
# Grid Colombia Workshop with OSG

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# Our backgrounds (Rob)

- I'm a high energy physicist but have been working on various grid projects for nearly a decade (!)
  - Computer science projects: PPDG, GriPhyN & iVDGL
  - Grid infrastructure: Grid3, OSG and WLCG
  - My science community has been the CERN ATLAS Collaboration, and its Software and Computing projects
- For the last few years:
  - OSG Integration and Sites coordinator
  - Facility Integration Program manager for USATLAS
  - Manager of an ATLAS Tier 2 (+2kCores, 0.5 PB,10G)

# Our backgrounds (Carlos)

- BS in EE at the Universidad de Los Andes, Colombia (!!) and PhD in Electrical and Computing Engineering by the SUNY
  - study of energy models applied to the Colombian Energy system
  - Parallel processing and networks
- ATLAS project as part of the GRID group at BNL
  - experience with data storage management systems
  - experience with database caching technologies
  - responsible for Oracle real application clusters database systems for US ATLAS hosted at BNL

# Our backgrounds (Aaron)

- technology generalist with some physics background.
- working with UNIX for 15 years and developing for Open Source projects for almost 10.
- Most recent projects:
  - an Internet video startup firm
  - a hedge fund
  - a group focused on human rights information security

# Our backgrounds (Jose)

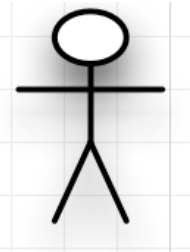
- Degrees in Electronic Eng. and in Physics by UGR (Spain)
- PhD in Physics at CIEMAT (Madrid):
  - Statistical sw for HEP
  - Working on the CMS muon chambers
  - CMS MC production on Grid
- Since two years ago, more or less, at Physics Applications Software group at BNL
  - Software for ATLAS
  - Support for small VOs on OSG
  - And coordinator of Outreach for South America (you!)

GRID Colombia

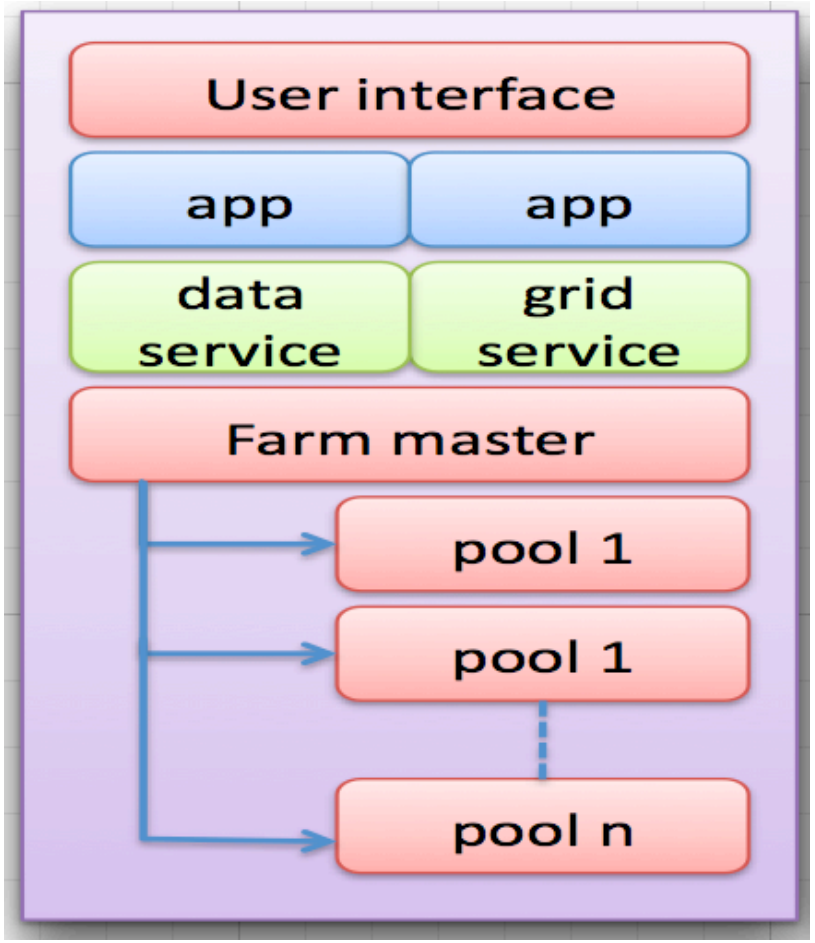
# Launching a Grid Colombia

- Phase I:
  - preparations in advance of the in-person workshop
- Phase II:
  - workshop on scientific computing on Grids and Grid prototype building (that's this workshop!)
  - Development of a program of work
- Phase III:
  - deployment of production facilities across multiple sites in Colombia

# Site Architecture

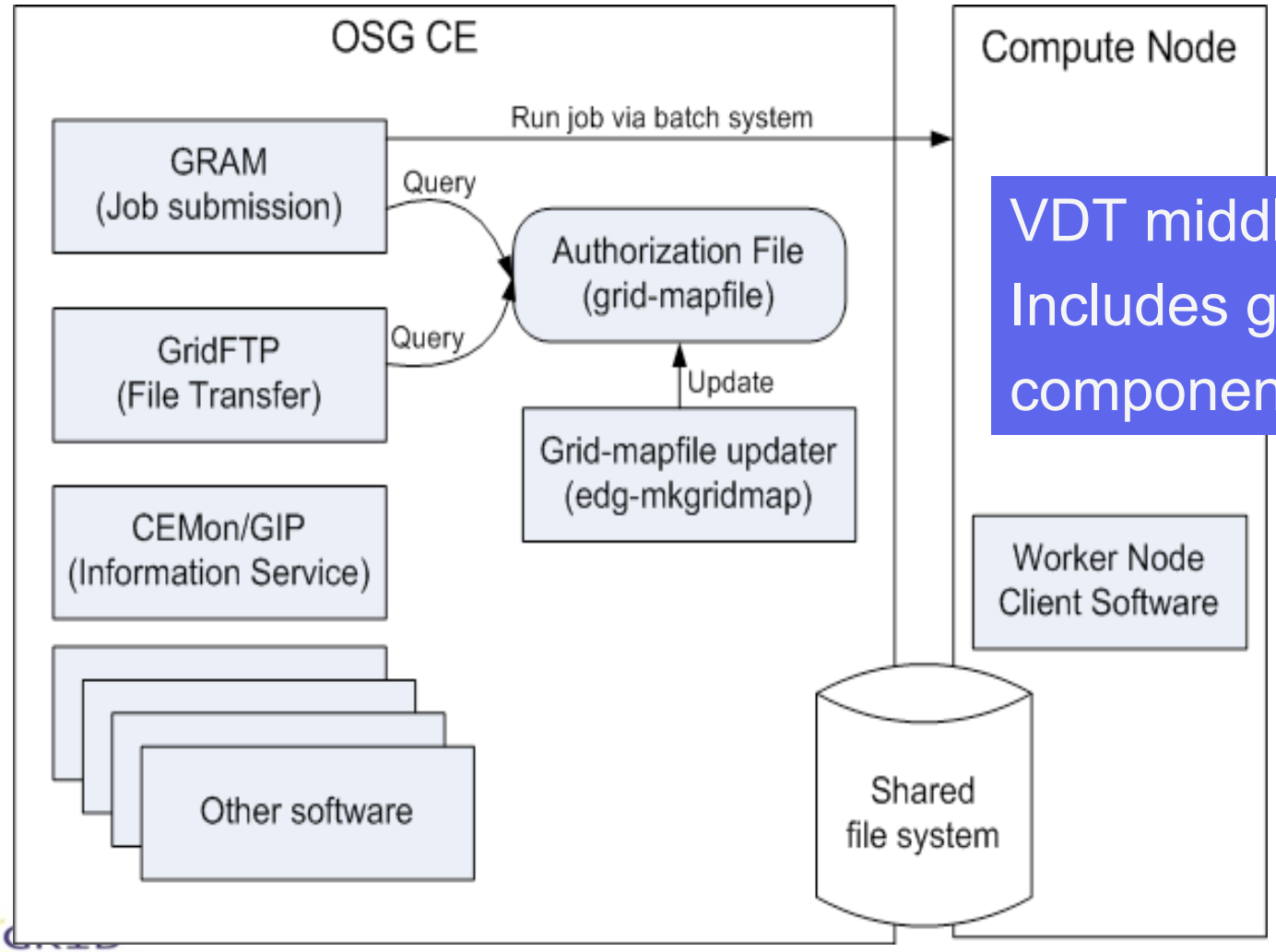


- Each site will be the equivalent to this
- Condor
- Globus: gram, gridftp
- User interface (local & grid)
- Ganglia monitor




GRID Colombia

# The OSG: a simple site



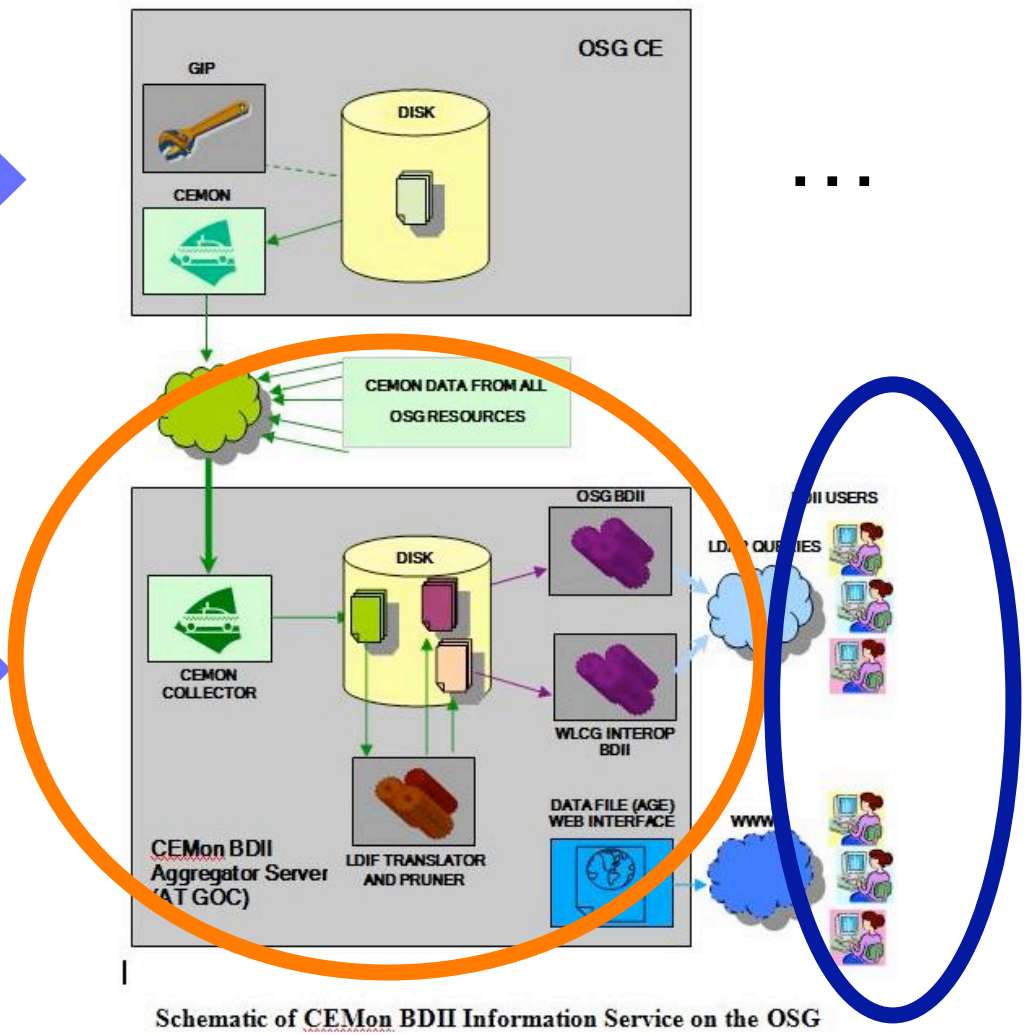
# GOC services

- GOCs are facilities usually provided at the national level as part of a NGI (National Grid Infrastructure)
- There are many services provided by the GOC
  - Organizational (registration db, web portals)
  - Security (RA) and Operations (tickets, calls)
  - Technical services (hosted grid central services)

# Sites, Central Services & Users

Sites

GOC

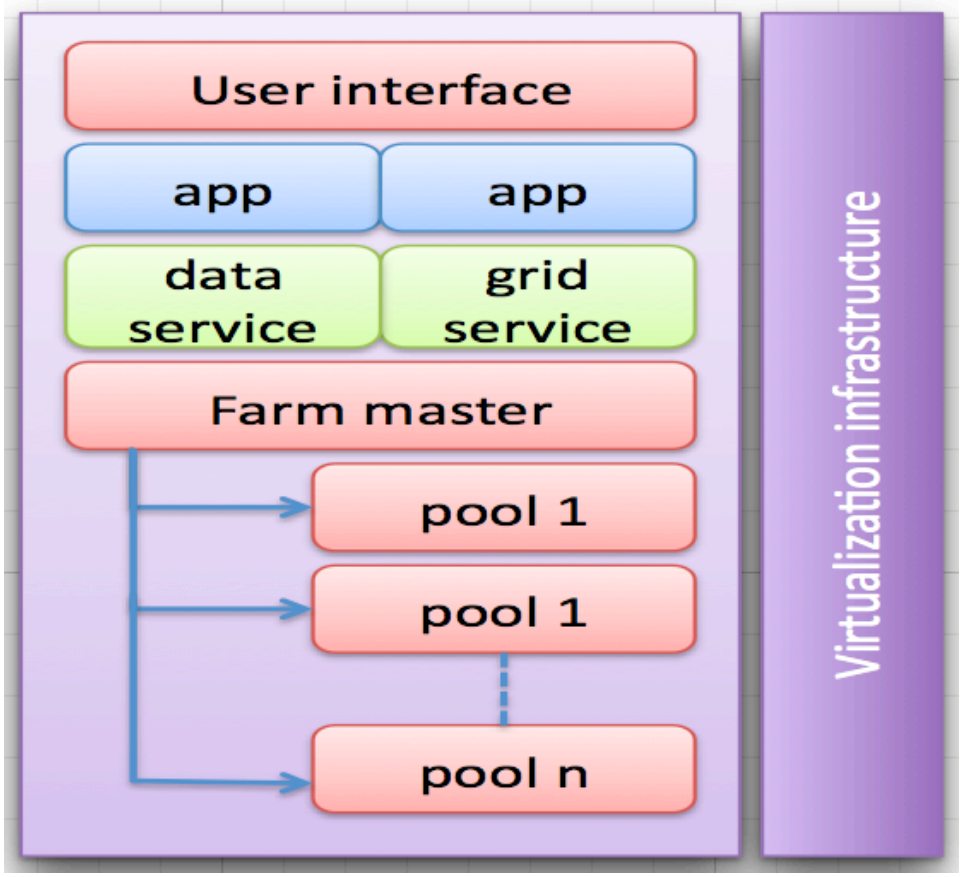



Schematic of CEMon BDII Information Service on the OSG

...

Users
& VOs

# Virtualized Reference Site




**gs1-nfs.mwt2.org**
**gs1-ce.mwt2.org**
**gs1-se.mwt2.org**
**gs1-gums.mwt2.org**
**gs1-cli.mwt2.org**
**gs1-c001.mwt2.org**
**gs1-c002.mwt2.org**
**gs1-c003.mwt2.org**

GRID Colombia

This will be available for your login inspection

# Workshop Email List

- Workshop mailing list
  - gridco-ws09@opensciencegrid.org
  - Email listserv@opensciencegrid.org with `subscribe gridco-ws09 Firstname Lastname` in the message body (no subject needed)
    - Make sure to send from your preferred account

# Workshop Web Resources

- Main agenda

http://indico.fnal.gov/conferenceOtherViews.py?view=standard&confId=3137

- Technical references (this week)

https://twiki.grid.iu.edu/bin/view/ReleaseDocumentation/GridColombiaWorkshop2010