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Clément Quinton, Daniel Romero, Laurence Duchien

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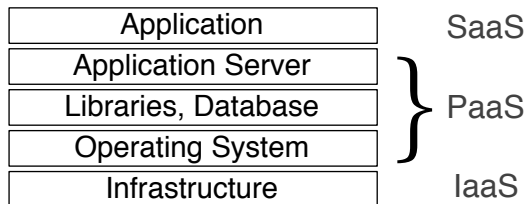
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SALOON, a Platform for Selecting and Configuring Cloud Environments

Clément Quinton, Daniel Romero, Laurence Duchien
Inria Lille-Nord Europe, Université Lille 1, LIFL UMR CNRS 8022

Context

Cloud computing has recently emerged as a major trend in distributed computing. This layered model enables the configuration of many computing resources that can be provisioned to support the deployment of applications, provided as Software-as-a-Service (SaaS). Many cloud providers, either at Infrastructure (IaaS) or Platform (PaaS) level, propose different services and pricing models.



Problem Statement

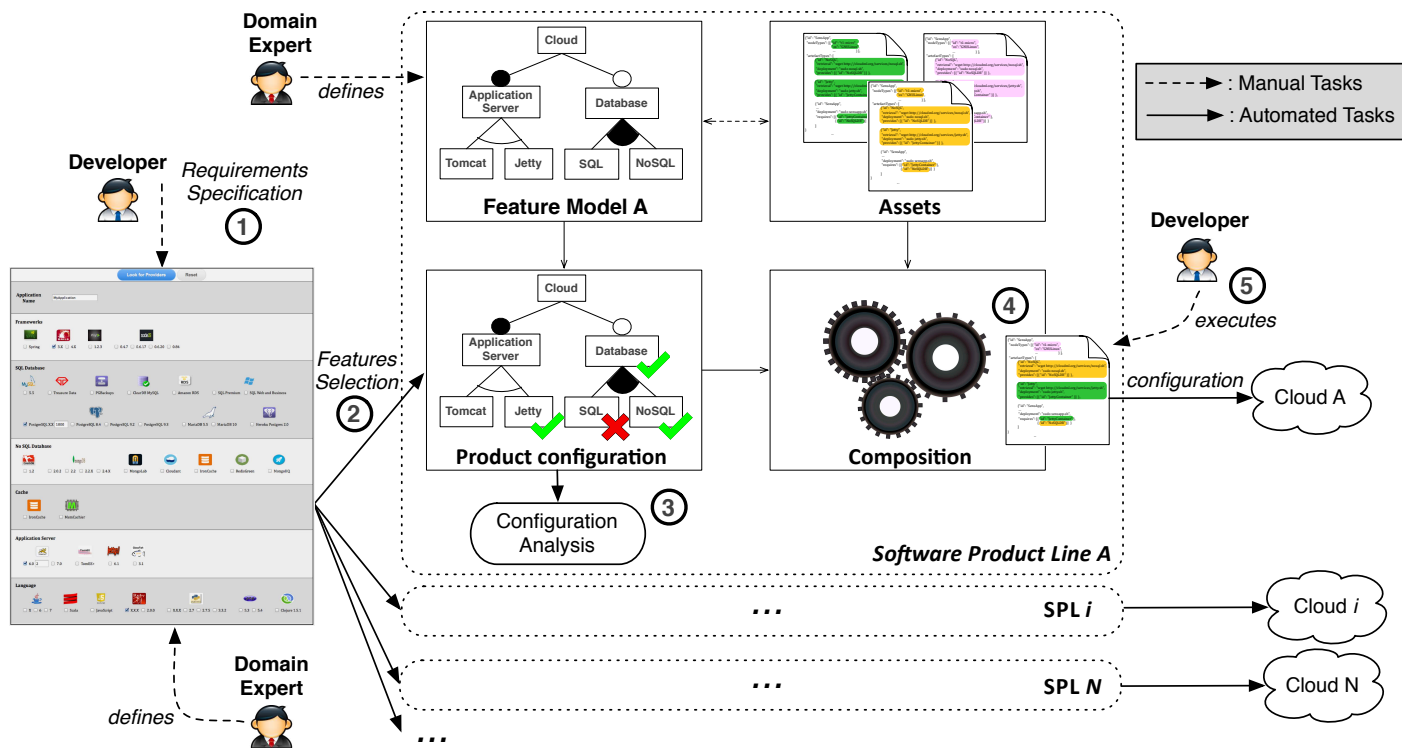
- Which cloud environment...
IaaS, PaaS
- ... based on which criteria?
Price, performance, reliability...
- How to configure?
manually ⇒ error-prone



Challenges

- C_1 : find an environment providing all functionalities required by the application to run properly and that is suitable regarding non-functional requirements for these functionalities.
- C_2 : find a correct configuration of this environment regarding the set of functionalities provided according to C_1 .
- C_3 : ensure a reliable way to configure the cloud environment.

SALOON



Perspectives

- Evolution of the platform
- Dynamic Software Product Lines
- Multi-Cloud deployment

References

Automated Selection and Configuration of Cloud Environments Using Software Product Lines Principles. Clément Quinton, Daniel Romero and Laurence Duchien. In *Proceedings of the 7th IEEE International Conference on Cloud Computing, CLOUD'14*. Anchorage, USA. Acceptance rate: 20%.

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