

Enhancing Grid Infrastructures with Virtualization and Cloud Technologies

StratusLab Production Cloud Service

The Reference Cloud Service, built with the latest version of StratusLab distribution and deployed in GRNET's datacenter, provides public access to a cloud testbed both for evaluation and for production use.

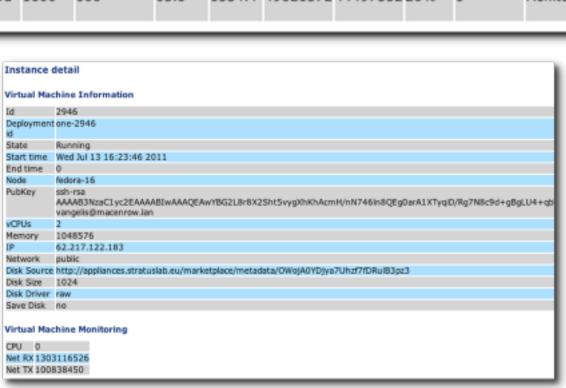
Service Features

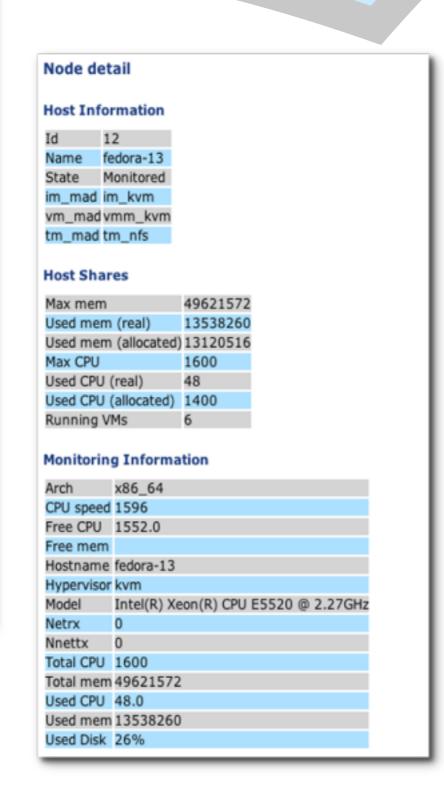
- 17 physical nodes (1 Frontend + 16 hosts)
- 256 CPU cores
- 768 GB total memory (48 GB per node)
- 3.6 TB shared storage over NFS
- Support for public IP and local IPs
- Currently running StratusLab v1.1 on Fedora 14.
- Uses OpenNebula 2.2 over kvm for VM management
- Integration with the Claudia Service Manager available

9 months of continuous operations

- More than 3600 VMs instantiated
- Longest running VM is 120 days without interruption
- Hosts the HG-07-StratusLab production grid site, exhibiting high availability and reliability (> 90%)
- 4 major upgrades with minor, limited service interruptions
- VM appliances for gLite grid servicess and various other applications available from the StratusLab Marketplace

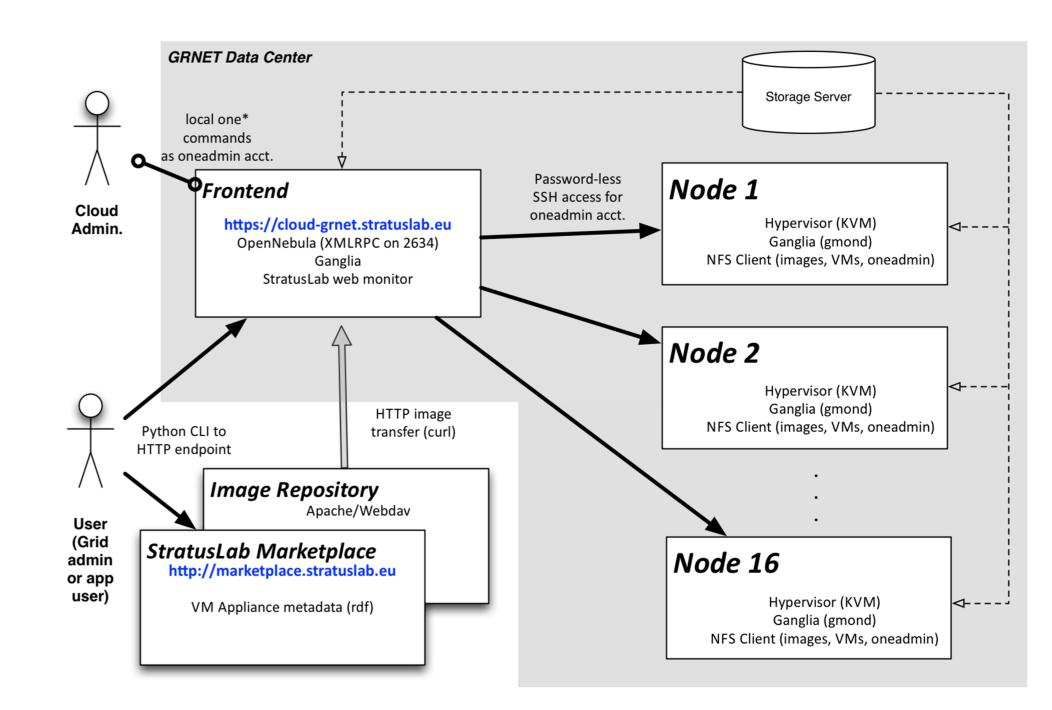






How to access and use the service

- Send email to support@stratuslab.eu, providing your details and purpose of usage
- Connect using username/password or your grid certificate (preferable)
- Manage your VMs using the StratusLab command line interface (stratuslab-* tools)
- Prepared appliances and base images (ttylinux, CentOS, Ubuntu, ...) available from public repository operated by TCD
- You can always create your own images and host them in your own repository!)



Monitoring

Web monitor provides overview of hosting nodes and VMs currently running in the cloud.

Ganglia used for monitoring the physical infrastructure.

de Madrid

Spain









