

APEL SSM accounting driver for Openstack (osssm v1.5)

1- Prerequisites

You first need to install and configure APEL SSM client whose role is to send the accounting usage records to the appropriate accounting database. Please follow the `SSMclient-setup.pdf` documentation, available on the accounting workgroup page of the FCTF wiki.

The role of `apel-ssm-openstack` is to extract the accounting data from Openstack cloud manager, format and forward it to the SSM client.

2- Installation

`apel-ssm-openstack` is mainly made of :

`/etc/osssmrc` configuration file
`/usr/bin/osssm` extraction script

In order to install `osssm`, checkout the svn repository :

```
$ svn co svn+ssh://anonsvn@svn.in2p3.fr/egi-acct-osdriver
```

a) for debian-like systems

- copy files :

`SOURCES/etc/osssmrc` → `/etc/osssmrc`

`SOURCES/usr/bin/osssm` → `/usr/bin/osssm`

- configure `/etc/osssmrc` and cron the execution of the script `/usr/bin/osssm`

b) for RHEL-like systems

- build the rpm with the spec file

- install it

- configure `/etc/osssmrc`

- enable the service :

```
$ chkconfig --add osssm  
$ chkconfig osssm on  
$ service osssm start
```

The cron task is handled by the service.

3- Configuration

Please refer to the man page **osssmrc (5)** for a full description of the configuration file parameters.

4- Known limitations

- The accounting records are associated to the instance name which is technically not mandatorily unique.
- Does not report network rx/tx bandwidth.
- Send all records each time (to be corrected soon).
- Does not handle paused Vms.