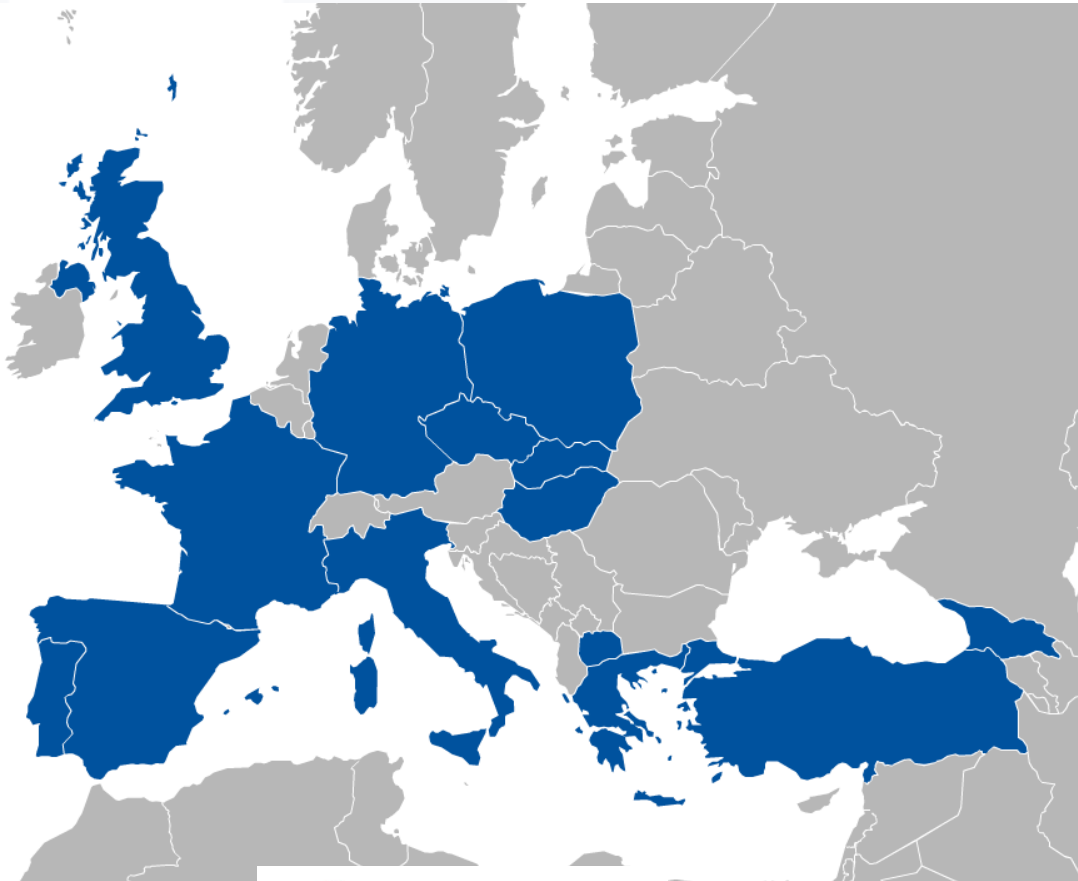


EGI FedCloud in the last 6 months Lifewatch Status (Seville Site)

The infrastructure



EGI-ENGAGE



Infrastructure numbers

Nov 2014 - May 2015

- **21 sites**
- **28.3K VMs***
- **335K CPU hours***
- **20 VOs**

Missing clear information from long-running VMs, these may have grown in the last period

May 2015 - Nov 2015

- **20 sites** (SZTAKI gone)
- 29.4K VMs*
- 257K CPU hours*
- **24 VOs**
- CC are starting to approach fedcloud: LifeWatch, MoBrain, BBMRI, ELIXIR...

* Accounting numbers removing LHC and local VOs

- Allow users to get started quickly
- Automatically built with packer
 - Easy to get updated versions
- Three kind of images provided
 - Basic OS images
 - FedCloud clients VM
 - Training images

- Demand for Docker support increasing (PanCancer, HBP, READemption,)
- Docker **is supported** on FedCloud
 - Just install it on a VM
 - A Ubuntu 14.04 + Docker image soon available
- Docker container with voms + OCCl clients installed
 - Run the EGI FedCloud clients without messing with your machine configuration
- Next step: provide documentation and training

- Training infrastructure available
 - CESNET, BIFI, CIEMAT, CATANIA, UKIM
- Use of Per User Sub Proxies
 - No need for certificates for the trainees
 - Supported in OpenStack and OpenNebula*
- Training modules
 - Introduction with OCCI CLI, already used in three events
 - For this week:
 - Preparation of VMIs, VMDIRAC, COMPSs, D4Science
 - Coming:
 - Docker

*not complete user separation

- IaaS interfaces
 - OCCl as main & preferred API
 - **Openstack API now also supported**
 - Swift API coming soon
- FedCloud as a technology provider for building federations
 - See wiki, technology section.

- GPGPU support now available in FedCloud
- GPGPU on grid also evolving
- OpenStack integration at IISAS
 - <https://wiki.egi.eu/wiki/GPGPU-FedCloud>
- Some tests already performed by LifeWatch-CC members

- Support Lifewatch Activity
- Already public: Liewatch VO supported.
- Set of images available.

<https://cloudmon.egi.eu/nagios/cgi-bin/extinfo.cgi?type=1&host=cloud.ebd.csic.es>

Information

dated: Tue Nov 10 22:29:10 CET 2015
 d every 601 seconds
 © Core™ 3.3.1 - www.nagios.org
 in as /DC=es/DC=irisgrid/O=ifca/CN=fernando.aguilar.gomez

tatus Detail For This Host
 lert History For This Host
 rends For This Host
 lert Histogram For This Host
 vailability Report For This Host
 otifications For This Host

Host
cloud.ebd.csic.es
 (cloud.ebd.csic.es)

Member of
allas-keystone.ebd.csic.es, node-eu.egi.cloud.accounting, site-CSIC-EBD-LW

cloud.ebd.csic.es

Host State Information

Host Status:	UP (for 25d 10h 12m 14s)
Status Information:	OK: Host OK
Performance Data:	
Current Attempt:	1/4 (HARD state)
Last Check Time:	11-10-2015 22:28:38
Check Type:	ACTIVE

-  Local
-  Disa
-  Re-s
-  Sub
-  Stop

3 clusters:

EBD-1:

- 1x Chassis HP Blade C7000
- 11x Blade HP Proliant BL460G9 (2x CPU E5 2670v3, 192GB RAM, 2HD 1TB)
- 1x EMC VNX5600 Storage Array (300TB SAS + 350TB SATA)

EBD-2:

- 1x Chassis HP Blade C7000
- 10x Blade HP Proliant BL460G9 (2x CPU E5 2670v3, 192GB RAM, 2HD 1TB)

RBD:

- 1x Chassis DELL M1000
- 18x Blade DELL M620 (2x CPU E5 2680v2, 192GB RAM, 2HD 500GB)
- 1x EMC VNX5600 Storage Array (300TB SAS + 350TB SATA)

- GPGPUs will be added soon – Requirement from EGI-Lifewatch CC: Citizen Science miniproject.
- Requirement gathering needed: functional, non-functional, hardware...
- General tool needed: OpenProject? Hardware requirements?

EGI FedCloud needs and support

- Resources (6 months):
 - Test system for VLIZ:
 - R-Server, Shiny, ... 2 servers
 - GeoServers: 2 servers
 - Storage: access to central storage
 - MongoDB servers
 - Decide if “virtual” or not (distinction of “virtual” in the cloud)
 - Test system for Galaxy
 - Scaling up, reserve 300 cores, 1 Terabyte
 - Micro-CT
 - Order Terabytes (50 Terabytes)+ server
 - Support for R cluster
 - 300 cores, + server + 2.5 Tbytes
 - Support to Bioinformatic service HCMR
 - 300 cores, up to 1500 cores
 - TRUFA
 - 256 cores + servers, 50 Tbytes
 - Network of Life
 - Databases + servers
 - Computation (100 cores) + Space (1 Tbyte)
 - Citizen Science???
 - HCMR
 - BIFI