

Cleaning Tomcat for Redeployment

Introduction

While it is often better to start with a fresh installation of Tomcat, sometimes it is useful to just clean out all traces of Sakai from Tomcat and redeploy.

Procedure for Sakai 11+

Tomcat 8

Shut Tomcat down. From the Tomcat directory:

- components
 - Delete everything
- endorsed (Sakai 12+ only)
 - Delete everything
- lib
 - Delete everything except:
 - The original jars that came with Tomcat
 - Either keep a list of these and exclude them from the deletion (see Linux Tip below) or re-copy from a freshly-extracted Tomcat 8
 - your database drivers (see Linux Tip below)
 - Note that if you are using the MariaDB driver shipped with Sakai 11, you can safely delete it and it will be restored when you deploy Sakai
 - For Linux (substituting `ecj-<version>.jar`, and `<your database driver>`); tested in tomcat 8.0.32, and tomcat 8.0.33:

```
cd /opt/tomcat/lib
shopt -s extglob
rm -rf !(annotations-api.jar|catalina-ant.jar|catalina-ha.jar|catalina-storeconfig.jar|catalina-tribes.jar|catalina.jar|ecj-<version>.jar|el-api.jar|jasper-el.jar|jasper.jar|jsp-api.jar|servlet-api.jar|tomcat-api.jar|tomcat-coyote.jar|tomcat-dbcp.jar|tomcat-i18n-es.jar|tomcat-i18n-fr.jar|tomcat-i18n-ja.jar|tomcat-jdbc.jar|tomcat-jni.jar|tomcat-util-scan.jar|tomcat-util.jar|tomcat-websocket.jar|websocket-api.jar|<your database driver>)
```

- temp
 - Delete everything
- webapps
 - Keep ROOT (if you have it)
 - Delete everything else (see Linux Tip below)
- work
 - Delete everything

Procedure for Sakai 10 and under

Tomcat 7/8

Shut Tomcat down. From the Tomcat directory:

- common/lib:
 - Delete everything (Database drivers should be in lib, the other jars will be redeployed by Maven)
- components
 - Delete everything
- shared/lib
 - Delete everything
- temp
 - Delete everything
- webapps
 - Keep ROOT (if you have it)
 - Delete everything else (see Linux Tip below)
- work
 - Delete everything

Tomcat 5.5

Shut Tomcat down. From the Tomcat directory:

- common/lib:
 - Delete sakai*.jar

- components
 - Delete everything
- conf/Catalina/localhost
 - Keep host-manager.xml, manager.xml
 - Delete everything else
- server/lib
 - Delete sakai*.jar
- shared/lib
 - Delete everything
- temp
 - Delete everything
- webapps
 - Keep ROOT (maybe balancer and webdav as well)
 - Delete everything else (see Linux Tip below)
- work
 - Delete everything

This process could be automated with a [script](#) or Maven goal.

Linux Tip

Run the following commands to delete everything in webapps except the specified directories ROOT, balancer, and webdav. A similar command can be used to avoid deletion of database driver jars.

```
cd /opt/tomcat/webapps
shopt -s extglob
rm -rf !(ROOT|balancer|webdav)
```

References

- <http://thread.gmane.org/gmane.comp.cms.sakai.devel/1299/focus=1474>