



SlipStream®: Smart Cloud Application Management

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CEO, Co-founder

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Our products and services portfolio



+

all the **consultancy**, **support** and **training** you need

Who uses our products and services?



T...Systems...



AtoS

CITRIX®

THALES

What people say about us?

“ SixSq delivers the type of fluid and secure cloud solutions for application deployment automation that are critical to successful businesses. ”



William Fellows, Analyst,
Research Vice President and
Co-founder, 451 Research

451 Research

**“ Using SlipStream is like driving a Tesla.
It's that good! ”**



Jurry de la Mar, Head of
International Sales, Public
Sector, T-Systems

T-Systems



Partnerships and Collaborations





SlipStream.

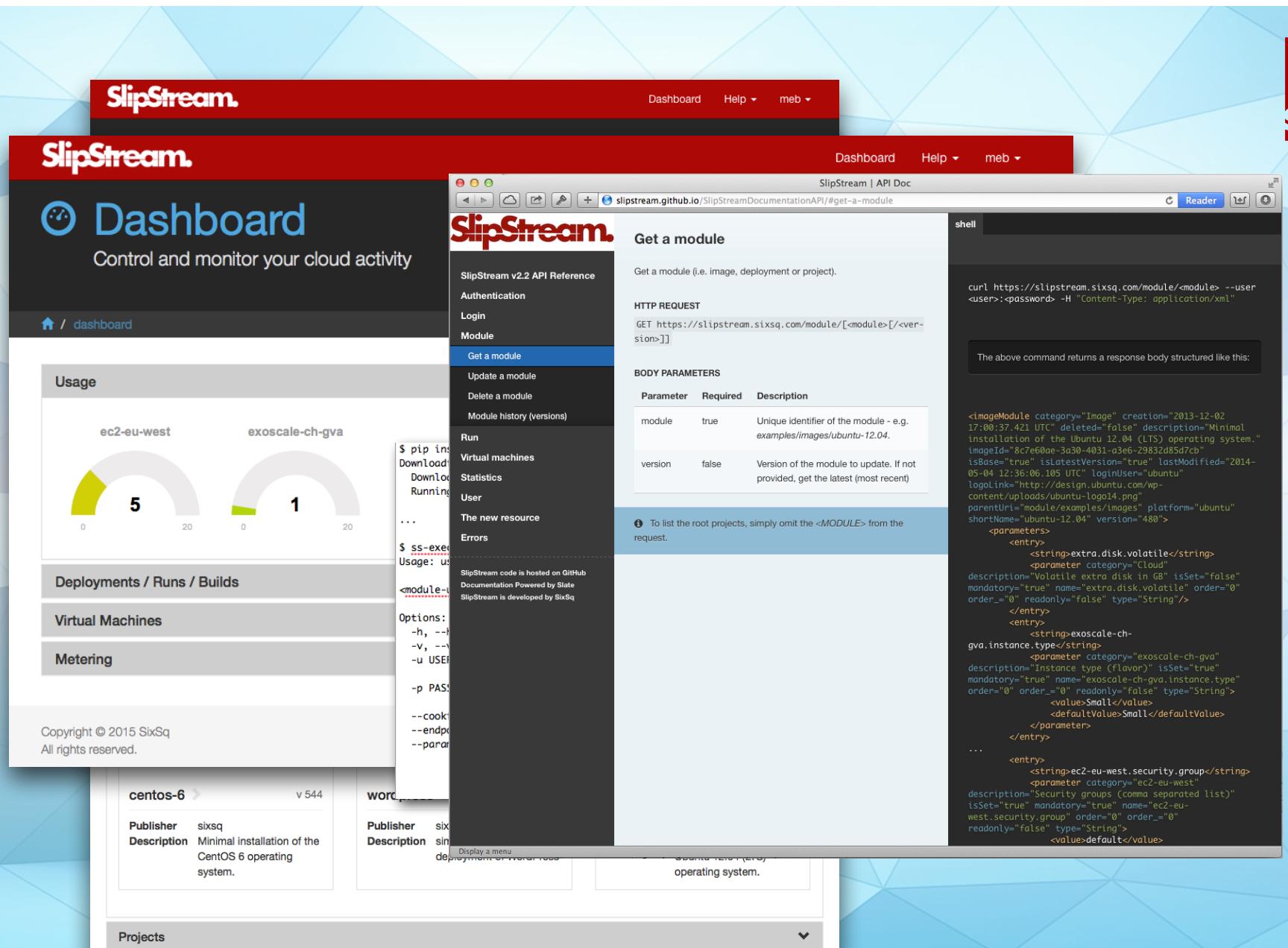
PaaS
Open Source
Multi-Cloud
Multi-Tenant
...it's all about automation...

SlipStream in the * as a Service

SaaS: Software as a Service

PaaS: Platform as a Service

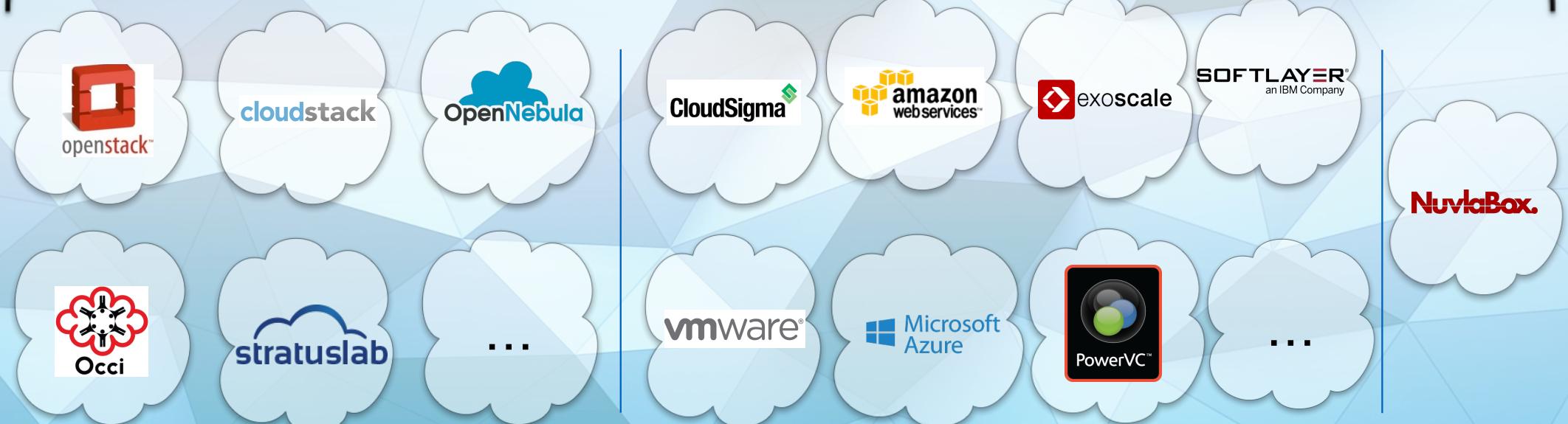
IaaS: Infrastructure as a Service



Cloud Neutral: Any application - Any cloud

**Scalability
and agile IT**

SlipStream.



<http://sixsq.com/products/slipstream/cloud-connectors/>

In a Nutshell

- ▶ **Open Source:** Released under the Apache 2.0 license, giving you openness and transparency
- ▶ **Professional:** A dedicated team designs, develops, tests and supports SlipStream based solutions
- ▶ **Multi-Cloud:** A truly multi-cloud and cloud agnostic provisioning platform giving you freedom of choice, avoiding lock-in

In a Nutshell (2)

- ▶ **Multi-Tenant:** Build for enterprise, with multi-tenancy support
- ▶ **Automation:** Built-in Enterprise App Store feature makes using SlipStream child's play, without compromising security
- ▶ **Scalable:** Used by distributed teams, with demanding workloads, means SlipStream will scale with your usage

Use cases

- ▶ **Enterprise App Store / Self-Service IT:** Provisioning applications inside an organisation should be as simple as installing an app on a mobile
- ▶ **Hybrid Cloud Provisioning:** The ability to burst or scale-out to public or remote clouds can yield significant tactical, strategic and cost benefits
- ▶ **LAMP and complex application provisioning:** What most organisations want is the ability to reason in terms of application or even sets of interrelated applications

Use cases (2)

- ▶ **DevOps platform:** Teams need to be able to *fluidify* their development and deployment process, such that apps be deployed in (pre-)production in the most efficient way
- ▶ **Cloud Marketplace** (Helix Nebula Cloud Exchange - HNX): Federate several clouds under the same *broker* or *facade* to reduce cloud switchover costs and remove lock-in
- ▶ **Auto-Scale and Mutable Deployments:** Grow and shrink cloud resources automatically to reduce cost, improve service quality and security

Helix Nebula Initiative



Strategic Plan

- ▶ Establish multi-tenant, multi-provider cloud infrastructure
- ▶ Identify and adopt policies for trust, security and privacy
- ▶ Create governance structure
- ▶ Define funding schemes

Additional Users:

Suppliers

Adopters

CERN

To support the computing capacity needs for the ATLAS experiment

EMBL

Setting up a new service to simplify analysis of large genomes, for a deeper insight into evolution and biodiversity

esa

cnes iea dlr

To create an Earth Observation platform, focusing on earthquake and volcano research

PIC
port d'informació científica

To improve the speed and quality of research for finding surrogate biomarkers based on brain images

ECMWF

ESO

ESRF

Atos CGI CloudSigma CSA cloud security alliance™ DANTE www.dante.net esgi indra interoute from the ground to the cloud MEMSET HOSTING

SAP sixsq. SWITCH ...T...Systems. the SERVER LABS ultimum technologies

awst Capgemini CLOUDEO cnrs DataCentred deac Ifremer NEPHOS TECHNOLOGIES

Business Services Prologue. Telefonica terradue 20 THALES vito Yandex

Overview



HNX

T...Systems...

exoscale

 **ULTIMUM**
TECHNOLOGIES

Atos



ESA pilot on Helix Nebula...

Automatic Cluster Deployment

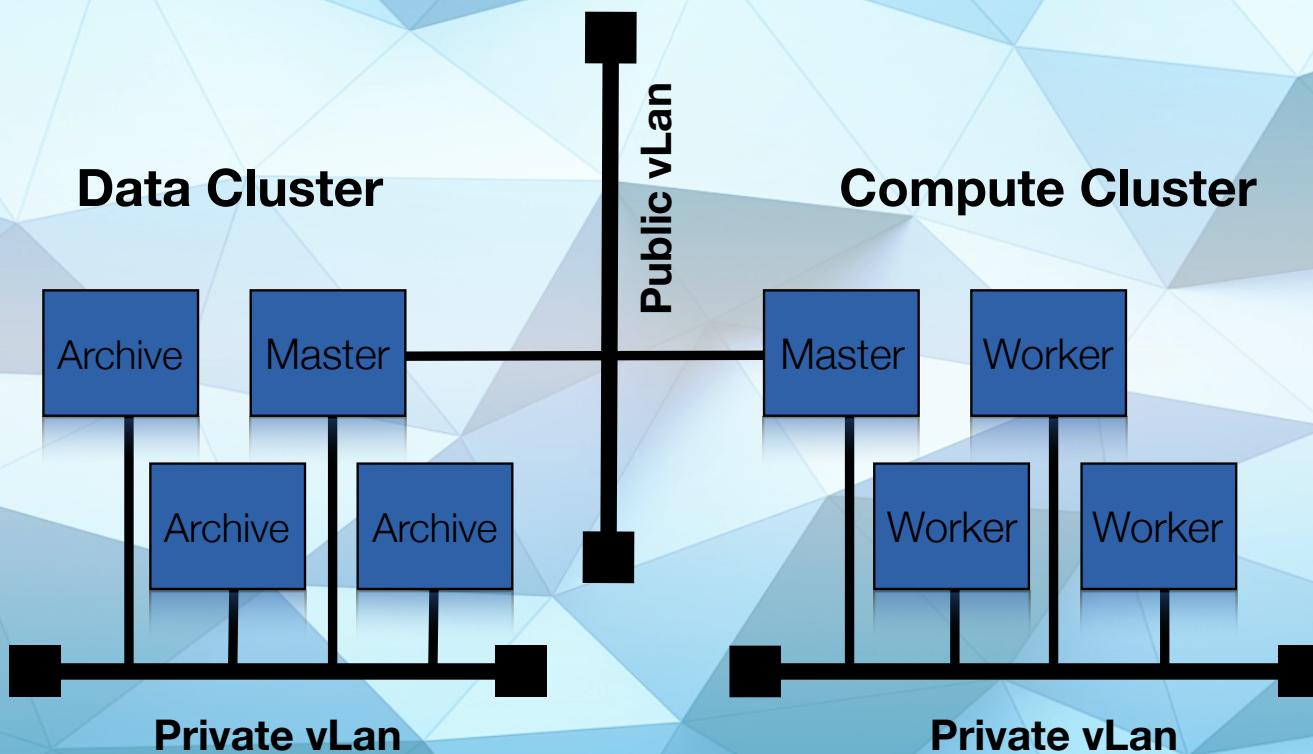
► Goal

- Make available rich Earth observation data
- Facilitate creation of dynamic data processing clusters in the cloud
- Ignite new data exploitation businesses

► Solution

- One-click parameterised processing cluster deployment
- Automatic image construction, from basic base images
- Data service (e.g. distributed file share)

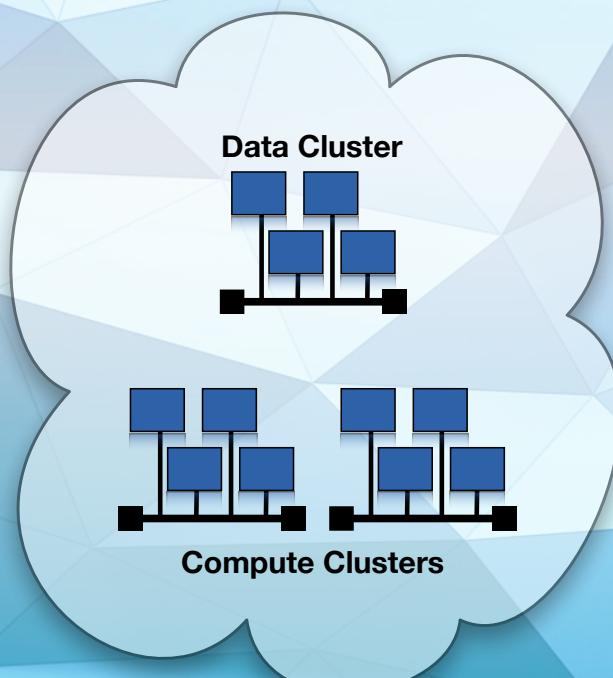
Deployment Model (simplified)



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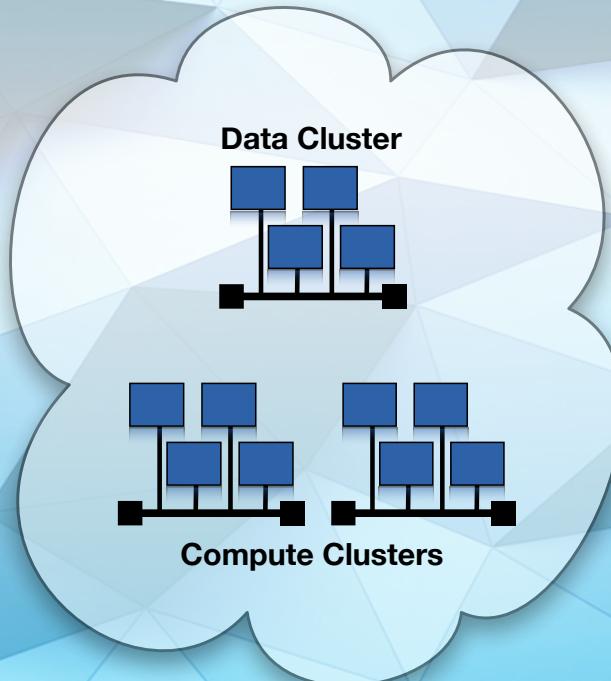


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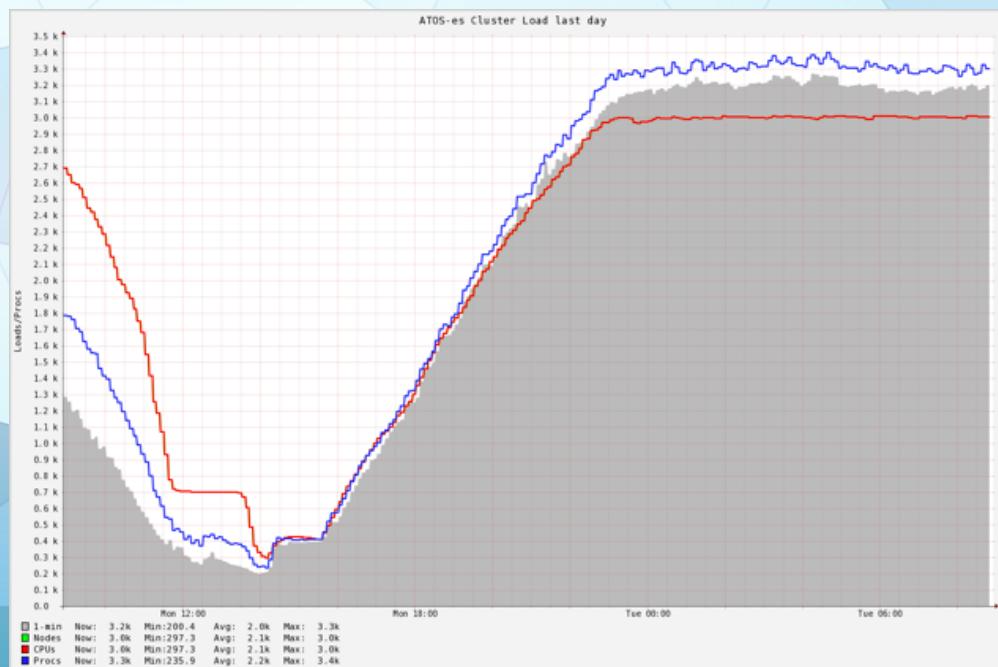
SlipStream.

ULTIMUM
TECHNOLOGIES



SlipStream at Scale (via HNX)

CERN provisioning ~3000 VMs for LHC computation





Thanks :-)
sixsq.com