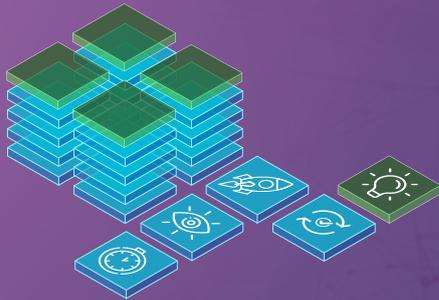




SmartIDE
MODELLING AND IDE



Lead Partner:



Contributors:



Modelling applications with SODALITE

Nowadays, the rise of new technologies and the digitalization of firm-related processes are highlighting the need of managing applications over heterogeneous infrastructures. SODALITE address this challenge providing an integrated environment for developers to model complex application deployment schemes.

Heterogeneity of Programming Environments

Graphical Editors

Current state of the art graphical editors requires skilled users to cover the lack of semantic reasoning to model application topologies and infrastructure resources. Integrating semantics within a simple IDE allow non-expert users to easily model topologies based on suggestions and proper validation procedures.

TOSCA Descriptors

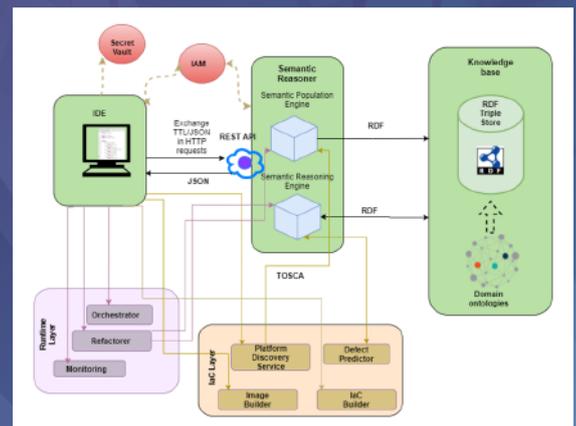
Interoperability and abstraction of the underlying infrastructure is a real need when developing applications that can be deployed over heterogeneous infrastructures. Semantic reasoning for developing an abstraction layer for TOSCA-compliant descriptions is not currently available simplifies developers work while developing this kind of applications.

Runtime Support

Programming environments usually provide support at design phase while development process is in place. However, there is a lack of further assistance at runtime phase to improve application performance. This increases the time invested in early stages of the application lifecycle as optimization models are not available.

How It Works

SmartIDE provides an integrated programming environment for developing applications to be deployed over heterogeneous infrastructures. Through the DSL editor, complex application deployment models can be developed, assisted by the Reasoner which provides recommendations and validations, taking into account additional considerations such as performance and security. In this way, modelers, even less experienced ones, are able to develop applications to be develop using more complex deployment schemes without increasing the learning curve.



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