

# Cloud Accounting in APEL

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# EGI Federated Cloud

- EGI Testbed has a variety of sites and VM Management systems.
- A script queries the VMM database and cuts a Cloud Usage Record (based on OGF UR v1.1)
  - UR definition already included fields like Memory, disk I/O. Network I/O
- SSM is used to send to APEL.
- Script available for OpenNebula, StratusLab, OpenStack
- Summaries sent to Accounting Portal

# Site Status

Provider	Vmtype	Accounting	Oct-Jan13?	VO?	Date Format
100IT	OpenStack Grizzly	Yes	Yes		
BIFI (UNIZAR)	Openstack Grizzly	Yes	Yes		
BSC	Emotive Cloud				
CC-IN2P3	OpenStack Essex	Yes	No		
CESGA	OpenNebula 3.0	Yes	Yes		
CESNET	OpenNebula 3.8.1	Yes	Yes		
Cyfronet	OpenNebula 3.0				
FZ Jülich	OpenStack Fulsom	Yes	Yes	Yes	
GRIF	StratusLab	Yes	No		
GRNET					
GWDG	OpenNebula 3.2	Yes	Yes		
CSIC					
IGI/INFN	WNoDeS				
KTH-CLOUD	OpenNebula	Yes	No		
SARA	OpenNebula				
TCD	OpenNebula&SL				
SZTAKI	OpenNebula				
IISAS-Bratislava		Yes	No		
IISAS-FedCloud	OpenStack Folsom	Yes	Yes		
TW-EMI-PPS		Yes	No		
CERN-PROD		Yes	No		
CSIC					
CETA-CIEMAT					
OeRC	OpenStack				


# Prototype Portal





**GLOBAL View**


**Hierarchical Tree**

- Tier1
- Tier2
- Countries
- EGI
- OSG
- UNREGISTERED
- VO\_Discipline
- VO\_Metrics
- CUSTOM\_view



Developed by  CESGA




Developed by  CESGA

Google | EGI Accounting Portal

accounting-devel.egi.eu/cloud.php?query=vm\_num&startYear=2012&startMonth=4&endYear=2014&endMonth=1&yrange=SITE

Apps | BBC | Intranet | WLCG | APEL | APEL | EGI Accounting | STFC | RAL Tier-1 Cap... | Report an issue ... | Other bookmarks

**EGI ACCOUNTING PORTAL** 

**GLOBAL View** | **VO MANAGER View** | **VO MEMBER View** | **SITE ADMIN View** | **USER View** | **REPORTS** | **METRICS PORTAL** | **LINKS**

**Hierarchical Tree** | **Cloud View --> Production**

**Data to graph:** Number of VMs | Total number of VM run

**Period:** Start year: 2013 | Start month: 10 | End year: 2014 | End month: 1

**Groupings:** Show data for: SITE | as a function of: DATE

[Refresh](#)

**Total number of VM run by SITE and DATE.**

The following table shows the distribution of Total number of VM run grouped by SITE and DATE.

Total number of VM run by SITE and DATE						
SITE	Oct 2013	Nov 2013	Dec 2013	Jan 2014	Total	%
100IT	0	0	647	0	647	15.32%
BIFI	0	0	0	27	27	0.64%
CESGA	74	95	763	234	1,166	27.61%
CESNET	108	190	188	0	486	11.51%
FZJ	341	2	761	5	1,109	26.26%
GWDG	9	2	766	2	779	18.45%
IISAS-FedCloud	9	0	0	0	9	0.21%
<b>Total</b>	<b>541</b>	<b>289</b>	<b>3,125</b>	<b>268</b>	<b>4,223</b>	
<b>Percentage</b>	<b>12.81%</b>	<b>6.84%</b>	<b>74.00%</b>	<b>6.35%</b>		

[Click here for XML encoded data](#)

Chart showing the Cumulative Total number of VM run grouped by SITE and DATE.

# Issues

- How to merge grid and cloud accounting
- Requires normalisation.
  - ie benchmarking.