



Open Science Grid

OSG Software Status & Plans

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OSG Software recap

December 2011

OSG 3.0 Released!

- RPM-based
- RHEL 5, CentOS 5, and SL5
- Almost everything included
 - Missing GUMS & Gratia

January – March 2012

Steady stream of improvements

- Software upgrades (Globus, Condor, Bestman...)
- Streamlining/Bug fixes (osg-configure, RSV, Gratia...)
- SL6 support (worker node)

Differences from OSG Software 1.2

- No more Pacman: just RPM
- Install software into standard locations
 - /usr/bin/grid-proxy-init
 - /usr/sbin/globus-gridftp-server
 - /etc/osg/config.d/*.ini
 - /var/log/globus-gatekeeper.log
- Worker node client is best installed on each computer
- RSV can easily be standalone now
- If you use GUMS, *must* use 1.3 or later
- The single config.ini file has been replaced by /etc/osg/*.ini

Requirements for using OSG Software 3.0

- RHEL 5, CentOS 5, or Scientific Linux 5
 - The entire OSG Software 3.0 stack
- RHEL 6, CentOS 6, or Scientific Linux 6
 - Just the worker node for now, but more soon
- We rely on software from three sources:
 - OSG
 - OS
 - EPEL
- You install software with:
 - Yum
 - RPM

Software changes

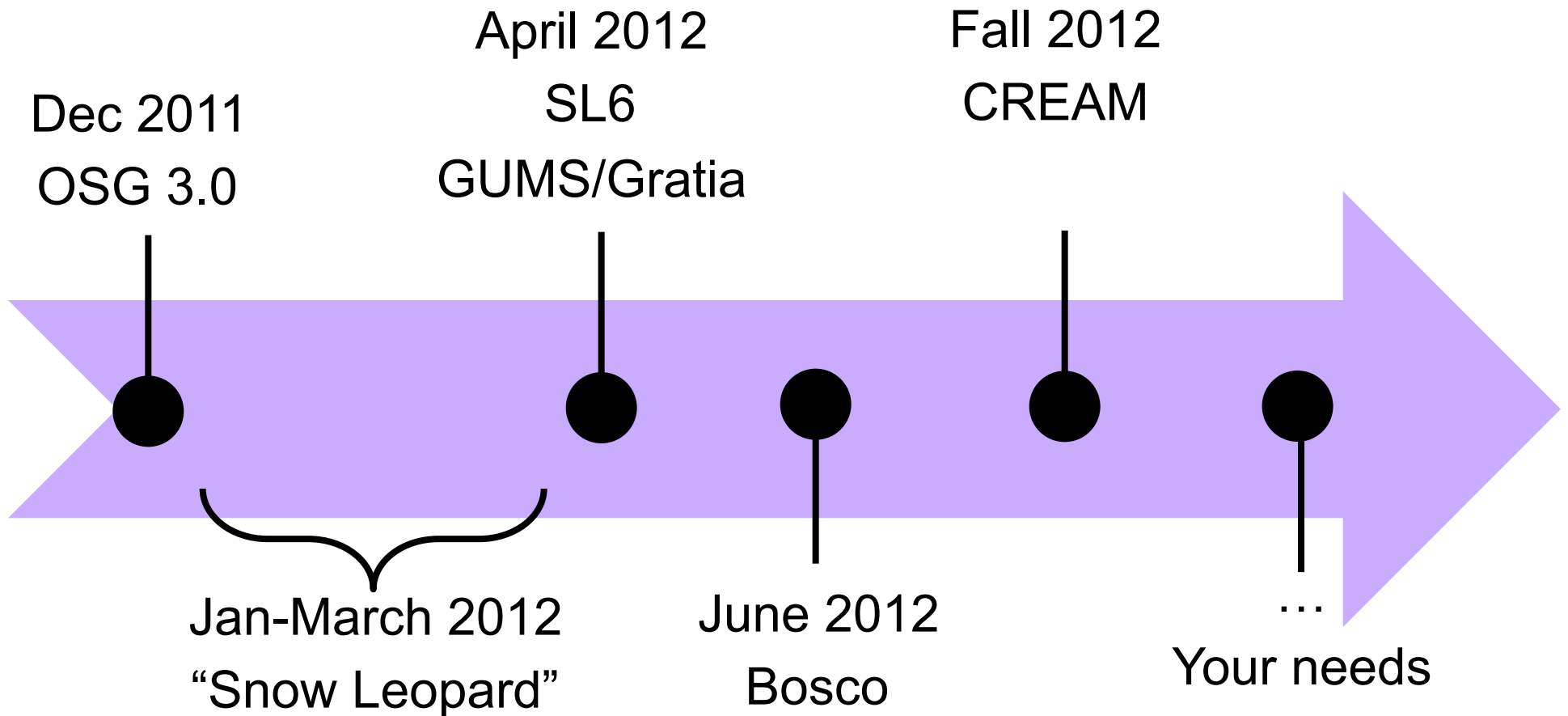
Upgrades:

Software	New Version	Old Version
Globus	5.2	4.0
Bestman	2.2	2.0
VOMS	2.0	1.8
Condor	7.6	7.2
glexec	0.8	0.6
hdfs	0.2	---

Changes:

New	Old
lcmaps	PRIMA
osg-configure	configure-osg
---	vdt-control

Some 2012 Highlights





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Some short-term improvements

Goals:

We want OSG Software 3.0 to be perfect for you.

We want you to have a smooth, easy transition.

We're not quite there yet, but your feedback will help us get there.



Improvement # 1: Bug fixes

- Bugs in
 - Globus,
 - Gratia integration
 - osg-configure
 - RSV
 - ...
- Expect bug release *soon*, within 1-2 weeks
 - Many bug fixes are in testing already
 - Working through a few remaining bugs

Improvement #2: Add back missing functionality

- GUMS
 - In testing/evaluation right now
 - Release end of March, if it goes well
- Gratia Service
 - In development right now
 - Release in April?
- Equivalent to “ vdt-control --off ”

Improvement #3: Scientific Linux 6 support

- Today: Fully supported on worker nodes
- Client & CE are in testing
 - Tomcat issues to explore
- Goal: Early April for CE + SE
 - Unless bug fixes/missing functionality go slowly



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Medium-term improvement: Testing

- We have daily automated testing
 - Install software on VM
 - Run suite of functionality tests
 - Extremely useful! But it is rather light
- Expand functionality coverage
- Expand platform coverage
 - Especially pre-release versions: the canary in the mine
- This is (hopefully) invisible, but essential to your happiness.





Ideas under consideration

- Tested EPEL mirror/snapshot
- Non-root installations
 - Install as non-root
 - In other locations
 - Especially for worker node client
- Expanded platform coverage
 - Debian? Ubuntu?
- **Comments?**



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Questions for me? Feedback?

