

ConPaaS: an integrated runtime environment for elastic Cloud applications

www.conpaas.eu

Guillaume Pierre (Univ. Rennes 1) Thilo Kielmann, Emanuele Rocca, Kaveh Razavi, Bert IJff, Hector Fernandez, Renato Figueiredo, Alexandru Uta (VU University)
Ana-Maria Oprescu (Universiteit van Amsterdam) Thorsten Schütt, Michael Berlin (Zuse Institute Berlin) Matej Artač, Aleš Cernivec (XLAB)

Problem

Deploying toy applications in the Cloud is easy.
What about **mission-critical applications**?

- Capacity control
- Cost control
- Fault-tolerance
- Deployment
- Automated reconfigurations
- Software upgrades

Building everything yourself is feasible
but **time-consuming** and **error-prone**.

Solution

ConPaaS is an **integrated PaaS solution**

- A broad range of elastic services
- Automated performance control
- Resource provisioning
- Configurable and extensible platform
- Runs on public and private Clouds
- Open-source
- No lock-in

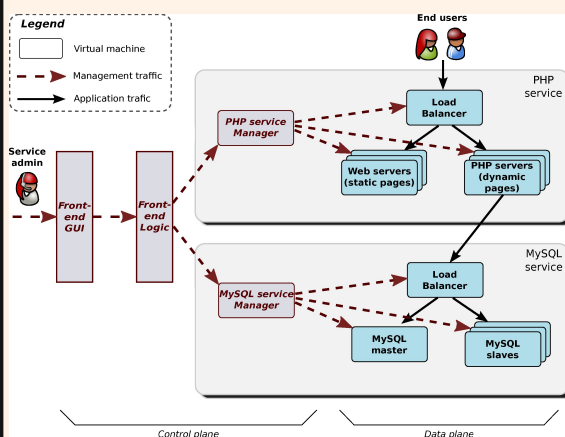
Upload your application and relax.
ConPaaS will take good care of it.

ConPaaS services

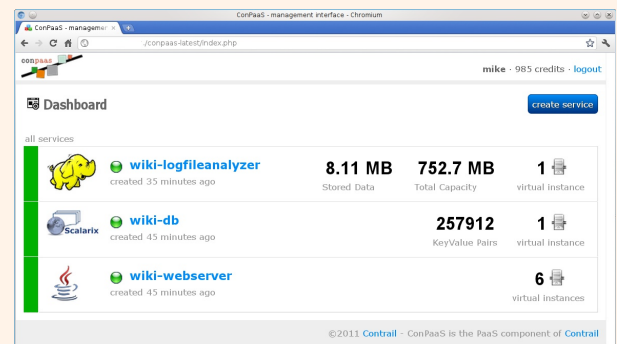
- Web applications (PHP, Java)
- MySQL, XtremFS (cloud file system)
- MapReduce
- Task Farming
- Scalarix (key-value store)
- Add **your own service** to the list?

All services are **fully elastic** and **self-managed**

ConPaaS application architecture



The Web frontend



 We eat our own dog food!



www.conpaas.eu runs ConPaaS.



Software availability

- Releases available: <http://www.conpaas.eu>
- Test our technology yourself!
 - No software install required
 - <http://online.conpaas.eu>

COMMIT/

contrail
open computing
infrastructures
for elastic
services

This work is partially funded
by the FP7 programme of the
European Union under grant
agreement FP7-ICT-257438.

