Distributed computing work status

A. Fella on behalf of Distributed Computing group

Outline

- Distributed storage works overview

- Dirac evaluation

- Phedex evaluation

- Distributed resources status

- Ganga use case analysis

- Nagios per VO

- CNAF services

Distributed storage works overview

- R&D Data access: HTTP and WebDAV in Wide Area Network scenarios (starting incollaboration with F.Furano)

- Distributed Tier1 model study: functional evaluation, data distribution policy, resource allocation

- Testing data access and storage system of interest: gLaster, NFS4, Hadoop, EOS

- Distributed storage group:

  - A.Fella, G.Donvito, E.Luppi, E.Manoni(5%), S.Pardi, V.Spinoso, L.Tomassetti

  - Forgot someone?

Dirac evaluation

- Setup of production use case, in preparation for a mass test submission for comparison test with official production system

- Evaluation of Dirac new release

- Intense collaboration with developer

- Phone meeting with developer short term

- Expected end of the evaluation works: end of November

- Dirac evaluation people:
  - **A.Fella, G.Donvito, B.Santeramo**

PhEDEx evaluation

- Oracle test instance ready at CNAF

- All the HW/SW configuration requirement have been provided

  - **Support by CMS experts: Nicolo' Magini, Jacek Wojcieszuk**

- CNAF offers one machine for Service installation

- D.Andreotti and A.Sartirana can help sporadically

- C.Grandi can switch on a collaboration within CMS community broadcasting the SuperB proposal

  - **Action in stand by cause of lack of people our side:**

    - **Need a full time person coordinatingthe task**

    - **Kris Raczka from Krakow was the reference person for the project, but he was recently no more available for economic reason**

Distributed resource status

- New entries:
  - **Cyfronet (KRAKOW)**
  - **IN2P3-IRES (Strasburgo)**
  - IN2P3-LPSC (Grenoble)
  - INFN-Catania
  - INFN-Frascati
  - RAL-PPD

Ganga Use case analysis

- In late with respect to the plans shown at QMUL
  - **Lack of people, need a dedicated full time**
    - **Sergey Makarychev (ITEP) join the group one week ago, can dedicate 50% time**
    - **Skilled, enthusiast, in ATLAS (simple access to documantation and expertise)**
  - **Hands on with analysts meeting expected for end of November**

Ganga infrastructure

- Ganga permit the user to interact with GridMon DB and data placement DB permitting to:

  - **Retrieve service availability info**

  - **Collect info about dataset**

  - **Create new dataset from analysis tasks**

- GridMon DB filled automatically by VO Nagios service

- Data placement DB under constructions: collects all the information about datasets (production and analysis) and its displacement all over distributed resources

- Ganga people: A. Fella, M.Manzali, S.Makarychev, V.Spinoso

Nagios VO

- Nagios Grid service availability monitor is up and running at CNAF

- The interface to the GridMon DB is under construction.

- People involved: A.Paolini in collaboration with the distributed computing group

CNAF status

- P.Franchini new AR, under training

- CVMFS ready in one month

- Disk space jump to 127TBi --> 180TBi 2012

- Software for distributed installation and management and experiment software LJSFi (under installation by S.Pardi)