The OSG Site Coordination Activity

Rob Gardner
University of Chicago
March 3, 2008
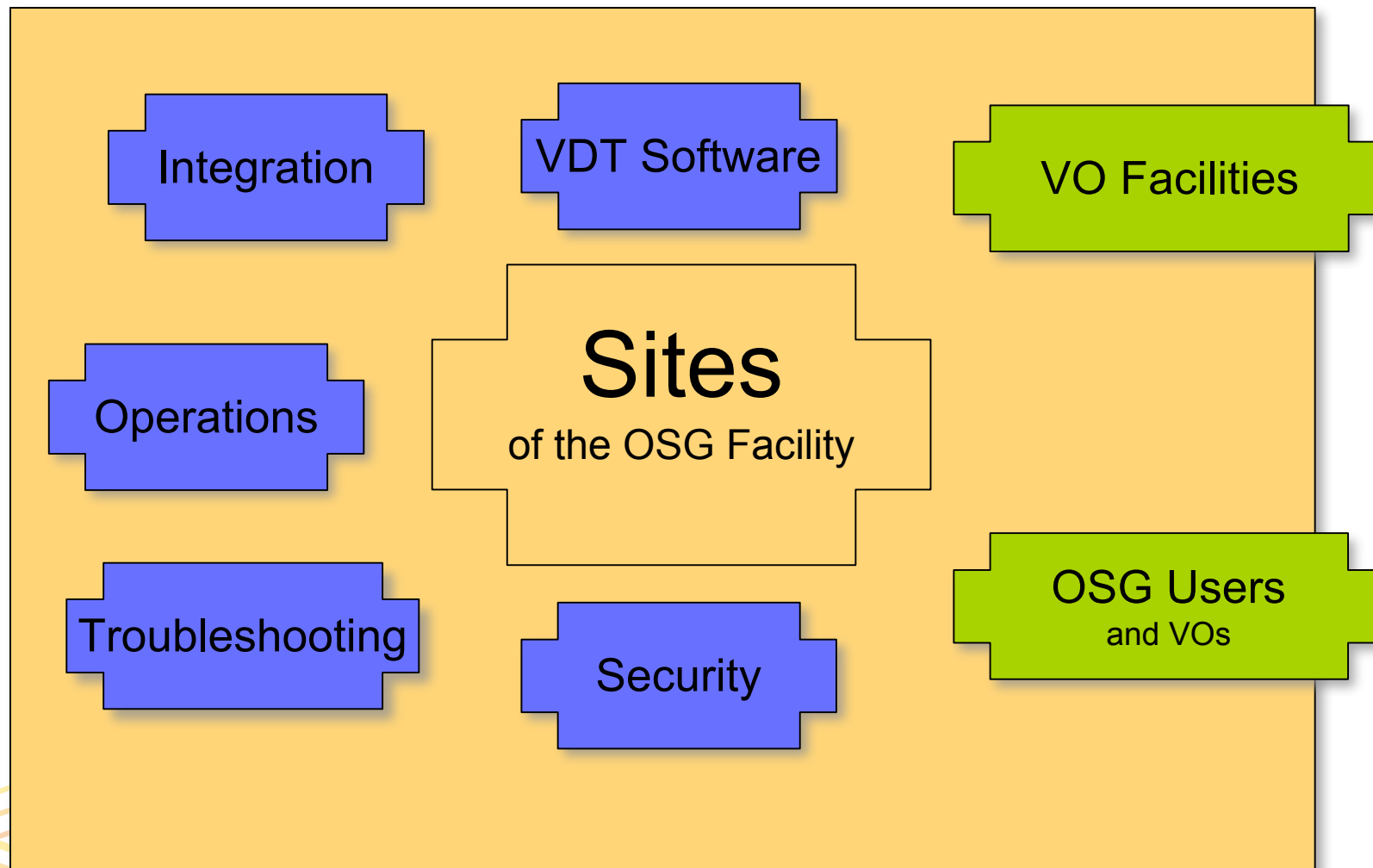
Open Science Grid

Team

- This is a relatively new activity -
  - R.G. (coordinator)
  - Suchandra Thapa
  - Charles Bacon

- We're hear to help **you**, the OSG site administrator: talk to us!
  - osg-sites@opensciencegrid.org
  - soon: twiki web, SiteCoordination

Open Science Grid

Sites in the overall activity

Integration

VDT Software

VO Facilities

Operations

Sites
of the OSG Facility

Troubleshooting

Security

OSG Users
and VOs

Open Science Grid

Project Goals

1.3.2 Site Coordination

1.3.2.1   **Develop benchmarks** for being a "good" OSG sites; audit sites against benchmarks; and support sites in reaching conformance

1.3.2.2   **Monthly analysis of operational metrics** (per OSG metrics plan) to identify "less than optimal sites"; create "work queue" for follow-up functional and diagnostic testing.

1.3.2.3   **Functional/diagnostic testing of OSG sites** (identified via operations metrics analysis) resulting in guidance to site owners on how to improve performance

Open Science Grid

Other Goals

- Help sites provide a higher quality service, to improve the OSG user experience
  - Provide more communication between the OSG Facility project and sites
- Share expertise, tools, tips
  - Periodic face-to-face meetings
  - Monthly telecon meetings (news, user feedback, lightning talks)
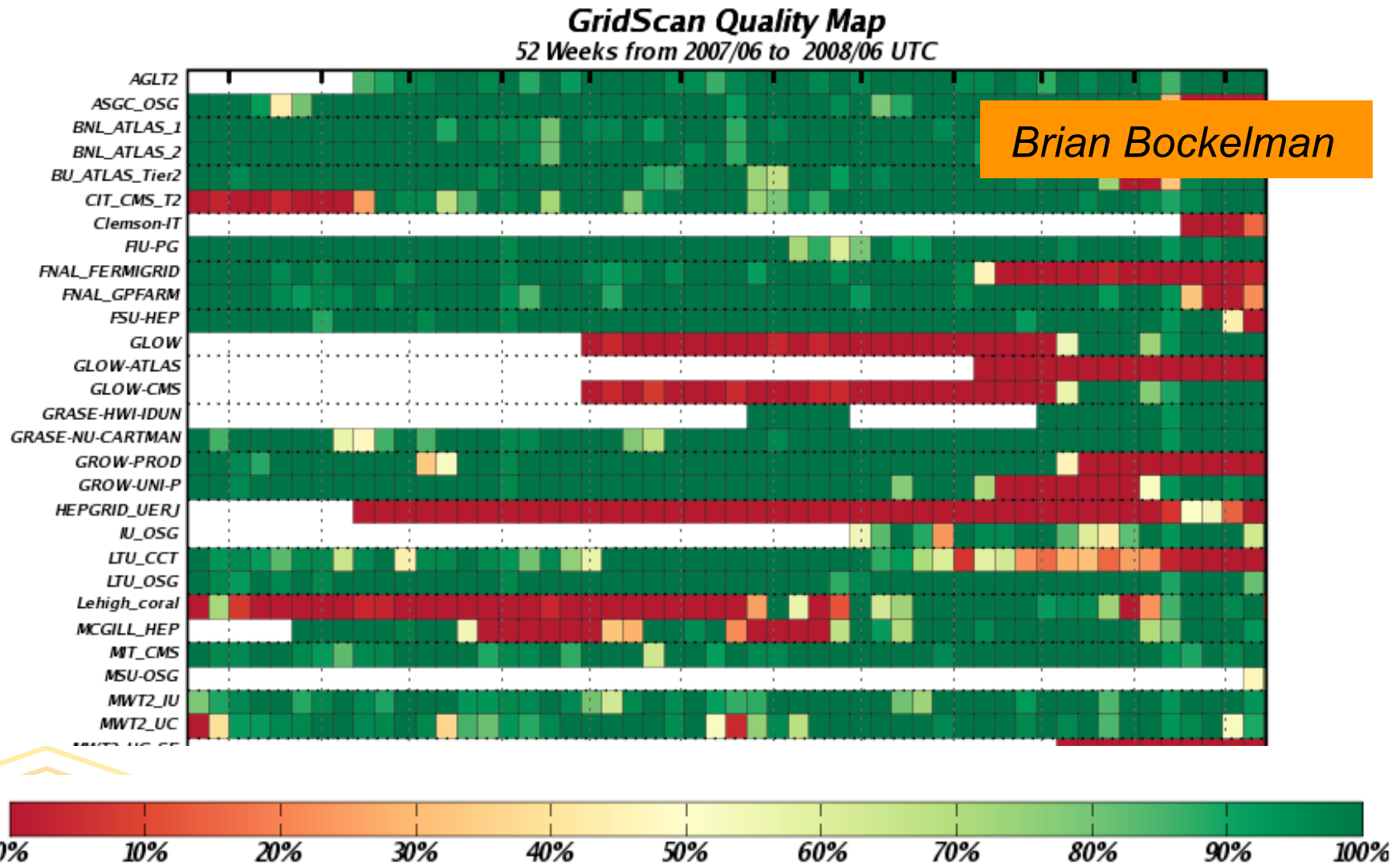- Round up useful tools - community SVN

Open Science Grid

Performance benchmarks

- Help spot recurrent and/or fundamental problems with services at sites
- Provide feedback to site administrators
- Use RSV tools introduced in OSG 0.8 and other tools as appropriate to collect and analyze data
- We need your help in defining "what makes a good OSG site"
  - BOF at lunch today
  - Potentially very interesting area to get involved!

Open Science Grid

eg. Quality Maps

GridScan Quality Map
52 Weeks from 2007/06 to 2008/06 UTC

Brian Bockelman

Open Science Grid

7

Tools for site administrators

- Goal: collect, organize, institutionalize scripts and tools developed in the community to help maintain OSG site services

- Community repositories
  - https://twiki.grid.iu.edu/twiki/bin/view/ReleaseDocumentation/CommunityCodeRepositories

- Today - session led by Jeff Porter (sub for Charles Bacon) to round up To-do list for new tools and hear about some good examples

OSG RSV-(site)Nagios

- Report RSV probe results into familiar service monitor

- Joint project between RSV team, BNL, MWT2_IU (cf S. Williams talk)

org.osg.batch.jobmanager-condor-status	PASV	OK	02-29-2008 06:20:16	6d 15h 4m 33s	1/3	A test job wa "iut2-grid6.ir a valid one up!EOT
org.osg.batch.jobmanager-fork-status	PASV	OK	02-29-2008 06:34:41	8d 16h 39m 0s	1/3	A test job wa "iut2-grid6.ir valid one (" up!EOT
org.osg.batch.jobmanager-loadleveler-status	PASV	UNKNOWN	02-29-2008 06:33:08	6d 15h 4m 32s	3/3	Job manage not supporte
org.osg.batch.jobmanager-lsf-status	PASV	UNKNOWN	02-29-2008 06:47:32	8d 16h 26m 1s	3/3	Job manage supported b
org.osg.batch.jobmanager-managedfork-status	PASV	OK	02-29-2008 06:30:56	6d 15h 4m 32s	1/3	A test job wa "iut2-grid6.ir checked wa succesfully
org.osg.batch.jobmanager-pbs-status	PASV	OK	02-29-2008 06:56:34	6d 15h 4m 32s	1/3	A test job wa "iut2-grid6.ir valid one (" up!EOT
org.osg.batch.jobmanagers-available	PASV	OK	02-29-2008 07:00:48	3d 16h 26m 23s	1/3	Available Ba pbs.pmEOT
org.osg.certificates.cacert-expiry	PASV	OK	02-29-2008 06:11:44	6d 15h 4m 34s	1/3	87 CA certs
org.osg.certificates.crl-expiry	PASV	OK	02-29-2008 06:43:18	8d 16h 39m 2s	1/3	84 CRLs fou

Open Science

Documentation (1/2)

- A major reorganization of the *ReleaseDocumentation* area
  - https://twiki.grid.iu.edu/twiki/bin/view/ReleaseDocumentation/WebHome
- Goal is to have a self-contained, consistent source of information targeted for the OSG site administrator within a TWiki *web*
- Provide reviewing mechanism (ATLAS Workbook model)
- Major thank you to all those providing technical content!

Open Science Grid

Documentation (2/2)

You are here: TWiki > ▤ ReleaseDocumentation Web > ReviewStatus

r9 - 09 Nov 2007 - 16:31:41 -

Review Status

This page gives an inventory of twiki topics in the OSG release documentation twiki, and the state of their completion and review. You may have problems viewing this page if browser is Safari.

Topic	Responsible	Last Modified	Modifier	Last Reviewed	Reviewer	Status	Comment
DownloadOSG	AlainRoy	27 Feb 2008 - 23:23	MarciaTeckenbrock	22 Oct 2007	RobGardner	3	
RegisterResourceWithGOC	KyleGross	22 Feb 2008 - 16:55	AnneHeavey	20 Nov 2007	ThomasWang	3	defined "reasonable del web-form response Tho
VdtUpdateGuide	SuchandraThapa	31 Jan 2008 - 19:41	AnneHeavey	20 Nov 2007	AlainRoy	3	
ResourceName	RobQ	29 Jan 2008 - 18:01	RobQ			3	
InstallConfigureAndManageGUMS	JayPackard	23 Jan 2008 - 01:02	ShreyasCholia			3	

- For OSG 1.0:
  - Very soon current ReleaseDocumentation will freeze - final edits and removal of deprecates
  - *ReleaseDocumentation* will change name

Open Science Grid

11

Today - Morning agenda

09:00 Welcome from the Executive Director   Ruth Pordes
09:10 The OSG Facility   Miron Livny
09:25 The OSG Site Coordination Activity   Rob Gardner
09:40 Expectations of the Sites   Rob Quick
    * Lightning talk: Experiences with RSV   Brian Moe
    * Lightning talk: RSV and Nagios   Sarah Williams
10:20 Coffee
10:40 Logging and Troubleshooting   Brian Tierney
    * Lightning talk: Publication/Protection of Sensitive Info   Shreyas Cholia
    * Lightning talk: Logging and Troubleshooting   Anand Padmanabhan
    * Lightning talk: A Proposed Architecture for OSG Logging   Brian Tierney
11:10 Site Administrators Security Training and Auditing   Mine Altunay
    * Lightning talk: Fermilab Open Science Enclave   Keith Chadwick
    * Lightning talk: Using gLExec to improve security   Alain Roy
11:55 Feedback on OSG 0.8.0 and the Facility Roundtable
    * Lightning talk: Readiness of WS GRAM   Terrence Martin
    * Facility Roundtable
        A.Roy, R.Gardner, R.Quick, Shaowen Wang, Miron Livny, Mine Altunay
12:30 Panel Discussion from the Users Perspective   Abhishek Rana
        Britta Daubert, Mats Rynge, Ajit Mohapatra, Kaushik De
13:05 Lunch
13:20 BOF (45') - Cloud Computing   Kate Keahey

Open Science Grid

Afternoon

14:05   OSG Storage Services (40')   Ted Hesselroth
    * Lightning Talk: VDT-dCache 1.8 installation and functional testing exp. Xin Zhao
    * Lightning Talk: Bestman on Xrootd   Wei Yang
14:45   Configuring OSG - an update (25')   Suchandra Thapa
    * Lightning Talk: Tools for configuring OSG resources   Terrence Martin
    * Lightning Talk: Installing and configuring gLexec   Keith Chadwick
15:05   Discussion: Site Administrators Tools (45')   Jeff Porter
    * Lightning Talk: MOPS:Managed Object Placement Service   Dan Fraser
    * Lightning Talk: Fermilab High Availability Deployment   Keith Chadwick
    * Lightning Talk: Admin tools for OSG at Caltech/CMS   Michael Thomas
15:50   Coffee
16:10   Towards the Release of OSG 1.0   Alain Roy
16:40   Current measurements of Facility performance and capabilities Brian Bockelman
    * Lightning Talk: Panda - job monitoring, performance collection   Kaushik De

Open Science Grid