

---

# Pre-GDB su cloud

Luca dell'Agnello

23 Gennaio 2014

---

# Pre-GDB

- 14/1: Pre-GDB on cloud issues
- Accounting
- Security
- Target shares in cloud (i.e. pledge, batch system etc..)

<https://indico.cern.ch/conferenceDisplay.py?confId=272783>

Nuovo meeting in Primavera (Bologna?)

# Conclusions

- Good meeting with lively discussions!
  - Progress toward common understanding and solutions
  - Concrete work going on in several places
- Agreement on a “minimalistic” approach
  - Do not develop complex services or require big changes in exp SW
  - Do not “fork” cloud MW
- Not yet clear that a cloud without a batch system can replace a CE
  - Larger agreement that it would bring advantages for VOs if possible
- Egroup for discussions: register for if you are interested
  - [project-lcg-gdb-clouds-wg@cern.ch](mailto:project-lcg-gdb-clouds-wg@cern.ch)
- A future meeting probably in Spring

# Pre-GDB: Accounting

- Sinergia con EGI Fed Cloud TF
- Infrastruttura APEL
- benchmarking VM
  - Overbooking wn
  - Pubblicazione CPU minima in caratteristiche VM
- Problema “usage record” di cloud commerciali
- Probably try to stay with CPU-time for accounting and let sites overcommit to overcome potential inefficiency
  - Seems easier in the short term, in particular for pledges
  - Both CPU time and WC time are collected, as for grid jobs

# Pre-GDB: Security

- EGI policy based on VM endorsement
  - VM image endorsed by a limited number of endorsers
  - VM operator has root access the VM
  - endorser/operator vs. VO/site
  - Traceability probably requires that endorser and operator are not the end user
- create a new userid on the fly for every payload Authorization
  - based on the DN (banning check)?
- Problema accesso ai log
  - tracciabilita' (polizia postale ☺)
- Chi ha accesso come root?
  - non solo security (debug)

# Pre-GDB: Operational model

- Operationa model (batch system etc..)
  - Possiamo fare a meno del batch system?
  - Posizioni variegate fra gli exp ma seguendo il modello cloud preferirbbero non averlo
    - Uso pilot factory
  - Non visto favorevolmente dai siti....
- Caso reale (UViC)
  - Cloud basate su Nimbus e OpenStack
  - cloudscheduler

# Cosa serve a noi...

- Al Tier1 serve poter integrare OpenStack con un batch system 😊
- Quanto e' distante come target?
- E' possibile?