



*A more flexible approach to cloud development and deployment*

**Key Words:**

- Cloud Computing
- Scalability
- Deployment
- SLA



**Project Name**

Elastic Grid

**Category**

Cloud Computing  
Dynamic Provisioning  
Management

**License**

AGPLv3

**Community**

- Rio
- Typica
- AWS
- OSSGTP
- Paris JUG

*Elastic Grid focuses on the productivity of developers and organizations that use Java enterprise applications, enabling them to easily deploy, manage and scale applications running on virtualized compute assets, whether that be across public or private clouds.*

**Innovative**

Cloud Computing providers allow a fantastic way to deploy scalable machine images easily and on demand. However, there is a finer grain of scalability that must be provided, allowing individual application assets to easily scale to meet the demands of a running system. The Elastic Grid approach provides dynamic allocation, management and scalability of applications through the cloud.

Elastic Grid provides a straight forward architecture allowing developers and deployers to focus on their application, instead of spending time and energy on cloud specific technology and bundling operations.

**The Elastic Grid benefits**

Using a unique Groovy Domain Specific Language tailored for Cloud Computing, the Elastic Grid Cloud Management Fabric provides the ability to declare your architecture as a set of services, that are automatically deployed, instantiated and managed through the cloud.

Your application can also take advantage of the Elastic Grid Service Level Agreement (SLA) approach, allowing finer grain scalability (based on application defined metrics), fault detection and recoverability, cloud-wide monitoring and notification.

Observing your application can be done using our management console, as well as using XMPP, allowing instant message alerts for service notifications and management actions.

## The Elastic Grid Architecture

### Cloud Management Fabric

The Cloud Management Fabric provides an adaptive capability to dynamically instantiate, monitor & manage application components. A unique Domain Specific Language developed in Groovy provides context on service requirements, dependencies, associations and operational parameters. Elastic Grid Provisioning services provide resource utilization analysis mechanisms to effectively take use of resources through the cloud.

### Cloud Virtualization Layer

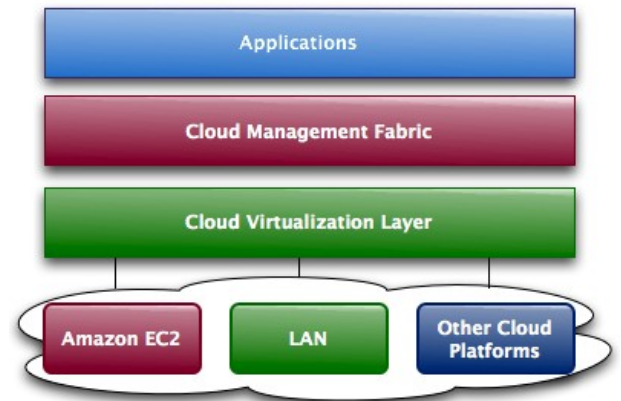
The Cloud Virtualization Layer abstracts specific cloud computing provider technology, allowing portability across specific implementations. With this approach you can deploy your application:

- Private Cloud
- Amazon EC2 Cloud
- ... and even more to come soon!

### Service Level Agreements (SLA)

Elastic Grid deployment descriptors (non-intrusive with your code) can provide:

- Selection of the best machine where to deploy the services based on the requirements written in the deployment descriptor;
- Active monitoring of SLA with many strategies like service relocation, provisioning of additional instances, etc.
- Green Computing and Cost Savings: when the load decreases, Elastic Grid un-provision your unneeded service instances and servers.



### Key Features

- Write Once, Deploy on Any Cloud Platform™.
- Deploy any POJO or Spring Bean and apply SLA to each of those services.
- Benefit from distributed associations/loC with smart proxies providing fail-over, load-balancing and many more strategies.
- Describe your application/services SLA needs instead of focusing on how to keep your infrastructure under control.
- Deploy and provision across the cloud, without dealing with cloud provider specifics.

## Professional Support



- Elastic Grid provides unique support offered by the experts to help resolve problems during any stage of your application lifecycle.
- Elastic Grid provides an Early Access Program and priority for enhancements and contributed patches to be added in Elastic Grid.

## OW2

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### About OW2

Founded in January 2007 as a result of the merger of ObjectWeb and OrientWare communities, OW2 is an independent industry consortium dedicated to developing open source code middleware and to fostering a vibrant community and business ecosystem. Building on the legacy of ObjectWeb and OrientWare, OW2 federates more than one hundred organizations and 6000 developers in Europe, Asia and the Americas. OW2 hosts over one hundred technology Projects, including Lombok, Sync4j, eXo Platform, XWiki, SpagoBI and JOnAS. Several of the OW2 projects are combined into market-driven Initiatives, such as the ESB/SOA Initiative and the Business Intelligence Initiative, which facilitate their implementation by systems integrators, OEMs and end-users. A typical global open-source organization, OW2 aims to bring together grassroots communities across all continents through Local Chapters.  
[More information about OW2 is available at http://www.ow2.org.](http://www.ow2.org)

