Manage Everything as a Service

on clouds with Eclipse Modeling tools

Faiez Zalila

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Cloud computing
Context but problems

How to deal with **interoperability** in Cloud Computing?
How to manage **Everything as a Service** in the clouds?
Multi-Clouds Issue

API and Format Heterogeneity

Amazon
Google
OpenStack
...

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Multi-Clouds with OCCCIware

Open Cloud Computing Interface (OCCI)

OCCCIware Runtime

Amazon

Google

OpenStack

...
OCClware Product

OCClware Studio
Design, Verify, Simulate & Develop
Everything as a Service

OCClware Runtime
Deploy, Execute & Manage
Everything as a Service

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OCClware approach

- OCCI Core model
- OCCI extension
- OCCI configuration

- Ecore metamodel
- M3: MetaMetaModel
- M2: MetaModel
- M1: Model
- M0: real world

- OCCIware metamodel
- OCCI extension metamodel
- OCCI configuration model

- Open Cloud Computing Interface (OCCI)
- Eclipse Modeling Framework (EMF)
OCCLware approach

1. Define
2. Generate
3. Complete
4. Define
5. Generate
6. Generate
7. Execute

- OCCLware Architect
- OCCLware Developer
- Cloud user (System Engineer)

Interacts

Design phase

Use phase
OCCI: Open Cloud Computing Interface

OCCIware Studio Product Line

OCCI Studio
- OCCI Designer
  - OCCI generator
  - OCCI connector

Docker Studio
- Docker Designer
  - Docker generator
  - Docker connector

IaaS Studio
- IaaS Designer
  - IaaS generator
  - IaaS connector

Roboconf Studio
- Roboconf Designer
  - Roboconf generator
  - Roboconf connector

X Studio
- X Designer
  - X generator
  - X connector

OCCIware

Targeted Market
Docker Studio

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OCClware
To be continued…