nteroperability **Portability**



Creating Open Cloud Pier an open source multi-cloud application manager for PaaS

Concertation Meeting - E2 Software & Services, Cloud Computing |
Towards an interoperable European Ecosystem of services

www.cloud4soa.eu







Platform as a Service:

Novel paradigm that enables Software Developers to create (develop or integrate), deploy, execute, and manage business applications, using a service provided by third party (SaaS fashion).

Young and fragmented market:

The actual PaaS market is, quite young, chaotic and highly fragmented, dominated by a few providers which use and promote their incompatible standards and formats

Vendor Lock-in and Adoptions barriers

Cloud solutions lock customers in a single platform preventing the portability of data and software;

Interoperability and portability are a few of the main challenges to adoption of Cloud Computing



Duration: September 2010 – August 2013

Total cost/EC contribution: 4.13 M / 2.73M Euros.

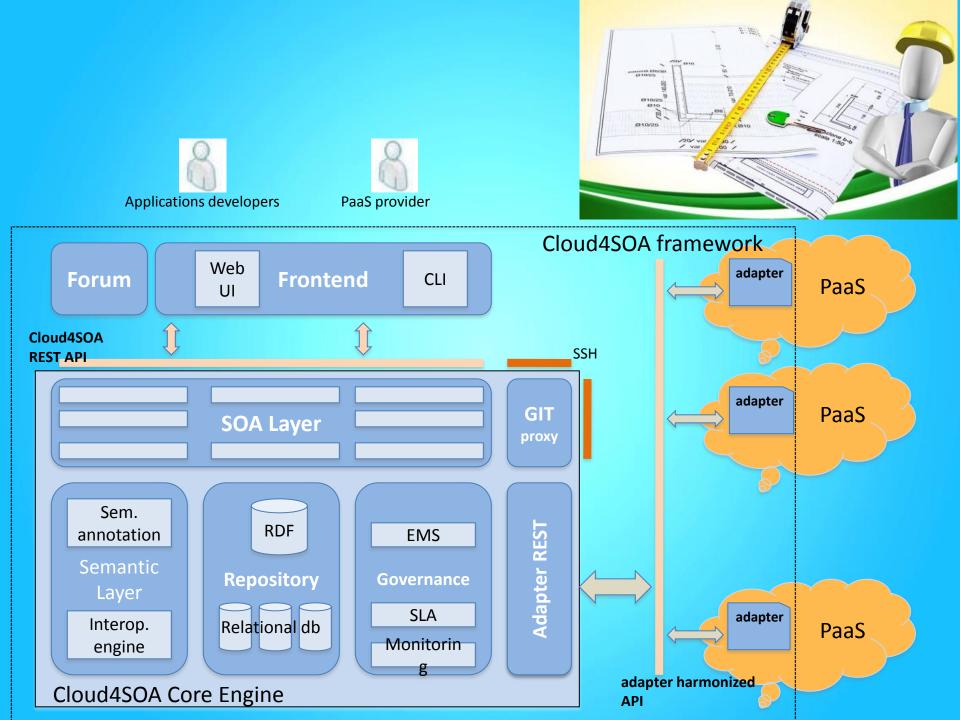
Website: http://cloud4soa.eu; http://opencloudpier.com



The Cloud4SOA provides a set of tools to support Cloud-based application developers with multiplatform matchmaking, management, monitoring and migration by semantically interconnecting heterogeneous PaaS offerings across different providers that share the same technology.

Cloud4SOA facilitates the access and lifecycle management for Cloud-based application developers to the PaaS offering that best matches their computational needs.





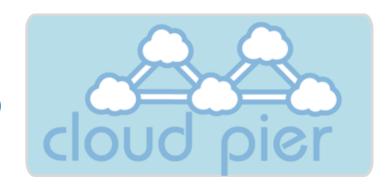


OASIS Cloud Application Management for Platforms (CAMP)

from...



...tc



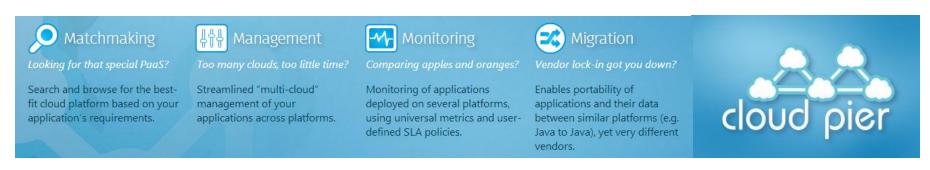
Cloud4SOA created 'Adapters' for 6 PaaS providers: AWS Beanstalk, Cloudbees, Heroku, CloudControl, CloudFoundry & OpenShift → Experience in existing diversities

A common API is already formulated that covers the needs of these 6 → Act as Validation for a possible RI

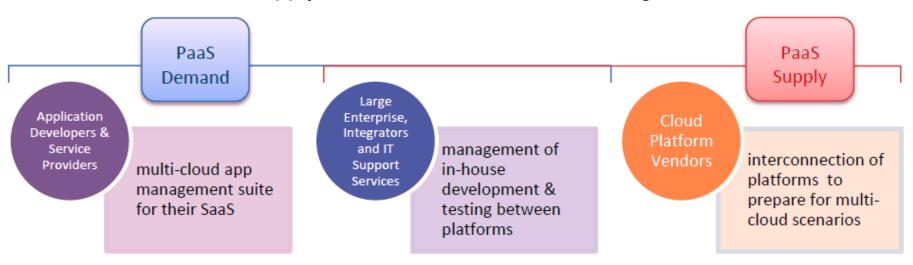
Cloud4SOA Capabilities	AWS Beanstalk	CloudBees RUN@cloud	CloudControl	Heroku	CloudFoundry	OpenShift
Matchmaking:						
The criteria and information of the PaaS within Cloud4SOA's matchmaking search.	✓	✓	~	~	✓	✓
Governance						
Deploy	✓	✓	×	×	✓	×
Deploy through GIT	×	×	✓	\	×	✓
Start	✓	✓	✓	\	✓	✓
Stop	✓	✓	✓	\	✓	✓
Delete	✓	✓	✓	\	✓	✓
Create Database	✓	✓	✓	\	✓	✓
Delete Database	✓	✓	✓	\	✓	✓
Import Data to Database*	✓	✓	✓	\	✓	✓
Export Data from Database*	✓	✓	✓	✓	✓	✓
Monitoring						
get Status	✓	✓	✓	✓	✓	✓
get HttpResponse Time	✓	✓	✓	✓	✓	✓
get ICMP Ping Response Time	✓	✓	✓	✓	✓	✓
Migration						
Migrate**	← (1)	← (1)	← (2)	← (2)	≒ (1)	×
*	Importing and Exporting Data to a database is done by using the database configuration parameters, and is supported to a limited set of database systems					
**	Migration of application and its data between different platforms is supported, but it is only possible between specific platforms that are mentioned with the same number in the table					

Cloud Pier's solution: an open source multi-cloud application manager for PaaS

4 key capabilities...

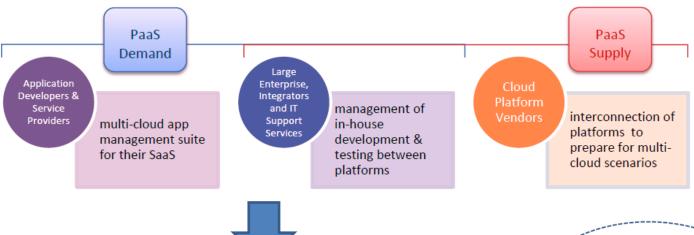


...for both the supply & demand of cloud's PaaS segment

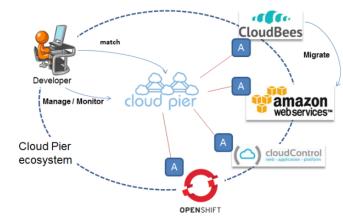


Cloud Pier business value





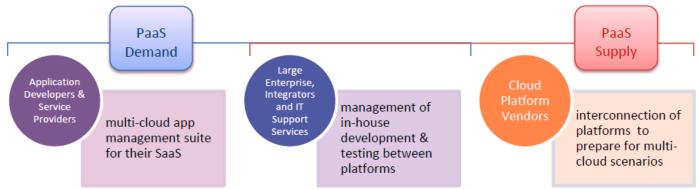
- ✓ Contrast & compare different platforms for your application in a fragmented market of difficult-to-compare cloud solutions.
- ✓ Reduce operational overhead with multi-cloud application management featuring simple governance, dashboard monitoring, unified metrics and user-defined SLA policies between platforms.
- ✓ Help alleviate vendor lock-in and lower switching costs in an ecosystem of "platform adapters", that empower the developer to migrate applications between competing private and public PaaS

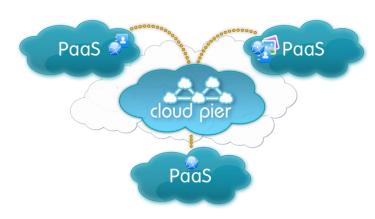




Cloud Pier value







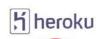


- Help enable multi-cloud scenarios for providers using a common API and "platform adapters"
- **Integrate Cloud Pier services in your PaaS** (e.g. simplified management, SLA monitoring, ecosystem of services using common API, etc.)















available today:

Looking for that special PaaS?

Search and browse for the best-

fit cloud platform based on your

application's requirements.

https://opencloudpier.org

https://github.com/cloudpier



for more info: Francesco D'Andria, ATOS,

cloudpier-adapters
Cloud Pier PaaS Adapters source code
Updated 5 months ago

Java ★3 ₺0

Java ★4 100

Java ★2 100

francesco.dandria@atos.net

Express Guide Value Try it Out! Backgrou Cloud Pier core modules Updated 5 months ago

cloudpier-ui

Cloud Pier Web UI modules Updated 5 months ago

cloudpier-core

an open source multi-cloud application manager for PaaS



O Matchmaking 【計集 Management MAN MANAGEMENT

Too many clouds too little time?

Streamlined "multi-cloud" management of your applications across platforms. Monitoring

Comparing apples and oranges?

Monitoring of applications deployed on several platforms, using universal metrics and userdefined SLA policies. Migration

Vendor lock-in got you down?

Enables portability of applications and their data between similar platforms (e.g. Java to Java), yet very different vendors.

Learn more about how Cloud Pier can help out your application and PaaS experience, and then take it for a test spin!

After looking through the site for an overview, see our new whitepaper for a closer look on how Cloud Pier can help facilitate the PaaS segment:

Cloud Pier: Facilitating Today's PaaS
Adoption and Preparing for Tomorrow's MultiCloud Demand

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