Abstract

Cloud computing is a promising computing paradigm wherein the resources are made available to the clients as services, over high bandwidth networks. Cloud SaaS refers to a cloud computing service model in which the software applications are offered as services. These cloud software applications may require interacting with each other in order to accomplish a
A Model-Driven Approach to Cloud SaaS Interoperability

Thus, interoperability among services is an important issue for consideration in cloud computing. With the hardware and software technologies constantly evolving at a tremendous pace, the IT industry is persistently faced with the challenges of technology obsolescence. These changing technologies have more serious consequences in B2B context. Therefore, it becomes essential to promote a technology-agnostic software development approach that could alleviate the undesirable effects of technology change. In this perspective, Model-driven Architecture (MDA) becomes a preferred methodology for developing cloud software services. This paper presents an MDA-based model-driven approach to develop cloud software services and exhibit interoperability between them.

Reference

- Cloud Computing and SOA Convergence in Your Enterprise, http://searchsoa.techtarget.com/generic/0,295582,sid26_gci1375000_mem1,00.html
- OMG’s Meta Object Facility http://www.omg.org/mof/
A Model-Driven Approach to Cloud SaaS Interoperability


Index Terms

Computer Science
Cloud Computing

Key words

Platform Independent Model
Platform Specific Model

Meta model
Web Service
WSDL
SOA