



Model Based Cloud Platform Upperware

Define your application once

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Deploy it at the full spectrum of the
Clouds

The pain

- *Many different* Cloud platforms
 - APIs and architectures are not standardized
 - Interdependence between the application and the Cloud platform
 - Lacking support & tools for:
 - analyzing and porting existing applications
 - application deployment and execution without vendor lock-in
 - Missing approach for abstracting technical specific details
- *Developing once and deploying on many Clouds is not the reality today*

Opportunities

- Great variety of cloud services
 - Opportunity for cross-cloud application provisioning
 - Select the best cloud services for user application based on user requirements
 - Avoid vendor lock-in
 - Cater for better security capabilities
- Model-driven approach
 - Automation of multi-cloud application lifecycle activities

PaaSage is

- an open and integrated **platform** to support both design and deployment of Cloud applications
- an accompanying **methodology** that allows model-based development, configuration, optimization and deployment of existing and new applications

PaaSage is independent of the existing underlying Cloud infrastructures



PaaSage Features

- Open-source, extensible and modifiable
- Modelling of many application aspects
- Multi/cross-cloud application deployment
- Cloudbursting support
- Deployment optimisation based on user quality, location & hardware requirements
- Application re-configuration based on scalability rules & global-based adaptation





Metadata sharing

Social network

Cloud-based application

CAMEL

- Provisioning and deployment requirements
- Scalability rules
- Service-level objectives
- (User-specific) Provider models

Design-time optimisation loop

PaaSage platform

Profiler

Reasoner

Adapter

Metadata

Run-time optimisation loop

Metadata collection

Execution control

Execution monitoring

Platform specific mapping

Execution environment(s)

Tutorial Scope

- **Coverage**
 - Focus on how to use the PaaSage platform to achieve multi-cloud application deployment as well as share knowledge
 - Training over respective tools & entry points of the platform
- **Non-Coverage**
 - Technical Details about each multi-cloud application lifecycle activity



Tutorial Outline

- Training sessions:
 - Application modelling with CAMEL
 - Social Network & Platform Usage
- Discussion & Conclusions



Feedback

- Please fill-in questionnaire handed over
- Please use the Social Network as an entry point to the platform
- Please check the Platform when fully realised
 - Currently under development
- Any kind of feedback is more than welcome
- Project can be contacted at: info@paasage.eu

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<https://www.linkedin.com/groups/4841532/profile>
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Further Information

- PaaSage Web Site: www.paasage.eu
 - Success Stories, Training Materials, Deliverables & Publications
- Download & Install PaaSage:
 - https://tuleap.ow2.org/plugins/git/paasage/paasage_one_click_install

