

**Title:** Mantus - Putting Aspects to Work for Flexible Multi-Cloud Deployment

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**Abstract:** Cloud provider barriers still stand. After a decade of cloud computing, customers struggle to overcome the challenge of crossing multi-provider clouds to benefit from fine-grained resource distribution, business independence from CSPs and cost savings. Remaining hurdles include complexity of management and operations of such infrastructures.

The Infrastructure as Code (IaC) paradigm is emerging as key enabler for IaaS multi-clouds, to develop and manage infrastructure configurations. However, due to complexity of the infrastructure life-cycle, to heterogeneity of composing resources and to user-customizations, this approach is far from being viable.

In this presentation, we explore an aspect-oriented approach to IaC deployment and management. We present Mantus, a IaC-based multi-cloud builder composed of an aspect-oriented Domain-Specific Language called TML, or TOSCA Manipulation Language, and a corresponding aspect weaver to inject flexibly non-functional services in TOSCA infrastructure templates.

