

Review of the OSG Critical Probes used for Availability Metrics Calculations

OSG Services

The only authoritative source of information for SAM in terms of OSG services for OPS vo is the OSG interoperability monitoring list, which is accessible through this URL:

http://oim.grid.iu.edu/publisher/get_osg_interop_monitoring_list.php

This means that SAM will ONLY monitor those services under OPS credentials.

At present time, the service names that SAM expects to find in that URL are the ones listed in the first column of this table:

| Service name in OSG URL | Service name in SAM | Service abbreviation in SAM |
|-------------------------|--------------------------|-----------------------------|
| OSG-CE | OSG Computing Element | OSGCE |
| OSG-SRMv1 | OSG SRM version 1 | OSGSRMv1 |
| OSG-SRMv2 | OSG SRM version 2 | OSGSRMv2 |
| OSG-BestmanXrootd | OSG <i>BestmanXrootd</i> | OSGBestm |
| OSG-GridFtp | OSG <i>GridFtp</i> | <i>OSGGdFTP</i> |

List of OSG probes

The OSG probes available in the RSV (Resource & Service Validation) project are listed here:

<http://rsv.grid.iu.edu/documentation/help/>

Equivalence between EGEE and OSG critical tests

Computing Element (CE):

- CE-sft-caver is equivalent to `org.osg.certificates.cacert-expiry`
- CE-sft-csh is equivalent to `org.osg.general.osg-directories-CE-permissions`
- CE-sft-lcg-rm is equivalent to ?
- CE-sft-job is equivalent to ?
- CE-sft-sofver is equivalent to `org.osg.general.osg-version.txt`
- CE-host-cert-valid This one does not apply for OSG (no way to check)
- CE-sft-brokerinfo This one does not apply for OSG (no broker)
- This is not available in EGEE; in OSG `org.osg.general.ping-host.txt`
- This is not available in EGEE; in OSG `org.osg.globus.gram-authentication`

SRM version 2 (SRMv2):

- SRMv2-host-cert-valid is equivalent to ?
- SRMv2-get-SURLs is equivalent to ?
- SRMv2-ls-dir is equivalent to `org.osg.srm.srmcp-readwrite`
- SRMv2-put is equivalent to `org.osg.srm.srmcp-readwrite`
- SRMv2-ls is equivalent to ?
- SRMv2-gt is equivalent to ?
- SRMv2-get is equivalent to `org.osg.srm.srmcp-readwrite`
- SRMv2-del is equivalent to ?

Site BDII (sBDII):

- The following EGEE metrics do not apply to the OSG since the OSG only uses a global BDII: sBDII-sanity, sBDII-performance
 - ◆ A future release of RSV will include Global BDII tests.

Current Critical Tests for OSG resources defined in SAM**Critical Tests for OSG-CE service**

- org.osg.general.ping-host
 - ◆ org.osg.general.ping-host: Checks if a remote host is responding to pings.
- org.osg.globus.gram-authentication
 - ◆ org.osg.globus.gram-authentication: Checks if we can authenticate to remote site with available proxy. Also checks for expiring-soon proxy (and obviously expired proxy!)
- org.osg.general.osg-version
 - ◆ org.osg.general.osg-version: Reports the version of OSG CE running on remote host.
- org.osg.certificates.cacert-expiry
 - ◆ org.osg.certificates.cacert-expiry: Checks for expired and expiring-soon CAcerts/CRLs on remote host.
- org.osg.general.osg-directories-CE-permissions
 - ◆ org.osg.general.osg-directories-CE-permissions: Checks if permissions are set correctly on important user-accessible OSG directories defined by various common OSG environment variables.
- To be added on a date not confirmed yet: org.osg.batch.jobmanager-default-status.txt

Critical Tests for OSG-SRMv1/SRMv2/BestmanXrootd

- org.osg.srm.srmping
 - ◆ org.osg.srm.srmping: Checks if a SRM server node is responding to srm-pings.
- org.osg.srm.srmcp-readwrite
 - ◆ org.osg.srm.srmcp-readwrite: Checks if srmcp can perform a data transfer to and from a storage element using the srm protocol. A test file is srmcp'd to remote host, and back. Then the files are checked for consistency.

Critical Tests for OSG-GridFtp

- org.osg.globus.gridftp-simple
 - ◆ org.osg.globus.gridftp-simple: Checks if GridFTP works to and from remote host. A test file (which can be specified using argument shown below) is gridftp'ed to remote host, and back. Then the files are checked for consistency.

-- DavidCollados - 03 Dec 2007

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