Deployment Update

Deployment Board
3rd March 2005

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Planning

More information will be available here: http://www.gridpp.ac.uk/deployment/planning/
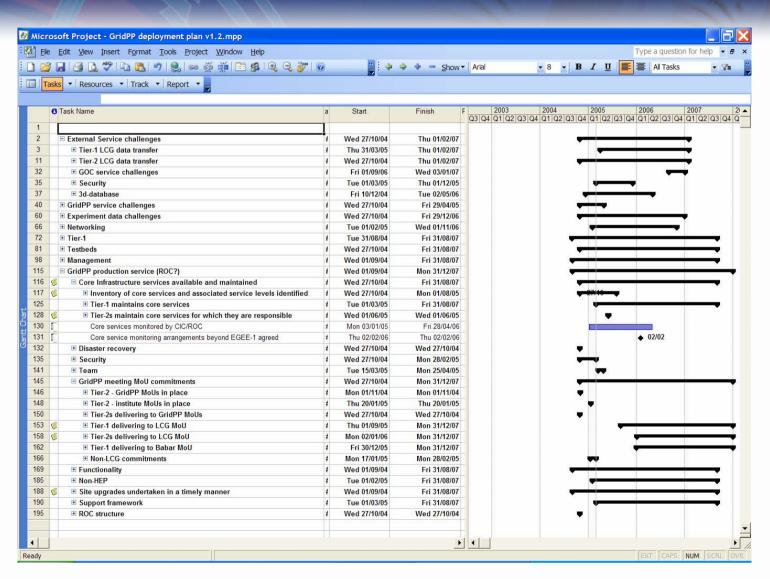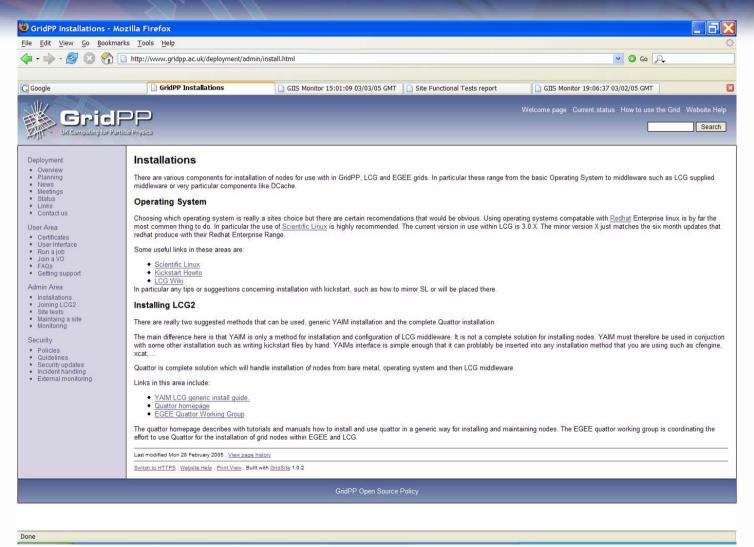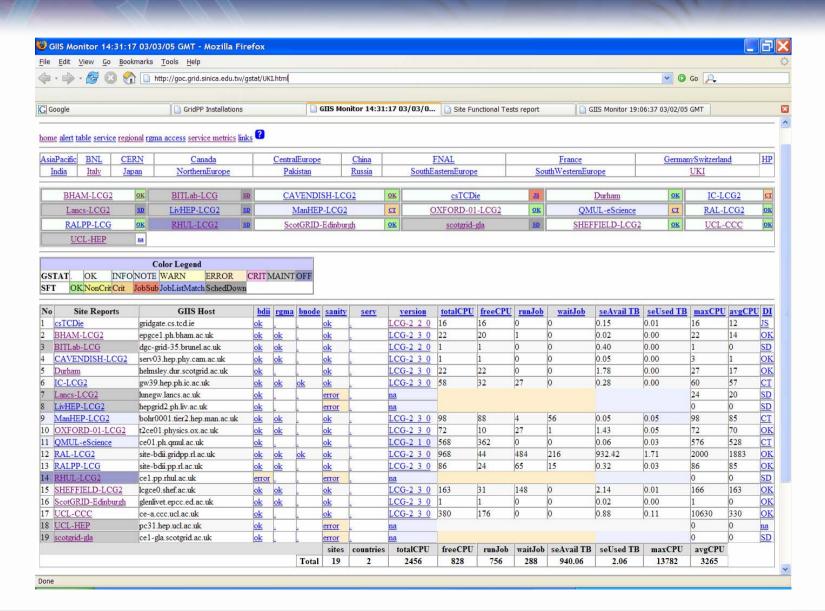
GridPP deployment pages

We intend to release these pages shortly (next week) but will need to "smooth the edges a bit" over the next few weeks. Keeping good links is essential
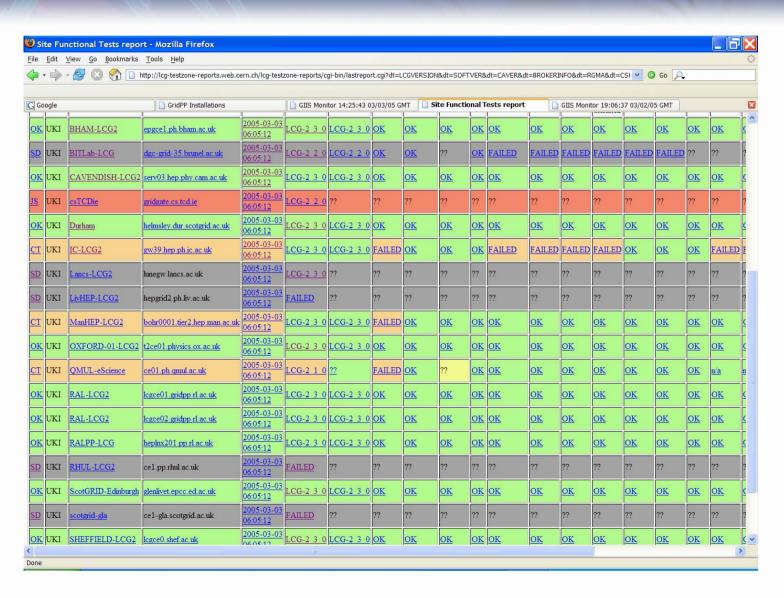
3

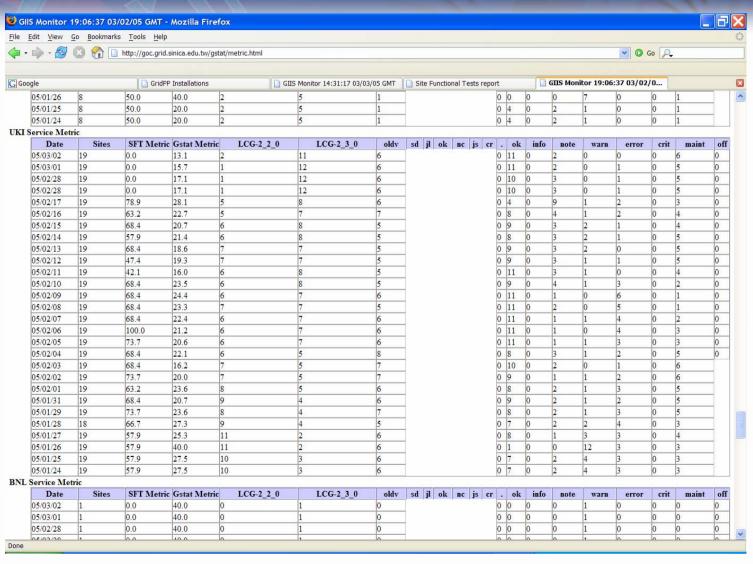# gstat

Monitoring is improving

5

UKI service metric

GridPP — UK Computing for Particle Physics

GIIS Monitor 19:06:37 03/02/05 GMT - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://goc.grid.sinica.edu.tw/gstat/metric.html

| Google | GridPP Installations | GIIS Monitor 14:31:17 03/03/05 GMT | Site Functional Tests report | GIIS Monitor 19:06:37 03/02/0... |

Date	Sites	SFT Metric	Gstat Metric	LCG-2_2_0	LCG-2_3_0	oldv	sd	jl	ok	nc	js	cr	.	ok	info	note	warn	error	crit	maint	off
05/01/26	8	50.0	40.0	2	5	1							0	0	0	0	7	0	0	1	
05/01/25	8	50.0	20.0	2	5	1							0	4	0	2	1	0	0	1	
05/01/24	8	50.0	20.0	2	5	1							0	4	0	2	1	0	0	1	

UKI Service Metric

Date	Sites	SFT Metric	Gstat Metric	LCG-2_2_0	LCG-2_3_0	oldv	sd	jl	ok	nc	js	cr	.	ok	info	note	warn	error	crit	maint	off
05/03/02	19	0.0	13.1	2	11	6							0	11	0	2	0	0	0	6	0
05/03/01	19	0.0	15.7	1	12	6							0	11	0	2	0	1	0	5	0
05/02/28	19	0.0	17.1	1	12	6							0	10	0	3	0	1	0	5	0
05/02/28	19	0.0	17.1	1	12	6							0	10	0	3	0	1	0	5	0
05/02/17	19	78.9	28.1	5	8	6							0	4	0	9	1	2	0	3	0
05/02/16	19	63.2	22.7	5	7	7							0	8	0	4	1	2	0	4	0
05/02/15	19	68.4	20.7	6	8	5							0	9	0	3	2	1	0	4	0
05/02/14	19	57.9	21.4	6	8	5							0	8	0	3	2	1	0	5	0
05/02/13	19	68.4	18.6	7	7	5							0	9	0	3	2	0	0	5	0
05/02/12	19	47.4	19.3	7	7	5							0	9	0	3	1	1	0	5	0
05/02/11	19	42.1	16.0	6	8	5							0	11	0	3	1	0	0	4	0
05/02/10	19	68.4	23.5	6	8	5							0	9	0	4	1	3	0	2	0
05/02/09	19	68.4	24.4	6	7	6							0	11	0	1	0	6	0	1	0
05/02/08	19	68.4	23.3	7	7	5							0	11	0	2	0	5	0	1	0
05/02/07	19	68.4	22.4	6	7	6							0	11	0	1	1	4	0	2	0
05/02/06	19	100.0	21.2	6	7	6							0	11	0	1	0	4	0	3	0
05/02/05	19	73.7	20.6	6	7	6							0	11	0	1	1	3	0	3	0
05/02/04	19	68.4	22.1	6	5	8							0	8	0	3	1	2	0	5	0
05/02/03	19	68.4	16.2	7	5	7							0	10	0	2	0	1	0	6	
05/02/02	19	73.7	20.0	7	5	7							0	9	0	1	1	2	0	6	
05/02/01	19	63.2	23.6	8	5	6							0	8	0	2	1	3	0	5	
05/01/31	19	68.4	20.7	9	4	6							0	9	0	2	1	2	0	5	
05/01/29	19	73.7	23.6	8	4	7							0	8	0	2	1	3	0	5	
05/01/28	18	66.7	27.3	9	4	5							0	7	0	2	2	4	0	3	
05/01/27	19	57.9	25.3	11	2	6							0	8	0	1	3	3	0	4	
05/01/26	19	57.9	40.0	11	2	6							0	1	0	0	12	3	0	3	
05/01/25	19	57.9	27.5	10	3	6							0	7	0	2	4	3	0	3	
05/01/24	19	57.9	27.5	10	3	6							0	7	0	2	4	3	0	3	

BNL Service Metric

Date	Sites	SFT Metric	Gstat Metric	LCG-2_2_0	LCG-2_3_0	oldv	sd	jl	ok	nc	js	cr	.	ok	info	note	warn	error	crit	maint	off
05/03/02	1	0.0	40.0	0	1	0							0	0	0	1	0	0	0	0	
05/03/01	1	0.0	40.0	0	1	0							0	0	0	1	0	0	0	0	
05/02/28	1	0.0	40.0	0	1	0							0	0	0	1	0	0	0	0	

Done

UKI is now being monitored and assessed within EGEE. We are getting better but our upgrades have been slow overall – partly due to SL3 changes at the same time.

- Continued lack of manpower
- Introduction of gLite
- Late availability of networking
- Hardware procurement problems
- Major security incident
- Grid deployed does not meet user needs
- Deployment mechanism

Key issues

Selection of listed 115 issues

- Communication (LCG/EGEE)
- No single source of (monitoring) information
- Migrating between SRM solutions
- Scheduling of jobs across Tier-2s
- Ensuring sites keeping syslog files
- Lack of understanding of architecture
- Support structure
- "Grid vs local" access to storage
- Lack of knowledge about experiment use of Tier-2s
- Integration with experiments
- Quality of documentation
- "Get fit plan" for metric targets
- Use of application metrics
- University firewalls
- Impact of ARDA developments
- What does "available" really mean
- Clash between Experiment Data Challenges and Service Challenges
- Engagement of institutes in Service Challenges

Site responsibilities

- Report security incidents
- Respond to reported security incidents
- Respond to CIC on duty and ROC (user) mails
- Pro-active monitoring (hardware, functional tests .. RSS feeds only gives replica manager tests... look at gstat)
- Update software in a timely manner (in accordance with LCG release poliy)
- Run agreed software for users (VOs & expts) - e.g. mySQL, web-services?
- Meet scheduling requirements (UB or T2B)
- [What about local users? Where is user support. Does each site have a UI?]
- Notify community of upgrade/downtime schedules
- Feedback issues and coordinate work with Tier-2 coordinator
- Ensure hardware faults are resolved
- Keep backup of logs (dynamic)

GridPP
UK Computing for Particle Physics

- What are the EGEE security challenges
- What is the availability of data transfer tools for GridPP challenges
- Need for security officer to develop better tests – **when will they be recruited**?
- Experiment data challenges – we do not know plans. How should we find out? UB?
- If an **experiment wants to contact a group of sites how** do they do it? Need one contact for each Tier-2 for each VO! How do we monitor problems?
- Expt Tier-2 reps at T2 management meeting. How does this map within EGEE
- What level of disaster recovery planning is required and how does this overlap with the security area (physical security)
- Formal paper complaining about MW violating security policy – appendix SB mail to security list. Cover PBS issue (identity) and WNs outbound connectivity. Risks to site admins in deploying EGEE middleware.
- **What is the MW escalation route for security problems**. What procedures will inform people when things are fixed.
- CA rpms updated on 23rd but no notification given? Tests changed.
- Disk quotas? With 2.4.0 will have DPM/dCache. Can we have a formal UK request!?
- What are our obligations to publish security concerns with applications we would like deployed?

"To set some implementation priorities, what information do we want and will be useful?"

- Job success rate – functional tests are being put in database via R-GMA (6 weeks) (DK). Use L&B (DC). For site configuration use Savannah queries against sites (CIC).

- Use of UK Grid – Accounting views – use per VO per site. UK relative contribution to a VOs running (DK). Use of Ganglia information to indicate percentage of resources utilised.

- Storage – I/O rates into disk servers. Use data in gridFTP files (ML)

- Users –jobs submitted by user(s)

- Network bandwidth – sites to provide nominal network bandwidth data and site connection information (T2)

- STILL NEED to develop a "get fit plan"