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|  | **2014** |
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| **[TOMCAT]** |
| Installation, configuration and management of Tomcat |

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# Installation

## Windows:

At: <http://tomcat.apache.org/download-70.cgi>  
download: core, 64-bit windows. This is a zip.  
Save and unzip to target folder, e.g. C:\MyPrograms

# Configuration

## Enable directory listing

[[ It must be possible to simplify the solution below. I didn’t investigate this further ]]

C:\MyPrograms\apache-tomcat-7.0.54\conf\web.conf

<servlet>  
 <servlet-name>default</servlet-name>|  
 <servlet-class>org.apache.catalina.servlets.DefaultServlet</servlet-class>  
 ….  
 <init-param>  
 <param-name>listings</param-name>  
 <param-value>true</param-value> <===== set to true  
 </init-param>  
 <load-on-startup>1</load-on-startup>  
</servlet>

Next you may need to expose a specific directory  
<servlet>

<!-- List files in /ws-definitions -->

<servlet-name>ListWsDefinitions</servlet-name>

<servlet-class>org.apache.catalina.servlets.DefaultServlet</servlet-class>

<init-param>

<param-name>debug</param-name>

<param-value>0</param-value>

</init-param>

<init-param>

<param-name>listings</param-name>

<param-value>true</param-value>

</init-param>

<load-on-startup>100</load-on-startup>

</servlet>

<servlet-mapping>

<servlet-name>ListWsDefinitions</servlet-name>

<url-pattern>/ws-definitions/\*</url-pattern>

</servlet-mapping>

Ref: <http://stackoverflow.com/questions/7068046/how-can-i-list-all-the-files-in-folder-on-tomcat>   
Note: the above only works when <param-value>true</param-value> has ALSO been set for the default servlet.  
  
ws-definitions is an directory under webapps.  
C:\MyPrograms\apache-tomcat-7.0.54\webapps/ ws-definitions

**OPEN:** how to point to specific dir on the file system

## Defined users

Uncomments the defined users in:  
C:\MyPrograms\apache-tomcat-7.0.54\conf\tomcat-users.xml

# Start / Stop

C:\MyPrograms\apache-tomcat-7.0.54\bin  
> doubleclick "startup.bat"

# TOMCAT Trouble shooting

## Failed to install WAR: SEVERE: Error listenerStart

**Console log:**  
INFO: Deploying web application archive C:\MyPrograms\activiti\apache-tomcat-7.0.53\webapps\css-worflow-app.war  
May 1, 2014 10:10:01 AM org.apache.catalina.core.StandardContext startInternal  
SEVERE: Error listenerStart  
May 1, 2014 10:10:01 AM org.apache.catalina.core.StandardContext startInternal  
SEVERE: Context [/css-worflow-app] startup failed due to previous errors

**Root case:** Tomcat used wrong Java.

**Solution:**

Find stacktrace in  
CATALINA\_HOME/logs/localhost<date> log file  
Observation: same log information as in console.  
BUT, the localhost.<date>.log contains stacktrace.  
It showed:  
*Throwable occurred: java.lang.UnsupportedClassVersionError: JVMCFRE003 bad major version; class=com/philips/css/prototype/workflow/servlet/ActivitiServletContextListener, offset=6 (unable to load class com.philips.css.prototype.workflow.servlet.ActivitiServletContextListener)*

Running startup.bat in a cmd.exe shows the Java being used.  
That was JRE\_HOME (which pointed to a java5), where I wanted 1.8  
I updated setclasspath.bat to make Tomcat use always JDK  
*rem if ""%1"" == ""debug"" goto needJavaHome  
goto needJavaHome*