Simplicity
Control
Freedom

Follow a **simple installation** procedure to use StratusLab with your existing hardware to **create a cloud.**

Keep it private, or allow **secure access** with X.509 **grid-compatible** access control.

Control and **monitor** your infrastructure-as-a-service cloud designed to run **grid** services and other demanding applications.

Freely manage and **customize** virtual computing environments for your **complex** applications.

For a StratusLab test drive, email **support@stratuslab.eu** to request an account on our cloud infrastructure.

Contact
email info@stratuslab.eu
web www.stratuslab.eu
Twitter @StratusLab

Coordinator

Charles Loomis
LAL Bât. 200, B.P. 34
91898 Orsay cedex, France

telephone +33 (0) 1 64 46 89 10
fax. +33 (0) 1 69 07 94 04

cnrs

dsa-research.org

grnet
Networking Research and Education

Centre National de la
Recherche Scientifique
France

Universidad Complutense
de Madrid
Spain

Greek Research and
Technology Network S.A.
Greece

sixsq.

Telefónica
Telefónica
Investigación y Desarrollo

SixSq Sàrl
Switzerland

Telefonica Investigacion
y Desarrollo S.A. *Spain*

Trinity College Dublin
Ireland

7 CAPACITIES

StratusLab

Enhancing Grid
Infrastructure
with Virtualization
and Cloud
technologies

Open
Source
Cloud
distribution

www.stratuslab.eu
www.stratuslab.eu
www.stratuslab.eu

StratusLab training event, Hanoi, Vietnam

Grids support **sharing resources** and expertise through VOs, and offer a uniform **security** model. However, developing and running applications on a grid can be complex.

Clouds allow **dynamic allocation** of resources through **simple interfaces** and support **complete customization** of the application environment.

StratusLab draws on the strengths of both **grid** and **cloud** technologies to offer a cloud solution that meets the needs of computational researchers and systems administrators.
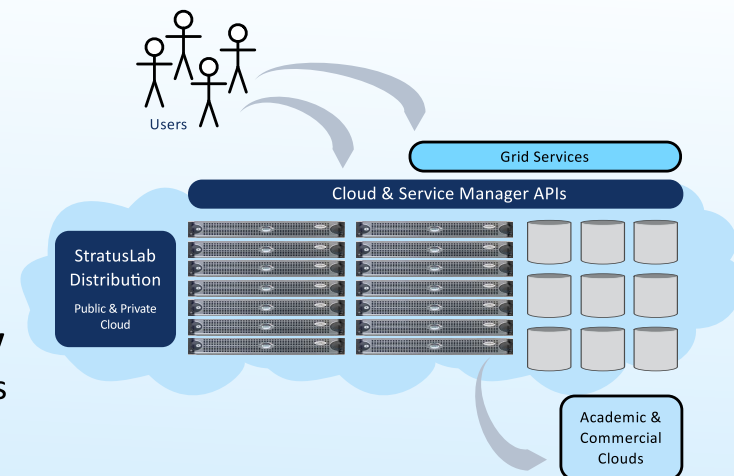
StratusLab provides the power behind the new DS-Cloud Ready Pack, a turnkey Infrastructure as a Service (IaaS) cloud solution aimed at SMEs which was announced on 15th March 2012 by IBM, SixSq and Darest.

"Being able to create a commercial product, based on StratusLab software, with companies like IBM and Darest is very exciting. This shows how well focused FP7 projects can really make a difference in the commercial world and give SMEs like SixSq a significant edge."

— Marc-Elian Bégin
SixSq, Geneva, Switzerland

Features

- Full **production-ready** cloud distribution
- **OpenNebula** virtual infrastructure manager
- Claudia platform service management for **dynamic service provisioning and scalability**
- **Marketplace** which allows user communities to create, find and share **customised virtual machine images**. Starter images with common OS's are available as well as grid and bioinformatics appliances
- **Persistent storage** allowing users to create and access disk-like storage areas on remote cloud storage resources
- Sophisticated **web-monitoring** tool
- Easy-to-use **command-line tools** for users and system administrators, tested on **Linux**, **Mac OS X** and **Windows**
- Supports **cloud authentication via X.509** grid certificates
- Manual and **Quattor** installation options

Users

Grid Services

Cloud & Service Manager APIs

StratusLab Distribution

Public & Private Cloud

Academic & Commercial Clouds

Marketplace

The StratusLab **Marketplace** is now being adopted by the **European Grid Infrastructure** and other organisations as a way to safely share community-created and endorsed virtual appliances. Marketplace users have access to over 100 virtual appliances with more being added on a regular basis.