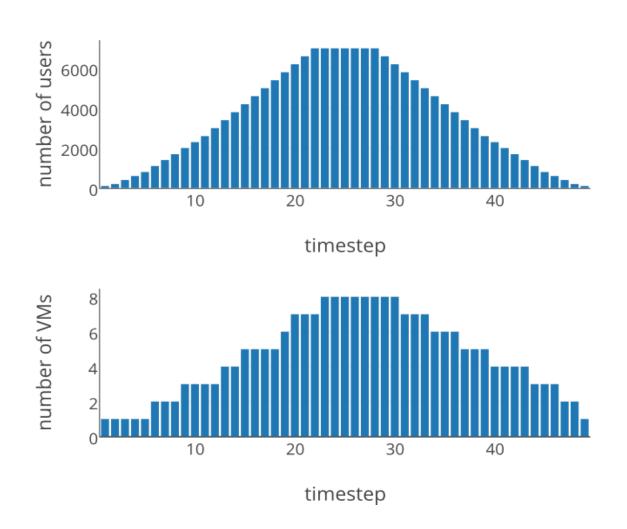


# Design of the Experiments





## **Proof of Effectiveness**





#### Conclusion and future works

- A joint DevOps environment for qualityaware Cloud applications
- Future works:
  - 1) More performance analysis
  - Management of PaaS platforms and multi-Cloud applications
  - 3) Feedback mechanism
  - 4) Toward the DICE project



# Request for feedback & a provoking question

- How to correctly set up multiple components time-scales?
- Is Cloud just Ops? How much do design time decisions impact on runtime performance and costs?

