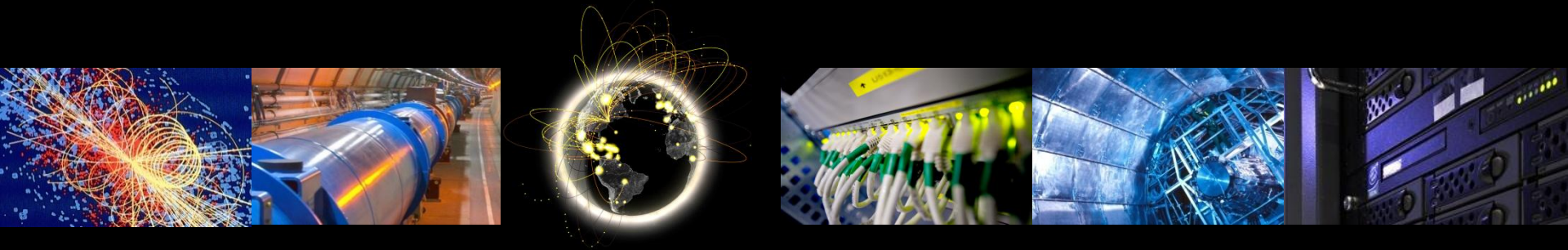


How to identify the best top level BDIs?

Maria Alandes Pradillo, CERN

CERN IT Department, Grid Technology Group

GDB 11th July 2012



Preliminary list

- There is indeed a way to check how LCG_GFAL_INFOSYS is configured
 - SAM WN probe (org.sam-WN-RepISenv)
 - Thanks to a DB query from the SAM team
 - 526 CEs queried -> 526 WNs verified
 - All WNs under a CE should be configured identically
 - The following numbers show how LCG_GFAL_INFOSYS is configured

Preliminary list

WNs configured with:

- 1 BDII in LCG_GFAL_INFOSYS: 388
- 2 BDIIs in LCG_GFAL_INFOSYS: 51
- 3 BDIIs in LCG_GFAL_INFOSYS: 61
- 4 BDIIs in LCG_GFAL_INFOSYS: 20
- 5 BDIIs in LCG_GFAL_INFOSYS: 2
- 7 BDIIs in LCG_GFAL_INFOSYS: 3
- 8 BDIIs in LCG_GFAL_INFOSYS: 1

- Only 11% are “properly” configured

- Remember from last GDB?

- LCG_GFAL_INFOSYS has to be configured with 3 top level BDIIs:
 - » 1st and 2nd in the list: Regional BDIIs
 - » 3rd in the list: CERN BDII

Preliminary list

20 most configured BDIIs in LCG_GFAL_INFOSYS

BDII host name	Number of WNs configuring the BDII	Country	Tier
egee-bdii.cnaf.infn.it	91	Italy	1
lcg-bdii.cern.ch	88	Switzerland	0
topbdii.core.ibergrid.eu	48	Spain	1
lcg-bdii.gridpp.ac.uk	32	UK	1
topbdii.grid.hep.ph.ic.ac.uk	28	UK	2
cclcgtopbdii01.in2p3.fr	27	France	1
bdii.grid.sara.nl	27	The Netherlands	1
lcgbdii.gridpp.rl.ac.uk	27	UK	1
bdii-fzk.gridka.de	27	Germany	1
bdii03.nikhef.nl	25	The Netherlands	1
topbdii.grif.fr	23	France	2
bdii2.grid.sara.nl	20	The Netherlands	1
bdii.grid.sinica.edu.tw	17	Taiwan	1
bdii.pic.es	15	Spain	1
top-bdii.rediris.es	15	Spain	2
bdii.hellasgrid.gr	14	Greece	2
bdii.cyf-kr.edu.pl	13	Poland	2
bdii.core.hellasgrid.gr	12	Greece	2
top-bdii.triumf.ca	12	Canada	1
top-bdii.tier2.hep.manchester.ac.uk	12	UK	2

Selection Criteria

- The recommended BDIs should provide:
 - Load balancing
 - Be geographically distributed
 - High percentage of Up time
 - How much is “high”?
 - Agreement with the site to be in the recommended list.
 - Any other criteria?

Next steps

- Feedback from the GDB
- Finish analysis of preliminary list
- Get in contact with sites
- Publish the recommended list
 - Twiki page?
- Monitor LCG_GFAL_INFOSYS to see whether sites are using the recommended BDIIs
 - Should we add a test to check that LCG_GFAL_INFOSYS is correctly configured?
- Focus support on the recommended top level BDIIs

Conclusions:

- No changes in the sites supporting the recommended list
- Improved fail over process
- Feedback needed:
 - Does the proposed approach make sense?
 - Any other suggestions?