

Technical Overview

StratusLab Final Periodic Review

Brussels, Belgium

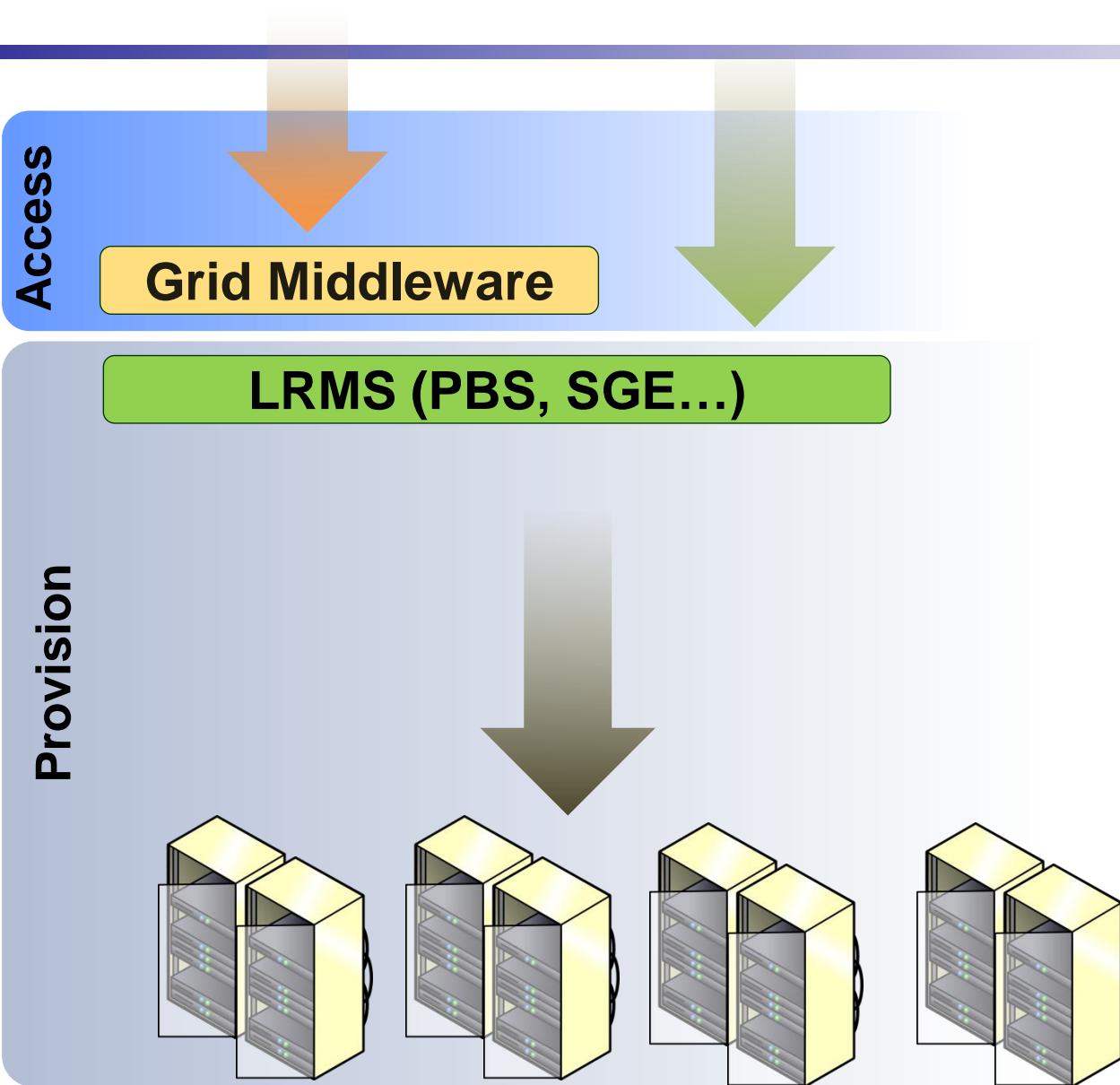
10 July 2011



StratusLab is co-funded by the
European Community's Seventh
Framework Programme (Capacities)
Grant Agreement INFSO-RI-261552

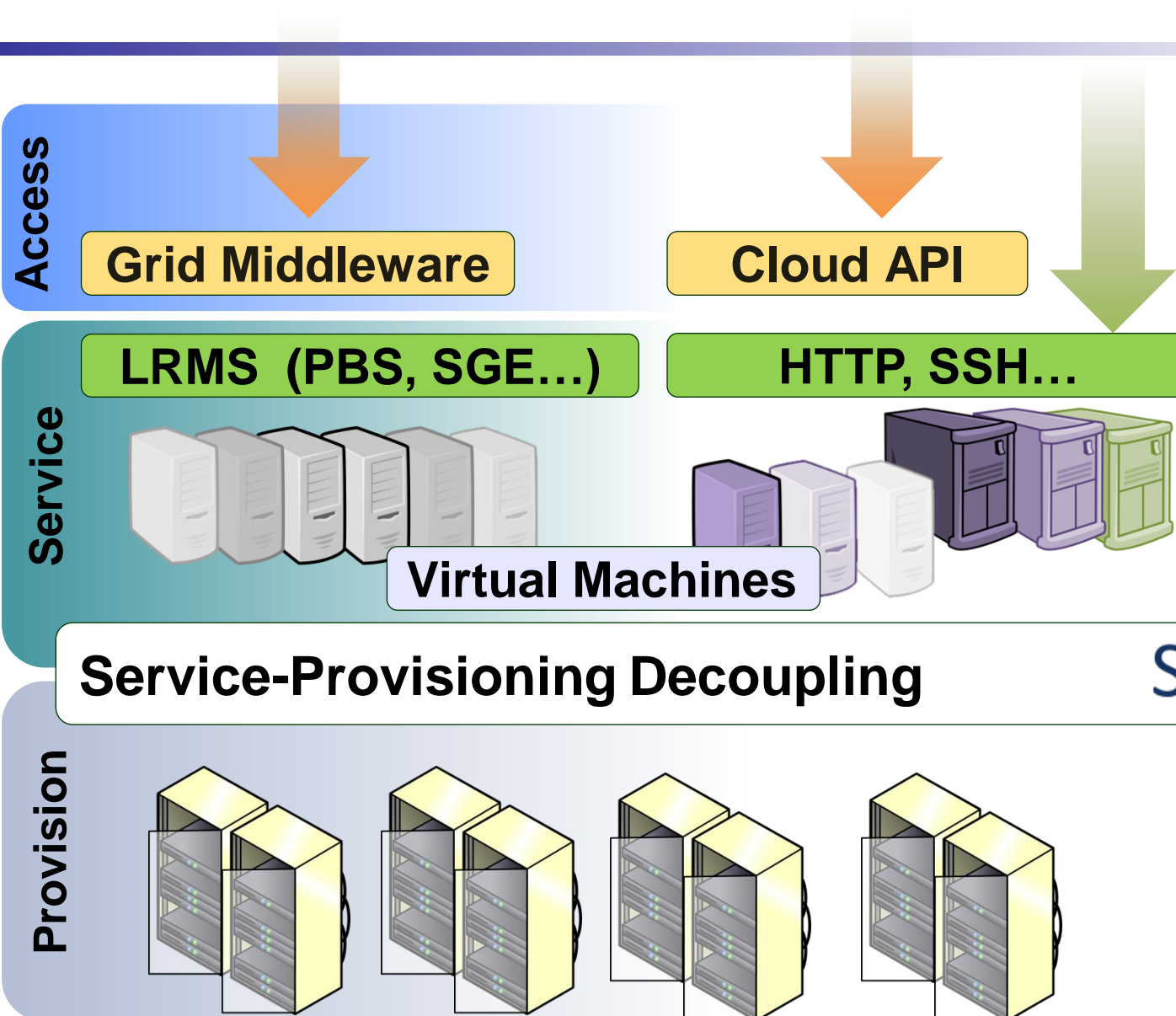


The StratusLab Vision (before...)



The StratusLab Vision (Year 1)

StratusLab



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Cloud API



Cloud API

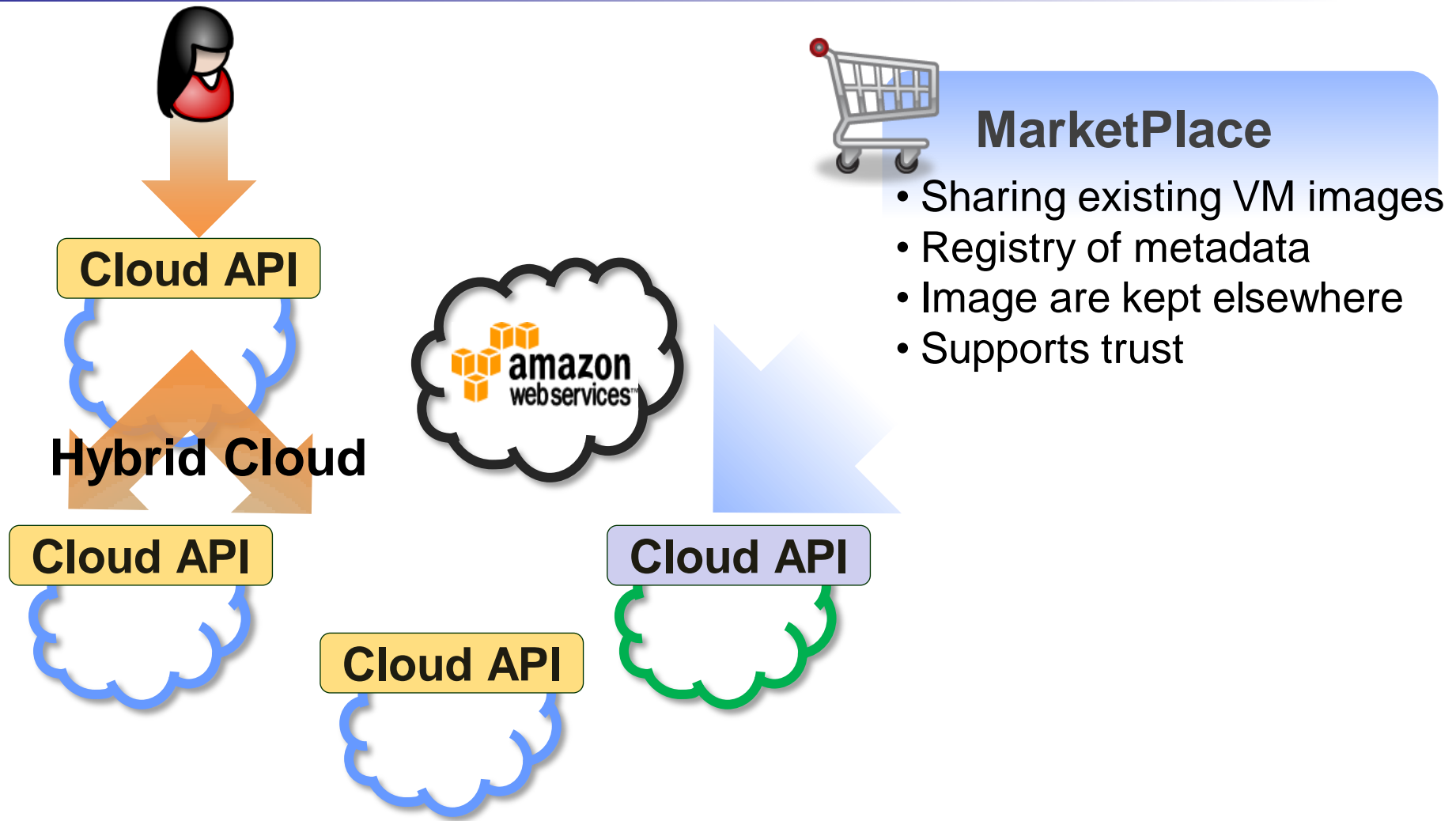
Cloud API

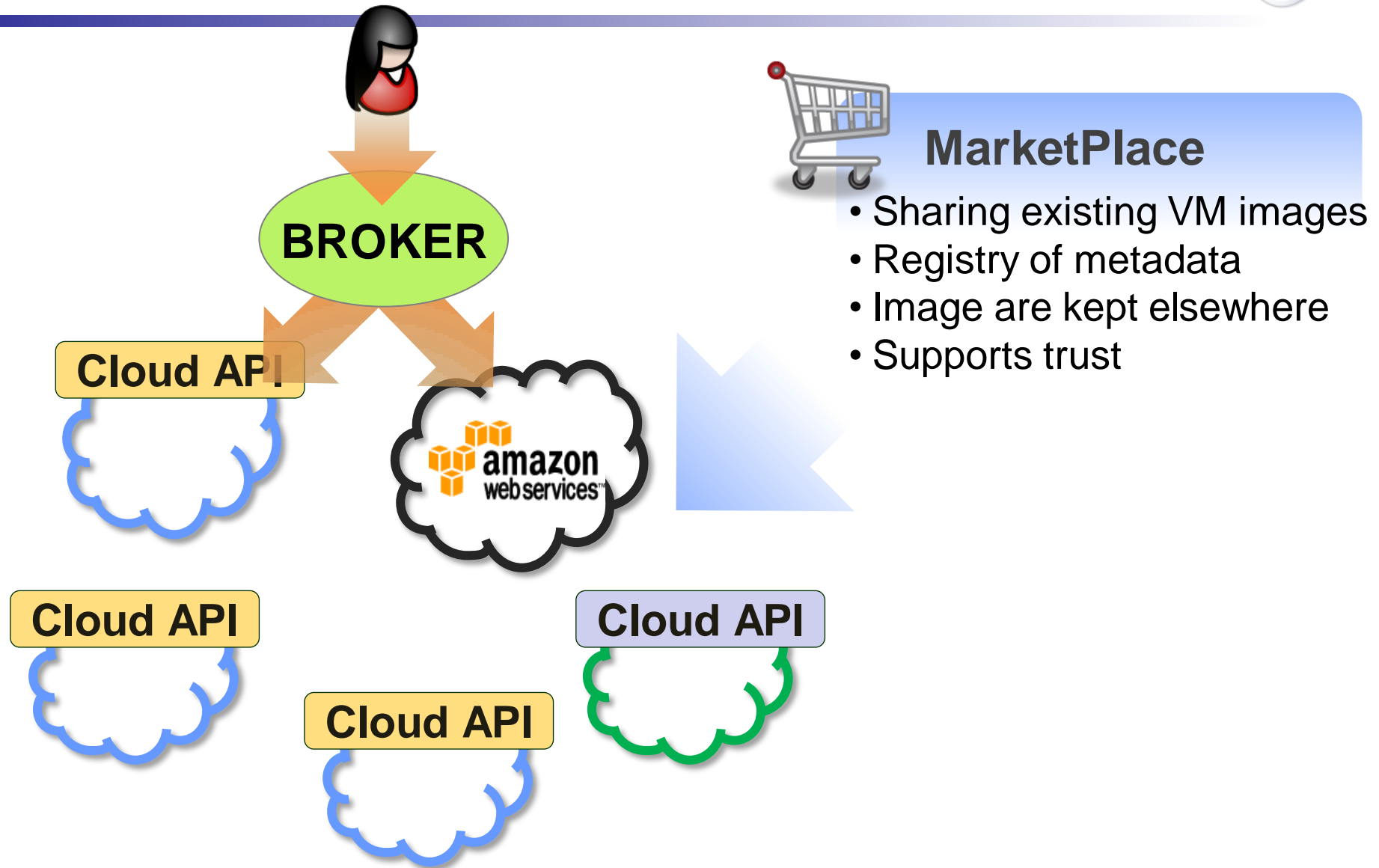
Cloud API

But...

- Identity on multiple clouds
- Different API's
- Access to Images
- Networking

The StratusLab Vision (Year 2)





StratusLab Distribution

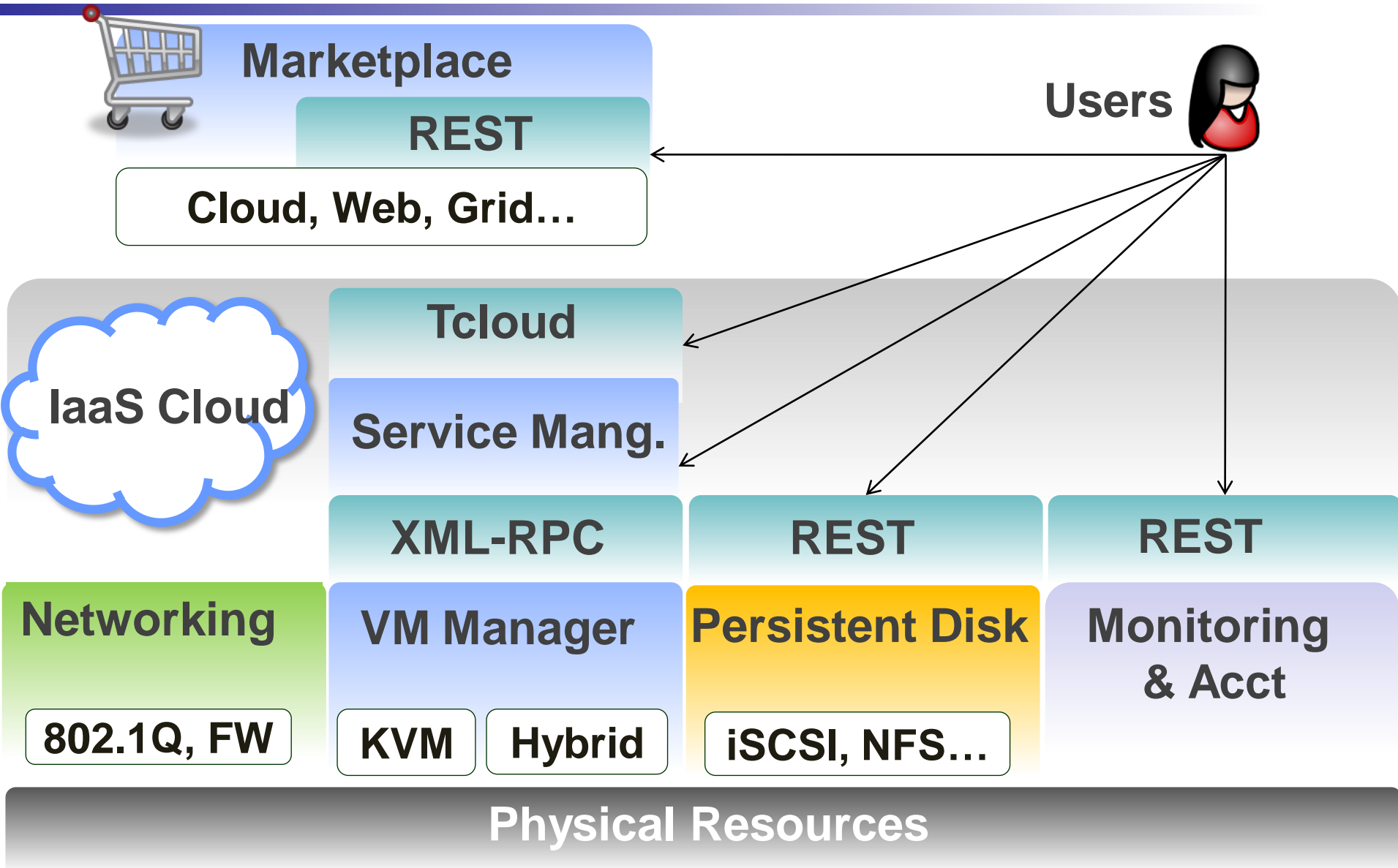
- Stratus Components
- Easy to install
- Thoroughly tested
- Regularly released
- Supported



Cloud Services

- Virtualized Grid Site
- 2 x IaaS Sites
- Marketplace
- Show-case
- Know how

StratusLab Distribution



Virtualized Grid Site


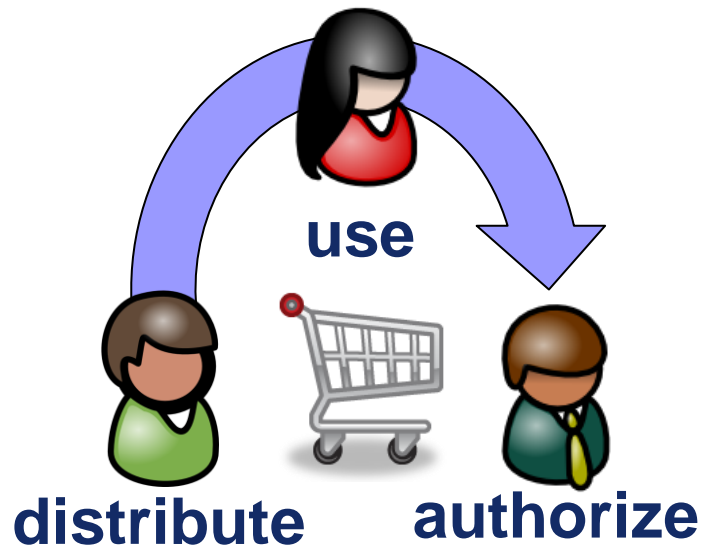
- Deploy a production site in an IaaS cloud
- Typical Grid configuration (CE, SE, WNs, APEL)
- Certified by the Greek NGI
- Integrated within the Greek NGI

IaaS Clouds

- Operated in production exposing StratusLab IaaS APIs
- GRNET + LAL
- Operated in a Federated Way
- Demonstration, Validation & Best practices
- Host production applications

Marketplace

- Image sharing facility
- Stores image metadata
- Actual images stored elsewhere
- Support trust: users, admin, devs



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Metadata

Deprecated entries: [Off](#) | [On](#) | [Only](#)

Filter:

Sort by:

Show entries


Search:

ScientificLinux v5.7 x86_64

Endorser: [dvtoan@ifi.edu.vn](#)

Identifier: [AFGsGQa8ERmcwvzTBZ3dk_taAf3](#)

Created: 2012-06-29T14:59:57Z



A base instance of the OS ScientificLinux that had installed all necessary packages for the Computing Element (CE). This CE runs on the grid computing EGI. Configured only with a root user. The firewall in the image is disabled, IPv6 is enabled, and SELinux disabled. Uses the standard StratusLab contextualization mechanisms. A swap volume is expected to be provided on /dev/sdb.


[More...](#)

ScientificLinux v5.7 x86_64

Endorser: [dvtoan@ifi.edu.vn](#)

Identifier: [HImRvZG3nE4mAeSIs5SBnWDBvW8](#)

Created: 2012-06-26T16:24:43Z



StratusLab Distribution

- Stable, periodically released & comprehensive software distribution
- Easy to build a IaaS Cloud
- In use by several EGI sites & commercial solutions

Cloud Services & Reference Deployments

- Operation of a virtualized Grid site
- Operation of 2 IaaS clouds
- MarketPlace

Support for Production Applications & Adoption

- Production use-cases for a wide-range of application domains
- Reference services attracted and served multiple users

Multi-Cloud Federation

- Demonstrated a federated set-up of IaaS Clouds
- Deployed complex (multi-tier) applications in multiple-clouds
- Federated tools (Marketplace) being adopted by EGI

Questions?

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