OMB:Ibergrid-QR11

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Quarterly Report Number	NGI Name	Partner Name	Author
QR11	NGI_IBERGRID	LIP & CSIC	Esteban Freire (CESGA), Alvaro Simón (CESGA)

1. MEETINGS AND DISSEMINATION

Note: Complete the tables below by adding as many rows as needed.

1.1. CONFERENCES/WORKSHOPS ORGANISED

Date	Location	Title	Participants	Outcome (Short report & Indico URL)
7-9 Nov 2012	Lisbon, Portugal	IBERGRID 2012, 6th Iberian Grid Infrastructure Conference	50	The 2012 IBERGRID conference was organized by LIP in Lisbon, Portugal. The main topics of IBERGRID 2012 Conference were: • Infrastructures, Services and Operations • Innovation in the provision of IT services: virtualization and cloud computing • Data Management and Storage Systems • IT Management and Green Computing • EGI and WLCG Grid Computing Activities • Digital Repositories and Preservation • Community Oriented Services • User and Applications • Technology Transfer to Society This is the annual meeting gathering IBERGRID operators and user communities to reassess the past activities, debate problems and define joint strategies. Conference URL: http://www.ibergrid.eu/2012

1.2. OTHER CONFERENCES/WORKSHOPS ATTENDED

Date	Location	Title	Participants	Outcome (Short report & Indico URL)
4-5 Nov 2012	CERN	CMS Offline and Computing Week	1	* IFAE: Followup of the CMS computing activities and its impact on the Tier1 operations and plans, [1]

7-9 Nov 2012	Lisbon, Portugal	IBERGRID 2012, 6th Iberian Grid Infrastructure Conference	50	Conference Programe URL: [2] • BIFI-UNIZAR 1. A. Giner et al, Hadoop Cloud SaaS access via WS-PGRADE adaptation • CAFPE-GRANADA 1. Julio Lozano-Bahilo, Pierre Auger Collaboration on Grid • CESGA: 1. A. Simon et al, New deployments on EGI Verification and Staged Rollout processes 2. A. Simon et al, EGI Fedcloud Task Force • CIEMAT 1. A. Delgado et al, Synchronization and Versioning of Cluster Configuration with Csync 2. M. Cárdena Montes et al, New Computational Developments in Cosmology • IFCA 1. P. Orviz et al, Production change management using Puppet, Git, Jenkins and Gerrit 2. E. Fernandez et al, IberCloud: federated access to virtualized resources 3. E. Fernandez, IberCloud Symposium: Theory and practice • IFIC 1. M. Kaci et al, Response of the Iberian Grid Computing Resources to the ATLAS activities during the LHC data-taking 2. M. Kaci et al, Data Management and Data Processing within a Grid Computing Model for AGATA • IFISC-GRID 1. A. Tugores and P. Colet, Poster: Integration of Web4Grid with intranet at CSIC 2. A. Tugores and P. Colet, Poster: Efficient file management • LIP 1. G. Borges et al, IBERGRID: Deploying User Oriented Services 2. G. Borges et al, IBERGRID Infrastructure Status 3. J. Gomes et al, Clustering TopBDII systems with dynamic round-robin DNS 4. G. Borges et al, Operations Management discussions

				• PIC 1. V. Méndez, Running in Federated Clouds with DIRAC • UNICAN 1. C. Blanco et al, WRF4SG: A Scientific Gateway for the Weather Research and Forecasting model community • UB 1. R. Graciani, Dirac Tutorial • UMINHO-CP 1. V. Oliveira, Even Bigger Data: Preparing for the LHC/ATLAS Upgrade • UPV 1. I. Blanquer et al, Requirements of Scientific Applications in Cloud Offerings 2. M. Caballer et al, Towards SLA-driven Management of Cloud Infrastructures to Elastically Execute Scientific Applications • USC 1. V. Fernandez, User access to CVMFS software repositories on Ibergrid
16 Nov 2012	Madrid (Spain)	BigData Spain 2012	1	• IFISC-GRID: Programme available at [3]
28-29 Nov 2012	Bilbao (Spain)	RedIris Network	(~ 20)	Annual workshop organised by NREN. Followup of technical issues related to network, programme available at [4] • IFAE: Presentation from PIC on the plans from LHC to exploit the new high performance network infrastructure Rediris-Nova through LHCONE • IFIC • RedIRIS • USC
13-14 December 2012	CERN	LHCONE Point-to-Point Service Workshop	1	• IFAE: Network workshop focused on the technical details of the deployment of a dedicated high performance network infrastructure to connect Tier2s and Tier1s, [5]
28-30 Jan 2013	Amsterdam	Evolving EGI Workshop and co-located e-FISCAL Workshop	1	• CESGA: Programme available at [6]

1.3. PUBLICATIONS

Publication title	**Journal / Proceedings title**	**Journal references** ***Volume number*** ***Issue*** ***Pages from - to***	**Authors *1.*** ***2.*** ***3.*** ***Et al?***
Superconducting Vortex Lattice Configurations on Periodic Potentials: Simulation and Experiment	J. Superconducting Novell Magnetism.	• Year 2012 • Vol.: 25 • pp.: 2127–2130 • DOI: 10.1007/s10948-012-1636-8	1. M. Rodríguez-Pascual 2. A. Gómez 3. R. Mayo-García 4. D. Pérez de Lara 5. E.M. González 6. A.J. Rubio-Montero 7. J.L. Vicent

Dimensioning storage and computing clusters for efficient high throughput computing	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 042040	1. E. Accion 2. A. Bria 3. G. Bernabeu 4. M. Caubet 5. M. Delfino 6. X. Espinal 7. G. Merino 8. F. Lopez 9. F. Martinez 10. E. Planas
Monitoring techniques and alarm procedures for CMS Services and Sites in WLCG	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 042041	1. J. Molina-Perez 2. D. Bonacorsi 3. O. Gutsche 4. A. Sciabà 5. J. Flix 6. P. Kreuzer 7. E. Fajardo 8. T. Boccali 9. M. Klute 10. D. Gomes 11. R. Kaselis 12. R Du 13. N Magini 14. I Butenas 15. W Wang
CMS Data Transfer operations after the first years of LHC collisions	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 042033	1. R. Kaselis 2. S. Piperov 3. N. Magini 4. J. Flix 5. O. Gutsche 6. P. Kreuzer 7. M. Yang 8. S. Liu 9. N. Ratnikova 10. A. Sartirana 11. D. Bonacorsi 12. J. Letts
Providing global WLCG transfer monitoring	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 032005	1. J. Andreeva 2. D. Dieguez Arias 3. S. Campana 4. J. Flix 5. O. Keeble 6. N. Magini 7. Z. Molnar 8. D. Oleynik 9. A. Petrosyan 10. G. Ro 11. P. Saiz 12. M. Salichos 13. D. Tuckett 14. A. Uzhinsky 15. T. Wildish

Service monitoring in the LHC experiments	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 032010	1. Fernando Barreiro Megino 2. Vincent Bernardoff 3. Diego da Silva Gomes 4. Alessandro di Girolamo 5. José Flix 6. Peter Kreuzer 7. Stefan Roiser
CMS resource utilization and limitations on the grid after the first two years of LHC collisions	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 032012	1. Giuseppe Bagliesi 2. Kenneth Bloom 3. Daniele Bonacorsi 4. Chris Brew 5. Ian Fisk 6. Jose Flix 7. Peter Kreuzer 8. Andrea Sciaba
Performance studies and improvements of CMS distributed data transfers	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 032040	1. D. Bonacorsi 2. J. Flix 3. R. Kaselis 4. J. Letts 5. N. Magini 6. A Sartirana
Towards higher reliability of CMS computing facilities	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 032041	1. G. Bagliesi 2. K. Bloom 3. C. Brew 4. J. Flix 5. P. Kreuzer 6. A. Sciabà
The benefits and challenges of sharing glidein factory operations across nine time zones between OSG and CMS	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 032103	1. I. Sfiligo 2. J. M. Dost 3. M. Zvada 4. I. Butenas 5. B. Holzman 6. F. Wuerthwein 7. P. Kreuzer 8. S. W. Teige 9. R. Quick 10. J. M. Hernández 11. J. Flix
Automating ATLAS Computing Operations using the Site Status Board	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 032072	1. Andreeva J. 2. Borrego Iglesias C. 3. Campana S. 4. Di Girolamo A. 5. Dzhunov I. 6. Espinal Curull X. 7. Gayazov S. 8. Magradze E 9. Nowotka M. M. 10. Rinaldi L. 11. Saiz P. 12. Schovancova J. 13. Stewart G. A. 14. Wright M.

Major Changes to the LHCb Grid Computing Model in Year 2 of LHC Data	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 032092	1. L. Arrabito 2. V. Bernardoff 3. D. Bouvet 4. M. Cattaneo 5. Charpentier 6. P. Clarke 7. J Closier 8. P. Franchini 9. R. Graciani 10. E. Lanciotti 11. V. Mendez 12. S. Perazzini 13. R. Nandkumar 14. D. Remenska 15. S. Roiser 16. V. Romanovskiy 17. R. Santinelli 18. F. Stagni 19. A. Tsaregorodtsev 20. M. Ubeda Garcia 21. A. Vedaee 22. A Zhelezov
Status of the DIRAC Project	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 032107	1. A. Casajus 2. K. Ciba 3. V. Fernandez 4. R. Graciani 5. V. Hamar 6. V. Méndez 7. S. Poss 8. M. Sapunov 9. F. Stagni 10. A. Tsaregorodtsev 11. M. Ubeda
The Integration of CloudStack and OCCI/OpenNebula with DIRAC	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 032075	1. Víctor Méndez Muñoz 2. Víctor Fernández Albor 3. Ricardo Graciani Diaz 4. Adriàn Casajús Ramo 5. Tomás Fernández Pena 6. Gonzalo Merino Arévalo 7. Juan José Saborido Silva
Trying to predict the future – resource planning and allocation in CMS	Journal of Physics: Conference Series / International Conference on Computing in High Energy and Nuclear Physics 2012 (CHEP2012)	2012 J. Phys.: Conf. Ser. 396 042035	1. Kenneth Bloom 2. Ian Fisk 3. Peter Kreuzer 4. Gonzalo Merino

2. ACTIVITY REPORT

2.1. Progress Summary

1. Follow up security issues with IBERIAN sites according to what is reported in the security dashboard.
2. Follow up the monthly A/R report for IBERIAN sites failing the threshold.
3. Follow up of the status of IBERIAN sites in GSTAT.
4. Follow up with sites which were publishing accounting data with unknown UserDNs.
5. Follow up with sites that had to republish accounting data, and coordinate with the Accounting Repository staff for the republishing of large amounts of data.
6. Follow up site's UMD upgrade within IBERGRID. NGI GGUS tickets were opened to sites requesting upgrade plans. Tickets were reviewed on a weekly basis.
7. Follow up all questions from IBERIAN sites regarding the upgrade to UMD (doubts, issues, questions).
8. Dissimination of the UMD upgrade calendar and of the imposed policies to follow up the implementation of such calendar.
9. Providing information about Ibergrid NGI documentation, http://ibergrid.lip.pt/
10. Provide information about Federation of NGI services and central coordination for Portugal and Spain, https://wiki.egi.eu/wiki/Operations_Surveys#Federation_of_NGI_services_and_central_coordination
11. Coordination for the migration of important regional services (R-Nagios, VOMS, LFC, WMS and Top-BDIIs).

2.2. Main Achievements

1. GGUS/Ibergrid-RT integration finished: Ibergrid's helpdesk launched into production on January 30th, since all the testing and integration with GGUS have been successfully accomplished.
2. Moving from EVO to SeeVogh application to organize the Ibergrid Operations meeting. Currently, these meetings are organizing every Monday morning.
3. A systematic 100% A/R (6 months in a row) for the TopBDII service (after the implementation of the TopBDII HA mechanism).
4. Major UMD upgrades for services operated by the NGI were successfully carried out with minimum interference in users activity (including R-NAGIOS).
5. All the Ibergrid sites were following the calendar for UMD migration and all the tickets regarding unsupported gLite middleware were closed.
6. Solving GGUS ticket: #90450 "NGI_IBERGRID - core services grouping action" - It was created "NGI_IBERGRID_SERVICES" group service on GOCDB, https://goc.egi.eu/portal/index.php?Page_Type=View_Object&object_id=120331&grid_id=0
7. Solving the issue with Nagios WN probes on Scientific Linux 6 OS. The package "grid-monitoring-probes-org.sam" was updated on the Ibergrid Regional Nagios. It can be found more information on the following link, https://tomtools.cern.ch/jira/browse/SAM-2999.One Ibergrid site was affected by this issue and in consequence, they get the 0% in the A/R reports for September and October.

2.3. Issues and mitigation

Issue Description	Mitigation Description
There was an issue related with fetch-crl crond on the Ibergrid Regional Nagios and it was not able to generate a new proxy and submit the Nagios probes during 9 hours on the 31/12/2012.	Recomputation of A/R was requested and performed in • [7]

References

[1] https://indico.cern.ch/conferenceDisplay.py?confId=171869
[2] http://www.ibergrid.eu/2012/index.php?option=2
[3] http://www.bigdataspain.org/en/
[4] http://www.rediris.es/jt/jt2012/
[5] https://indico.cern.ch/conferenceDisplay.py?confId=215393
[6] https://indico.egi.eu/indico/conferenceTimeTable.py?confId=1252#20130130
[7] https://ggus.eu/ws/ticket_info.php?ticket=90037

Article Sources and Contributors

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