

Deployment Package Information

- Version number: SDIACT-197

Pre-Deployment

Communication Plan

Operations needs to announce to current clients of this service the scheduled upgrade date/time and also about the fix in this release. The list of current clients of this service and their contact email addresses can be obtained by using the oa4mp-cli utility. See the below for instructions on running it to obtain client contact information.

- Run the oa4mp-cli utility and get the contact email addresses for current clients.

```
$ sudo /opt/oa4mp/bin/oa4mp-cli
Config name = default
getting named configuration "default"
OA4MP Server configuration loader, version 1.1 startup on Thu May 15 21:03:10 EDT
2014
*****
* OA4MP CLI (Command Line Interpreter) *
* Version 1.1.1 *
* By Jeff Gaynor NCSA *
* (National Center for Supercomputing Applications) *
* *
* type 'help' for a list of commands *
* 'exit' or 'quit' to end this session. *
*****

oa4mp >use clients
clients >ls
0. (Y) myproxy:oa4mp,2012:/client/6af4bfbe225956b2e67f31b6b4e8202d (Monitor client)
....
clients >ls 0
clients >ls 1
....
clients > exit
oa4mp > exit
$
```

- Inform the clients about the scheduled update date, time and the potential length of downtime. The announcement should include the updating of the OA4MP server from version 1.1.2 to 1.2.1 with a pointer to the fixes detailed in the [changelog](#) on the oa4mp

page.

Installation Package Contents

- What's included
 - XSEDE oauth.war 1.2.1
 - oa4mp-cli.jar 1.2.1

XSEDE Operations and SP Resources

- XSEDE and Service Provider personnel required for the installation
 - Operations/Administration personnel for oa4mp.xsede.org need to apply the release.

Deployment Perspective

- Oauth for MyProxy service oa4mp.xsede.org with the clients: Globus, XDMoD, GAAMP (Science Gateway).
- OA4MP service is a webapp running in tomcat6, port 443.

Time and Effort Estimates

- Operations/Administrator deployment and initial testing (4 hours max)

Impact Assessment

- This upgrade should be transparent to users.

Training Plan

- None needed.

Deployment

Site Preparation

The following operations need to be performed as the root user.

- Download `jre-7u71-linux-x64.rpm` from <http://www.oracle.com/technetwork/java/javase/downloads/jre7-downloads-1880261.html> and make the RPM available in `~root` for installation later.

- Create the backup directory
mkdir /opt/oa4mp/var/archive/`date +%m-%d-%Y`/
- Backup the current oauth.war and oa4mp-cli.jar
cp -a /usr/share/tomcat6/webapps/oauth.war /opt/oa4mp/var/archive/`date +%m-%d-%Y`/
cp -a /opt/oa4mp/lib/oa4mp-cli.jar /opt/oa4mp/var/archive/`date +%m-%d-%Y`/

Installation

The following operations need to be performed as the root user. <username> below is your XSEDE portal username. Enter your XSEDE portal password when prompted.

- Obtain the new oauth.war and copy it into the appropriate place.
cd /tmp
curl -u <username> -O
<https://software.xsede.org/svn/sdi/activities/sdiact-197/trunk/Packages/xsede-oauth-1.2.1.war>
curl -u <username> -O
<https://software.xsede.org/svn/sdi/activities/sdiact-197/trunk/Packages/oa4mp-cli.jar>
service tomcat6 stop
cp -far /var/www/config /opt/oa4mp/var/archive/`date +%m-%d-%Y`/config
cp -far /var/www/storage /opt/oa4mp/var/archive/`date +%m-%d-%Y`/storage
cp -far /opt/oa4mp/etc /opt/oa4mp/var/archive/`date +%m-%d-%Y`/etc
cp /tmp/xsede-oauth-1.2.1.war /usr/share/tomcat6/webapps/oauth.war
cp /tmp/oa4mp-cli.jar /opt/oa4mp/lib/oa4mp-cli.jar
rm -fr /usr/share/tomcat6/webapps/oauth
yum install ~root/jre-7u71-linux-x64.rpm
service tomcat6 start
rm /tmp/xsede-oauth-1.2.1.war /tmp/oa4mp-cli.jar

Verification

- Verify that tomcat has restarted fine by looking at the logs in /var/log/tomcat6
- Verify by logging in to globus.org using XSEDE authentication
- Inform the clients about the successful update. The announcement should include the updating of the OA4MP server from version 1.1.2 to 1.2.1 with a pointer to the fixes detailed in the [changelog](#) on the oa4mp page.

Revert/Undo/Rollback

- In case there are issues, copy over the oauth.war from the backup created earlier.

```
# cp /opt/oa4mp/var/archive/`date +%m-%d-%Y`/oauth.war
/usr/share/tomcat6/webapps/oauth.war
# service tomcat6 restart
# cp /opt/oa4mp/var/archive/`date +%m-%d-%Y`/oa4mp-cli.jar
/opt/oa4mp/lib/oa4mp-cli.jar
```

- Inform the clients about the failed update and rollback.

Installation Support

- All issues with the installation should be directed to vyekkira@illinois.edu and jbasney@illinois.edu

Post-Deployment

Operational Monitoring

- nagios/inca integration: existing monitoring of oa4mp.xsede.org:443 to continue.
- logs in /var/log and /var/log/tomcat6/ and /var/log/tomcat6/oa4mp.log.0

Operational Security

UNCHANGED

- [SDI CI Security Considerations](#)
- tomcat server authentication uses a certificate in /var/www/config/hoststore.p12. Instructions for making this keystore can be found in <https://software.xsede.org/svn/sdi/activities/sdiact-184/trunk/Packages/SSLCERT-Maintenance.txt>
- tomcat client authentication is disabled.
- oauth.war trusts clients using client public keys submitted as part of client approval requests.
- CA certificates in /etc/grid-security/certificates should be maintained as per standard XSEDE procedures for updating the XSEDE Trusted CA certificates.
- Client approvals must be managed using instructions in: <https://software.xsede.org/svn/sdi/activities/sdiact-184/trunk/Packages/OA4MP-ClientApproval-Process.txt>

CHANGES IN THIS ACTIVITY

- None.

Operational (Long(er) Term) Support

- Standard support.

Update/refresh Plan

- Not applicable.

Appendix