



DIRAC testbed

SuperBDIRAC development

Bruno Santeramo

24/01/2013



# Queries in SBKService for job monitoring



- `SELECT count(runnum) as tot FROM "<session_name>"_Job " WHERE (prod_series = '<prod_series>') AND (runnum BETWEEN "<minrun>" AND "<maxrun>") AND (status!='prepared')";`
- `SELECT * FROM "<session_name>"_Job " WHERE (prod_series = '<prod_series>') AND runnum = '<runnum>';`
- **`UPDATE "<session_name>"_Job SET grid_job_id = "<job_id>", status = 'submitted', ts_submitted = cast(now) as timestamp(0) WHERE prod_series = '<prod_series>' AND runnum = "<runnum>" AND status = 'prepared';`**
- `UPDATE "<session_name>"_Submission SET bulk_job_id || ('<site>' => '<bulk_job_id>') WHERE uid = '<uid>' AND ts_prepared = '<timestamp>';`



# BACKUP SLIDES



# Credits



- Marcin Chrzaszcz    Kracow
- Christian De Santis    Rome
- Giacinto Donvito    Bari
- Armando Fella    Pisa
- Rafał Grzymkowski    Kracow
- Bruno Santeramo    Bari
- Miłosz Zdybał    Kracow

Thanks to DIRAC developers, especially to  
Andrei Tsaregorodtsev, Federico Stagni, Matvey Sapunov,  
Krzysztof Daniel Ciba, Ricardo Graciani, Adrian Casajus



# Groups



## Groups and Role in VO and DIRAC

| Group/Role                           | Type                | Description                                   | VO share | DIRAC mapping        |
|--------------------------------------|---------------------|-----------------------------------------------|----------|----------------------|
| /superbvo.org                        | Standard User       | Generic user group                            | 0        | sb_user              |
| /superbvo.org/Role=ProductionManager | Production Manager  | User role related to MC production management | 20       | sb_productionmanager |
| /superbvo.org/Role=SoftwareManager   | Software Manager    | VO Software administrator                     | 0        | sb_softwaremanager   |
| /superbvo.org/Role=Analysis          | Standard User       | User role related to analysis task            | 0        | sb_analysis          |
|                                      | DIRAC administrator | DIRAC administrator                           |          | dirac_admin          |
|                                      | DIRAC pilot job     | Useful for DIRAC                              |          | sb_pilot             |



# DIRAC API



- DIRAC offers a powerful set of API
  - We need a good quality documentation to speed up development
- API documentation
  - <http://diracgrid.org/files/docs/CodeDocumentation/API/index.html>
  - Epydoc generated – updated – maintained by developers



# Useful links



- **DIRAC official site**
  - <http://diracgrid.org/>
- **DIRAC official forum**
  - <https://groups.google.com/forum/?hl=en&fromgroups#!forum/diracgrid-forum>
- **DIRAC repository**
  - <https://github.com/DIRACGrid>
- **DIRAC API documentation**
  - <http://diracgrid.org/files/docs/CodeDocumentation/API/index.html>
- **DIRAC testbed for SuperB wiki page**
  - [http://mailman.fe.infn.it/superbwiki/index.php/Distributed\\_Computing/Dirac\\_testbed](http://mailman.fe.infn.it/superbwiki/index.php/Distributed_Computing/Dirac_testbed)
- **DIRAC testbed webportals:**
  - [bbrbuild01.cr.cnaf.infn.it](http://bbrbuild01.cr.cnaf.infn.it)
    - <https://bbrbuild01.cr.cnaf.infn.it:8443/DIRAC/>
  - [sb-serv04.cr.cnaf.infn.it](http://sb-serv04.cr.cnaf.infn.it)
    - <https://sb-serv04.cr.cnaf.infn.it:8443/DIRAC/>
- **Production WebUI**
  - [https://bbr-serv09.cr.cnaf.infn.it:8443/~webui\\_sbk5/](https://bbr-serv09.cr.cnaf.infn.it:8443/~webui_sbk5/)
- **SuperB resources (google Doc)**
  - <https://docs.google.com/spreadsheet/ccc?key=0AsjxRpEZ2zEIIdHU2cjh4YTdrajdYdlNmajdBVGZWLWc#gid=0>
- **SuperB Production Shifter Guide wiki page**
  - [http://mailman.fe.infn.it/superbwiki/index.php/Distributed\\_Computing/Production\\_Shift\\_Guide](http://mailman.fe.infn.it/superbwiki/index.php/Distributed_Computing/Production_Shift_Guide)

# WebUI workflow

