

# IaaS Cloud Distribution

StratusLab provides a complete, open-source Infrastructure-as-a-Service (IaaS) cloud distribution.

The compute, storage, and networking services are well integrated, making the distribution easy to install and to use. Running grid services over the StratusLab cloud validates its production quality.

## Storage Services

Storage is managed as "disks" and is easy to allocate, attach, and detach from machines via the command line client or the web interface.

- **Persistent R/W data storage**
- **R/O disk images** for data distribution
- **Volatile storage** for temporary data

Tag	Size	Users	Owner	UUID
snapshot-14965228-8828-4653-abc3-55865781818d	1 GB	0	pdisk	0581396c-420c-484c-8283-2582472a13b
C502entelOUPPZ929FuoDL19T	3 GB	0	pdisk	8480964c-26c7-4633-962c-9d3843680cfd
Pv3UM-uKZYWuWuNhd-TSP0y	1 GB	0	pdisk	1459522c-850c-4633-962c-9d3843680cfd
snapshot-14965228-8828-4653-abc3-55865781818d	1 GB	0	philippe	86c941e9-1212-484c-8283-2582472a13b
DNRlqphM8K-PzozvndTvxmz	1 GB	0	pdisk	9003a2c9-26c7-4633-962c-9d3843680cfd
snapshot-98544918-458-412a-8099-5c71f1220f0	1 GB	0	pdisk	7192413e-1348-4005-a23048120365
snapshot-6862a78e-9589-431d-837f-8514622010c	1 GB	0	pdisk	03004639-2109-400d-82098133a93
mypublic-disk	1 GB	0	epi_cf	690662f5-2298-4c43-297e-
snapshot-8480104e-1ac2-4653-802c-920aa1980c0	1 GB	0	pdisk	92098133a93

## Networking

You can **request public, local, or private IP addresses** for your machines, depending on your needs. External, dynamic firewalling and VLANs will appear in future releases.

## Security

- Flexible authentication mechanisms: **username and password** pairs or **X509 (grid) credentials**. Both defined in cfg. files or LDAP.
- **Quarantine** of stopped images for forensic analysis (if necessary).
- Authorization of **virtual machines via admin-defined policies** using Marketplace metadata.

## Compute Services

**OpenNebula 3.0** lies at the heart of the StratusLab virtual machine management.

**Define** the CPU, memory, and disk **resources that you need** for your machines and **control their lifecycle**.



## Service Management

**Claudia** allows multi-machine systems (a "service") to be defined through OVF and deployed as a group. It also **allows auto-scaling of resources** to accommodate increases and decreases of the service load.

## Image Mgt.

The **Marketplace** is at the **center of the image handling** mechanisms of **StratusLab**. Browse it and find the machine images you want to run.



The project provides **prepared machine images for many common operating systems** as well as some grid appliances.

## Use the Cloud!

**Ask for an account** at support@stratuslab.eu, then **install the StratusLab client**. It's as easy as that!

The client requires only Python 2.6+ and Java 1.6; it runs on Linux, Mac OSX and Windows. **Follow the "Get Started" link** to find the latest version and to download it.

## Install Your Own Cloud!

Interesting in running your own private or public cloud? **StratusLab is easily installed** via a script-assisted manual installation or automatically via Quattor.

Yum repositories exist for Fedora 14, OpenSuSE 12, and CentOS 6. **Follow the "Install Cloud" link** to find the repositories and installation instructions.

**StratusLab 1.4 Available**  
Visit <http://stratuslab.eu/>!