

JOnAS OpenSource Java EE Application Server - Doc - BuildingJOnAS5

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Subversion

Anonymous access:

```
svn checkout svn://svn.forge.objectweb.org/svnroot/jonas/jonas/trunk jonas
```

Developer access:

```
svn checkout svn+ssh://svn.forge.objectweb.org/svnroot/jonas/jonas/trunk jonas
```

```
A jonas/README.J2EE A jonas/.project A jonas/src A jonas/src/.classpath A jonas/src/.project A
jonas/src/conf A jonas/src/conf/java.policy A jonas/src/conf/PostgreSQL.properties A
jonas/src/conf/Oracle11.properties A jonas/src/conf/jaas.config A jonas/src/conf/HSQl1.properties
A jonas/src/conf/context.xml A jonas/src/conf/clusterd.xml A
jonas/src/conf/traceclient.properties ...
```

Environment setup

- Subversion client (eclipse subclipse or subversive, tortoise SVN, ...)
- Ant >= 1.6.5 (<http://archive.apache.org/dist/ant/binaries/>)
- Maven >= 2.0.6 (<http://maven.apache.org>)
- Environment variables:
 - JONAS_ROOT: Path, JOnAS will be build in this directory
 - JONAS_BASE: Path, JOnAS configuration will be generated in this directory

Update Maven settings.xml

Internet Proxies

This section is useful when the developer is behind a proxy (Squid, ...).

Add a *proxies* section:

```
<proxies> <proxy> <active>true</active> <protocol>http</protocol> <host>PROXY_HOST</host>
<port>PROXY_PORT</port> <nonProxyHosts>localhost|OTHER_HOSTS</nonProxyHosts> </proxy> </proxies>
```

Notice that you can declare proxies for https repositories by changing *protocol* to **https**. Maven tips For windows

This is for windows users: Your maven2 repository has to be in a directory without any space. This is a bug that may comes from the JSP compiler maven plugin.

You can move your **~/.m2/repository** in **c:m2** for example. You have to make the follow change in your **~/.m2/settings.xml** to give to maven the repository location:

```
<settings> [ . . . ] <localRepository>YOUR NEW REPOSITORY LCOATION</localRepository> </settings>
```

When OutOfMemory occurs

Set the following line in your environment:

```
export MAVEN_OPTS="-Xms256m -Xmx512m"
```

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Repositories Proxies

This section is useful for developers that can access maven repositories acting like a cache to central maven2 repositories (central, ...).

This configuration is suited for a [maven archiva](#) or proximity repository.

Remember to change the URLs according to your local proxy configuration.

```
<profiles> <profile> <id>Repository Proxy</id> <activation>
<activeByDefault>true</activeByDefault> </activation> <repositories> <repository>
<id>local-proxy</id>
<url>http://mururoa.frec.bull.fr:12000/px-webapp.war/repository/public</url> <releases>
<enabled>true</enabled> </releases> <snapshots> <enabled>true</enabled> </snapshots>
</repository> </repositories> <pluginRepositories> <pluginRepository>
<id>local-plugins-proxy</id>
<url>http://mururoa.frec.bull.fr:12000/px-webapp.war/repository/public</url> <releases>
<enabled>true</enabled> </releases> <snapshots> <enabled>true</enabled> </snapshots>
</pluginRepository> </pluginRepositories> </profile> </profiles>
```

Servers Building JOnAS

Maven Build

Maven for JOnAS/OSGi

Do not forget to add the `-Dipojo=true` property when invoking maven, otherwise ipoj plugin will not be executed.

```
mvn -Dipojo=true clean install
```

Maven for JOnAS/Classic

Be sure that you DO NOT include the ipoj property, otherwise the JOnAS classes will be manipulated by IPOJO and will no more be usable outside of an OSGi context. For all

The Maven Build compiles all the JOnAS modules:

```
mvn clean install
```

Here is a snippet of the output:

```
[INFO] Scanning for projects... [INFO] Reactor build order: [INFO] JOnAS [INFO] JOnAS : Modules
[INFO] JOnAS : APIs [INFO] JOnAS : APIs : Deployment [INFO] JOnAS : APIs : Services Interfaces
[INFO] JOnAS : Libraries [INFO] JOnAS : Libraries : Commons [INFO] JOnAS : Libraries :
Deployment [INFO] JOnAS : Libraries : Naming [INFO] JOnAS : Services [INFO] JOnAS : Services :
Service Manager [INFO] JOnAS : Libraries : J2EE Management (JSR 77) [INFO] JOnAS : Services :
JMX [INFO] JOnAS : Services : Security [INFO] JOnAS : Libraries : Version Number [INFO] JOnAS :
Libraries : Timer Manager [INFO] JOnAS : Services : JCA Resource [INFO] JOnAS : Libraries : EJB
Container [INFO] JOnAS : Services : Carol Registry [INFO] JOnAS : Services : HSQL DB [INFO]
JOnAS : Services : Mail [INFO] JOnAS : Services : JOTM Transaction [INFO] JOnAS : Services : Web
Services [INFO] JOnAS : Services : Web Container [INFO] JOnAS : Services : Web Container :: Base
[INFO] JOnAS : Services : Web Container :: Tomcat [INFO] JOnAS : Services : Web Container ::
Tomcat :: 6.0.x [INFO] JOnAS : Security :: Tomcat :: 5.5.x [INFO] JOnAS : Services : Web
Container :: Tomcat :: 5.5.x [INFO] JOnAS : Services : JCA WorkManager [INFO] JOnAS : Tools
[INFO] JOnAS : Tools : Ant Tasks [INFO] JOnAS : Tools : Cluster Daemon [INFO] JOnAS : Generators
[INFO] JOnAS : Generators : Base [INFO] JOnAS : Generators : Client Stubs [INFO] JOnAS :
Generators : WSGen [INFO] JOnAS : EE Components [INFO] JOnAS : EE Components : Web Context Root
. . . [INFO] ----- [INFO]
BUILD SUCCESSFUL [INFO] -----
[INFO] Total time: 2 minutes 5 seconds [INFO] Finished at: Mon Jun 11 13:31:28 CEST 2007 [INFO]
Final Memory: 26M/53M [INFO]
-----
```

Ant Build

The Ant Build is based on the old JOnAS 4.X build process. It uses the jar files produced by maven2 and install a JOnAS binaries in \$JONAS_ROOT.

```
ant clean install
```

```
Buildfile: build.xmlclean:install: [delete] Deleting directory /home/sauthieg/pkg/jonas_root_50
[mkdir] Created dir: /home/sauthieg/pkg/jonas_root_50all:..inst: [copy] Copying 1619 files to
/home/sauthieg/pkg/jonas_root_50 [copy] Copied 492 empty directories to 1 empty directory under
/home/sauthieg/pkg/jonas_root_50 [echo] JOnAS installation completed in the jonas.root
directory: /home/sauthieg/pkg/jonas_root_50BUILD SUCCESSFUL Total time: 3 minutes 9 seconds
```

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Creator: xwiki:XWiki.sauthieg Date: 2007/06/11 11:11

Last Author: xwiki:XWiki.sauthieg Date: 2007/10/17 16:07

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