

StratusLab

Simple interfaces and tools for **dynamic allocation** of **customised cloud** resources.

- ◆ Full **production-ready cloud** distribution with easy, guided installation that works well on commodity hardware.
- ◆ **Federated appliance registry** and tools that allow users to create, **find and share** customised virtual machine images between clouds.
- ◆ **Quality virtual machine images** for common operating systems as well as scientific applications.
- ◆ **Easy-to-use client tools** for users and system administrators, tested on **Linux, Mac OS X and Windows**.

compute

Fast provisioning of virtual machines with **low latency startup**.

CloudInit run-time configuration of virtual machines.

CentOS, Ubuntu, and many other **appliances ready for use**.

storage

Users can create one or many **persistent volumes** for their data.

Dynamically attach data volumes to virtual machine instances.

Volatile storage for **high-bandwidth IO** for temporary data.

network

Integrates with and uses with **standard network services**, like DHCP.

Does not require full, dynamic control of networking switches.

Supports both **IPv4 and IPv6** addressing for virtual machines.

image management

Fully federated mechanism for **sharing appliances** (and data!) between users and between clouds.

Allows appliances to be endorsed so that they can be **trusted by users and administrators**.

Complete **security framework** for validating downloaded images and for applying **cloud administrator authorisation policies**.

roadmap

StratusLab provides **new releases** every **3 months** with both **bug fixes** and **new features**.

Upcoming features:

- ◆ Libcloud python API driver
- ◆ CIMI standard cloud service interfaces
- ◆ Improved robustness at higher scales