



Open Science Grid

RSV and Nagios in OSG

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Current State of OSG

- ~ 100 Sites
- ~ 30 VOs
- April 8th:
 - 216,000 jobs (85% successful)
 - 375,000 wallclock hours
 - About half of the jobs were run on resources NOT owned by the VO that owns the resources



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Recent and Upcoming Operations Highlights

- WLCG SAM reporting of availability Statistics
 - SAM Interface
 - GridView Interface
- OIM Registration Database
- RSV Version 2
 - Easier to configure and upkeep
 - SE Probes



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SAM Environment

RegionName	SiteName	NodeName	Status	ops			
				oogodE	ooggs	oogov	oocce
ScienceGrid	AGLT2	gate01.aglt2.org	ERROR	ok	ok	ok	error
ScienceGrid	IU_OSG	m3.quarry.teragrid.iu.edu	ERROR	error	error	error	error
ScienceGrid	MWT2_IU	iut2-grid6.iu.edu	ERROR	ok	error	ok	ok
ScienceGrid	MWT2_UC	uct2-grid6.uchicago.edu	ERROR	error	error	error	error
ScienceGrid	PROD_SLAC	osgserve01.slac.stanford.edu	ERROR	error	error	error	na
ScienceGrid	UC ATLAS MWT2	tier2-osg.uchicago.edu	OK	ok	ok	ok	ok
ScienceGrid	UTA_DPCC	atlas.dpcc.uta.edu	ERROR	warn	ok	ok	error
ScienceGrid	bnl atlas 1	gridgk01.racf.bnl.gov	OK	ok	ok	ok	ok
ScienceGrid	cit cms t2	cit-gatekeeper.ultraviolet.org	ERROR	error	error	error	error
ScienceGrid	fnal fermigrid	fermigrid1.fnal.gov	ERROR	error	error	error	error
ScienceGrid	glow-cms	cmsgrid02.hep.wisc.edu	WARN	warn	ok	ok	ok
ScienceGrid	nebraska	red.unl.edu	OK	ok	ok	ok	ok
ScienceGrid	nysgrid-ccr-u2	u2-grid.ccr.buffalo.edu	OK	ok	ok	ok	na
ScienceGrid	purdue-lear	lepton.rcac.purdue.edu	WARN	warn	ok	ok	ok
ScienceGrid	purdue-rcac	osg.rcac.purdue.edu	WARN	warn	ok	ok	ok
ScienceGrid	ucsdt2	osg-gw-2.t2.ucsd.edu	OK	ok	ok	ok	ok
ScienceGrid	ucsdt2	osg-gw-4.t2.ucsd.edu	OK	ok	ok	ok	ok
ScienceGrid	uflorida-ihepa	hg.ihepa.ufl.edu	OK	ok	ok	ok	ok
ScienceGrid	uflorida-pg	pg.ihepa.ufl.edu	ERROR	error	ok	ok	error

SAM Test Results for site glow-cms

Test Criticality Defining VO : OPS
(Click on the Test Result Graph to View Details)

Service	Node	Test Name	Test VO	Test Help	Critical	Test Results
						<div style="display: flex; justify-content: space-between; font-size: 8px;"> na ok info note warn error crit maint </div>
OSGCE	cmsgrid02.hep.wisc.edu	Service Status				
		OSGCE-org.osg.certificates.crl-expiry	OPS	?	Y	
		OSGCE-org.osg.general.osg-directories-CE-permissions	OPS	?	Y	
		OSGCE-org.osg.general.osg-version	OPS	?	Y	
		OSGCE-org.osg.globus.gridftp-simple	OPS	?	Y	
		OSGCE-org.osg.batch.jobmanager-condor-status	OPS	?	N	
		OSGCE-org.osg.batch.jobmanager-fork-status	OPS	?	N	
		OSGCE-org.osg.batch.jobmanager-loadleveler-status	OPS	?	N	
		OSGCE-org.osg.batch.jobmanager-lsf-status	OPS	?	N	
		OSGCE-org.osg.batch.jobmanager-managedfork-status	OPS	?	N	
		OSGCE-org.osg.batch.jobmanager-pbs-status	OPS	?	N	
		OSGCE-org.osg.batch.jobmanagers-available	OPS	?	N	
		OSGCE-org.osg.certificates.cacert-expiry	OPS	?	N	
		OSGCE-org.osg.general.classad-valid	OPS	?	N	
		OSGCE-org.osg.general.ping-host	OPS	?	N	
		OSGCE-org.osg.globus.gram-authentication	OPS	?	N	



RSV Version 2

- New probes
 - SE
 - GUMS
 - Software versions
 - CA Certificates up to date
- New simplified configuration scheme
- Service Certificates!
- VO access to RSV Database info and web interface
- Hook to OIM



A Probe

```
[rquick@feynman probes]$ ./jobmanagers-status-probe -u proton.fis.cinvestav.mx -m all
```

```
metricName: org.osg.batch.jobmanager-fork-status
```

```
metricType: status
```

```
timestamp: 2008-04-24T11:57:41Z
```

```
metricStatus: OK
```

```
serviceType: globus-GRAM-fork
```

```
serviceURI: proton.fis.cinvestav.mx
```

```
gatheredAt: feynman.uits.iupui.edu
```

```
summaryData: OK
```

```
detailsData: A test job was successfully submitted to "proton.fis.cinvestav.mx/jobmanager-fork", its status when  
last checked was a valid one ("ACTIVE"); and finally the test job was successfully cleaned up!
```

```
EOT
```

```
metricName: org.osg.batch.jobmanager-pbs-status
```

```
metricType: status
```

```
timestamp: 2008-04-24T11:57:41Z
```

```
metricStatus: OK
```

```
serviceType: globus-GRAM-PBS
```

```
serviceURI: proton.fis.cinvestav.mx
```

```
gatheredAt: feynman.uits.iupui.edu
```

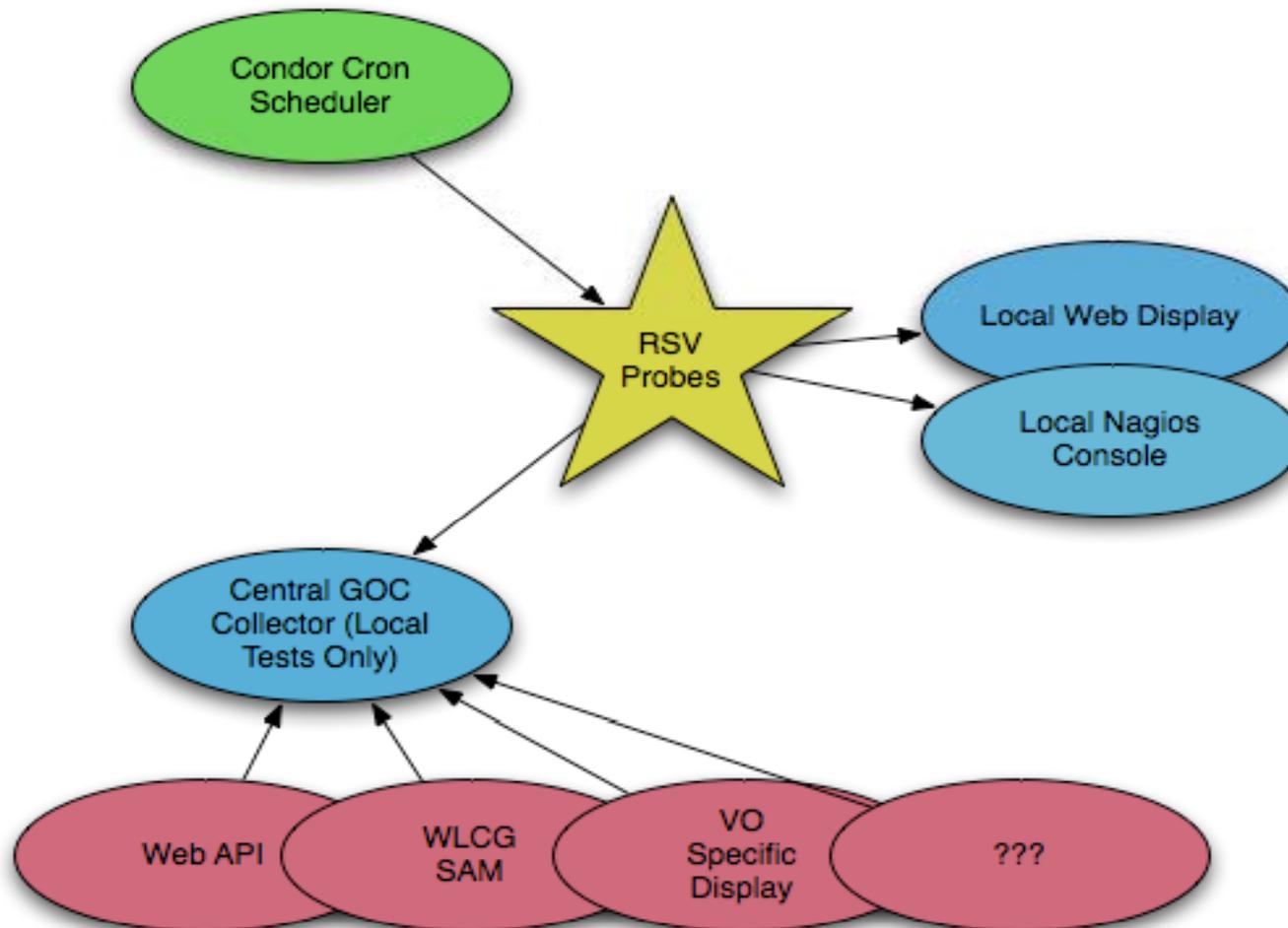
```
summaryData: OK
```

```
detailsData: A test job was successfully submitted to "proton.fis.cinvestav.mx/jobmanager-pbs", its status when  
last checked was a valid one ("DONE"); and finally the test job was successfully cleaned up!
```

```
EOT
```



Local RSV Structure





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RSV Reporting to Nagios Console

QuickTime™ and a
decompressor
are needed to see this picture.

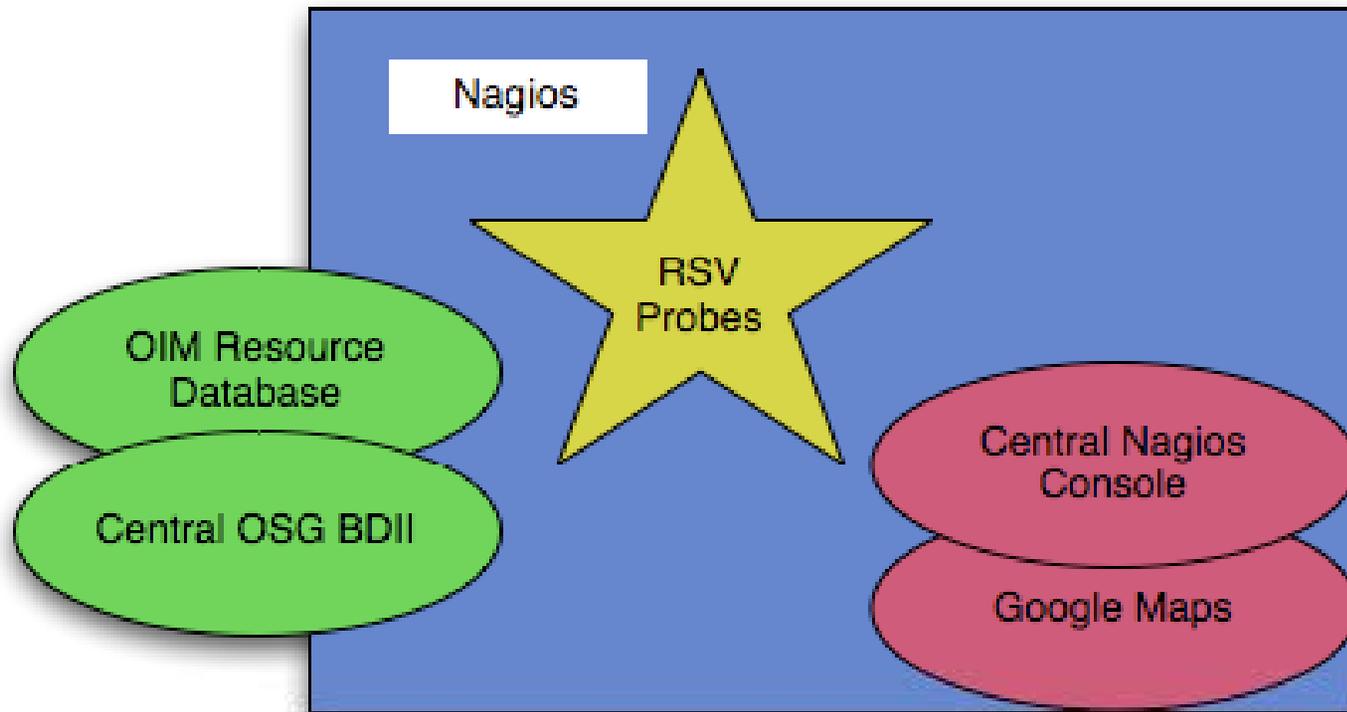


History of Monitoring in OSG

“Monitoring is always a difficult beast to tame. Much careful thought has gone into it over the years, and the highway to this point is littered with lots of dead monitoring bodies. I think the current effort is striving for simplicity, and I hope it gets there!” -Alan Sill (TACC)



Planned Central Structure



•Can it be this simple?



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Questions/Comments?