

A fully-featured PaaS environment

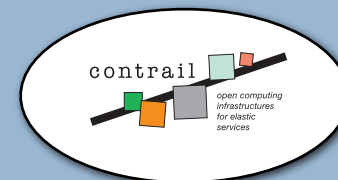
- Broad range of functionality
 - Web application hosting (static files, PHP, Java, ...)
 - Databases (SQL and NoSQL)
 - High-performance computing (MapReduce, task farming)
 - Extensible for adding more services
- Fully integrated
 - Applications can compose any set of services
- Easy to use but also very powerful
 - Simple Web GUI plus powerful command line tool
 - Services are highly customizable
- SLA enforcement in terms of PaaS services
 - Elasticity and resource provisioning to guarantee performance at lowest possible cost
- Making full use of Contrail's IaaS and federation technology
 - But also infrastructure-independent (EC2, OpenNebula, OpenStack, ...)



Contrail
PaaS

ConPaaS

Integrated runtime environment for elastic Cloud applications

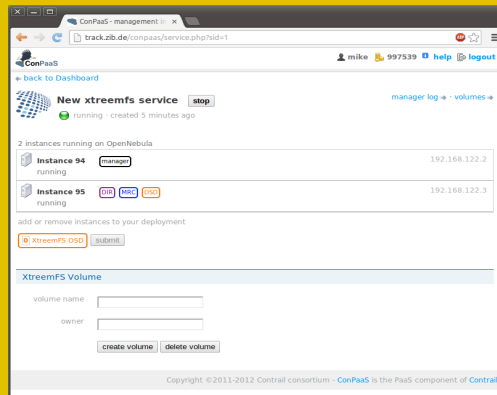


<http://conpaas.eu>

Providing easy service creation and deployment

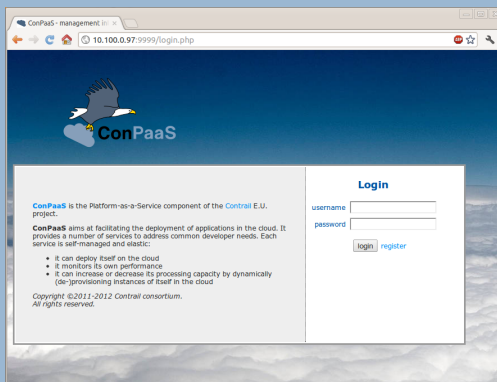
Components and services

- Generic ConPaaS components:
 - Web GUI
 - Service core, common functionality
- ConPaaS services:
 - Web hosting: static files, PHP, and Java
 - MySQL database
 - Scalarix key-value store
 - MapReduce
 - TaskFarming
 - XtremFS service (example of wider code integration)



<http://contrail-project.eu>

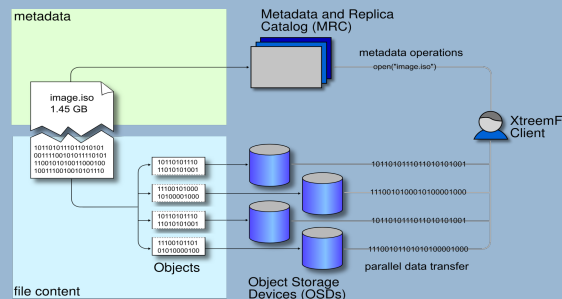
ConPaaS web front end



- ConPaaS online
 - Online public test bed
 - Free to test for everyone
 - <https://online.conpaas.eu>
- ConPaaS download
 - ConPaaS is public domain software
 - Download: <http://conpaas.eu>

XtremFS Service in ConPaaS

- ConPaaS Service
 - create and manage XtremFS deployments in the cloud
 - easy to use web-frontend
- Features
 - manage DIR, MRC and OSD nodes
 - dynamically scale XtremFS by adding/removing virtual machines as needed
 - volume management
 - policy management
 - Replication
 - Replica Selection
 - OSD Selection



Latest release

ConPaaS release 1.3

Available for download: 2013-11-17

The most important new features in this latest release of ConPaaS are

- Save and resume an application's configuration with manifests.
- Persistent storage for XtremFS and MySQL services.
- New High-Throughput Computing (HTC) service: this service provides a throughput-oriented scheduler for bag-of-tasks submitted on demand for ConPaaS.
- New modular script to create disk images for ConPaaS with size optimization.

ConPaaS is developed in the Contrail project. Contrail is a project managed by the Contrail consortium. It develops a stack of federated Cloud computing tools that can work together.

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