

Re: Tomcat & win 2000

Source: <http://coding.derkeiler.com/Archive/Java/comp.lang.java.help/2003-10/0120.html>

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Date: 10/11/03

Date: Sat, 11 Oct 2003 09:04:12 -0400

What is a good book for Tomcat?

"Joseph" <briometric@yahoo.com> wrote in message
news:bm6add5i24\$1@usenet01.srv.cis.pitt.edu...

> <http://www.johnturner.com/howto/winxp-howto.html>

>

> *How To for Apache2, Tomcat4.1.x, mod_jk2, JSDK1.4 on Win2k*

>

>

> *Quick and Dirty, no thinking version here for those who just want to blast
> it in.*

>

>

>

> *Note: In an effort to reduce convoluted path names in windows try to
choose*

> *install directories with short names. Also try not to use spaces in the*

> *names, Apache and Tomcat and as far as I know all XML files have problems*

> *with it and require you to double quote any path name that includes
spaces.*

> *Save yourself some headaches and just don't do it.*

>

> *Note: Careful planning of installation paths can be a good thing. For*

> *instance, combining the DocumentRoot of Apache and the webapp directory of*

> *Tomcat can lead to automatic application configuration by Tomcat 4.1.10. I*

> *haven't tried it so it's just a theory mind you, but it sounds good.*

>

> *Install J2sdk1.4.x*

> *J2sdk*

>

> *(Make sure you get the windows version, of the latest available, but it
> should work with any 1.4 version)*

>

>

>

> *No need to install src or demos. You will need to check the JRE for
windows*

> *drive only option unless you want to edit the registry and point the key*

to

- > *the jvm.dll in the JSDK. It s easier to go ahead and take the default*
- > *though. No matter where you choose to install the JSDK sun s install still*
- > *puts the JRE in the Program Files directory. I chose an install path of*
- > *c:\java. So try to keep it simple.*
- >
- >
- >
- > *Set system environment variables for Java home.*
- >
- > *JAVA_HOME=C:\java*
- >
- > *Add JAVA_HOME and JAVA_HOME\bin directory to the system PATH variable in*
- my
- > *case it is*
- >
- > *C:\java;C:\java\bin*
- >
- > *Install Apache 2.0.43*
- > *Apache2*
- >
- > *Get the latest available. Download the correct program for your system.*
- The
- > *one ending in .exe is for people who do not have the msi installer yet,*
- most
- > *do, so the smaller .msi package should work for most people. Make a nice*
- > *short path without any blank spaces for the installation. Mine is*
- C:\Apache2
- >
- > *During installation set domain and ServerName to Your Server Name or just*
- > *localhost if you re just testing. It will only be accessible from the*
- local
- > *machine.*
- >
- > *Install Tomcat 4.1.x*
- > *Tomcat*
- >
- > *Get the latest release version. At the time of this writing it was 4.1.12.*
- > *You must get the LE version of Tomcat. JDK 1.4.x has an XML parser*
- installed
- > *so the LE version of Tomcat was made for this reason. During installation*
- > *you don t have to select the check box for NT service. Again make sure to*
- > *choose a nice short install path without any blanks in the names. Mine is*
- > *C:\Tomcat*
- >
- >
- >
- > *Set system environment variables for Tomcat home. It might also be a good*
- > *idea to add a Catalina home too.*
- >
- > *TOMCAT_HOME= C:\Tomcat*

>
> CATALINA_HOME=C:\Tomcat
>
> Install and configure mod_jk2.dll
> mod_jk2.dll
>
> Get the latest version of mod_jk2.dll and save it to the
APACHE_HOME/modules
> directory. The new modules are version named to ID them to different
Apache
> versions. You can rename them to mod_jk2.dll or change the LoadModule
> statement to match the version you are installing. In either case the
module
> name and the LoadModule statement have to match. I just renamed the module
> to be mod_jk2.dll.
>
>
>
> In your httpd.conf file add this LoadModule statement to the beginning of
> the LoadModule section.
>
> LoadModule jk2_module modules/mod_jk2.dll
>
>
>
> In your APACHE_HOME/logs directory you will need to create three empty
> files.
>
> stdout.log
>
> stderr.log
>
> jk2.shm
>
> Add workers2.properties
> Cut and paste the following workers2.properties file into the
> APACHE_HOME/conf directory. There s lots of extra stuff to experiment with
> here later. (Edit paths to suit)
>
>
>
> [logger]
>
> level=DEBUG
>
>
>
> [config:]
>
> #file=\${serverRoot}/conf/workers2.properties
>

```
> file=c:/Apache2/conf/workers2.properties
>
> debug=0
>
> debugEnv=0
>
>
>
> [uriMap:]
>
> info=Maps the requests. Options: debug
>
> debug=0
>
>
> # Alternate file logger
>
> #[logger.file:0]
>
> #level=DEBUG
>
> #file=${serverRoot}/logs/jk2.log
>
>
>
> [shm:]
>
> info=Scoreboard. Required for reconfiguration and status with multiprocess
> servers
>
> file=${serverRoot}/logs/jk2.shm
>
> size=1000000
>
> debug=0
>
> disabled=0
>
>
>
> [workerEnv:]
>
> info=Global server options
>
> timing=1
>
> debug=0
>
> # Default Native Logger (apache2 or win32 )
>
```

```
> # can be overridden to a file logger, useful
>
> # when tracing win32 related issues
>
> #logger=logger.file:0
>
>
>
> [lb:lb]
>
> info=Default load balancer.
>
> debug=0
>
>
>
> #[lb:lb_1]
>
> #info=A second load balancer.
>
> #debug=0
>
>
>
> [channel.socket:localhost:8009]
>
> info=Ajp13 forwarding over socket
>
> debug=0
>
> tomcatId=localhost:8009
>
>
>
> #[channel.socket:localhost:8019]
>
> #info=A second tomcat instance.
>
> #debug=0
>
> #tomcatId=localhost:8019
>
> #lb_factor=1
>
> #group=lb
>
> #group=lb_1
>
> #disabled=0
>
>
```

```
>
> #[channel.un:/opt/33/work/jk2.socket]
>
> #info=A second channel connecting to localhost:8019 via unix socket
>
> #tomcatId=localhost:8019
>
> #lb_factor=1
>
> #debug=0
>
>
>
> [channel.jni:jni]
>
> info=The jni channel, used if tomcat is started inprocess
>
>
>
> [status:]
>
> info=Status worker, displays runtime informations
>
>
>
> [vm:]
>
> info=Parameters used to load a JVM in the server process
>
> #JVM=C:\jdk\jre\bin\hotspot\jvm.dll
>
>
OPT=-Djava.class.path=c:/Tomcat/bin/tomcat-jni.jar;c:/Tomcat/server/lib/comm
> ons-logging.jar
>
> OPT=-Dtomcat.home=${TOMCAT_HOME}
>
> OPT=-Dcatalina.home=${TOMCAT_HOME}
>
> OPT=-Xmx128M
>
> #OPT=-Djava.compiler=NONE
>
> disabled=0
>
>
>
> [worker.jni:onStartup]
>
> info=Command to be executed by the VM on startup. This one will start
> tomcat.
```

```
>
> class=org/apache/jk/apr/TomcatStarter
>
> ARG=start
>
> disabled=0
>
> stdout=c:/Apache2/logs/stdout.log
>
> stderr=c:/Apache2/logs/stderr.log
>
>
> [worker.jni:onShutdown]
>
> info=Command to be executed by the VM on shutdown. This one will stop
> tomcat.
>
> class=org/apache/jk/apr/TomcatStarter
>
> ARG=stop
>
> disabled=0
>
>
>
> [uri:/jkstatus/*]
>
> info=Display status information and checks the config file for changes.
>
> group=status:
>
>
>
> #[uri:127.0.0.1:8003]
>
> #info=Example virtual host. Make sure myVirtualHost is in /etc/hosts to
test
> it
>
> #alias=myVirtualHost:8003
>
>
>
> #[uri:127.0.0.1:8003/ex]
>
> #info=Example webapp in the virtual host. It'll go to lb_1 ( i.e.
> localhost:8019 )
>
> #context=/ex
>
```

```
> #group=lb_1
>
>
>
> [uri:/examples]
>
> info=Example webapp in the default context.
>
> context=/examples
>
> debug=0
>
>
>
> #[uri:/examples1/*]
>
> #info=A second webapp, this time going to the second tomcat only.
>
> #group=lb_1
>
> #debug=0
>
>
>
> [uri:/examples/servlets/*]
>
> info=Prefix mapping
>
>
>
> [uri:/examples/*.jsp]
>
> info=Extension mapping
>
>
>
> [uri:/examples/*]
>
> info=Map the whole webapp
>
>
>
> [uri:/examples/servlets/HelloW]
>
> info=Exampel with debug enabled.
>
> debug=10
>
>
>
>
```

```
>
>
>
>
>
>
>
>
> Add jk2.properties
> Cut and paste the following jk2.properties file into the TOMCAT_HOME\conf
> directory. (Edit paths to suit)
>
>
>
> ## THIS FILE MAY BE OVERRIDEN AT RUNTIME. MAKE SURE TOMCAT IS STOPED
>
> ## WHEN YOU EDIT THE FILE.
>
>
> ## COMMENTS WILL BE _LOST_
>
>
>
> ## DOCUMENTATION OF THE FORMAT IN JkMain javadoc.
>
>
>
> # Override the default port for the socketChannel
>
> # channelSocket.port=8019
>
> # Default:
>
> # channelUnix.file=${jkHome}/work/jk2.socket
>
> # Just to check if the the config is working
>
> shm.file=c:/Apache2/logs/jk2.shm
>
>
>
> # In order to enable jni use any channelJni directive
>
> channelJni.disabled = 0
>
> # And one of the following directives:
>
>
>
> # apr.jniModeSo=/opt/apache2/modules/mod_jk2.so
>
```


>
>
>
> *Quick and Dirty*
> *Install the software, get the latest of each*
>
>
> *J2sdk 1.4*
>
> *Apache2*
>
> *Tomcat*
>
> *mod_jk2.dll*
>
>
>
> *1. Take all the defaults during installation, except for the install paths.*
> *Choose custom install and change the Apache install directory to C:\ this will in fact install it to c:\Apache2, and Tomcat to c:\Tomcat, java to c:\Java.*
>
>
>
> *2. Stop Apache and place mod_jk2.dll in the APACHE_HOME/modules directory.*
>
>
>
> *3. Edit httpd.conf, add LoadModule jk2_module modules/mod_jk2.dll to the end of the LoadModules section.*
>
>
>
> *4. Add system environment variables and modify system PATH.*
>
> *CATALINA_HOME=c:\Tomcat*
>
> *JAVA_HOME=c:\Java*
>
> *TOMCAT_HOME=c:\Tomcat*
>
> *Add to system PATH c:\Java;c:\Java\bin*
>
>
>
> *5. Add a jk2.properties file to TOMCAT_HOME\conf and edit paths. File is here, use with no changes.*
>
>

>
> 6. Add a *workers2.properties* file to *APACHE2_HOME\conf* and edit paths.
File
> *is here, do not change.*
>
>
>
> 7. Create three empty files in the *APACHE2_HOME\logs* directory
>
> *stdout.log*
>
> *stderr.log*
>
> *jk2.shm*
>
>
>
> 8. Reboot system.
>
>
>
> 9. Give it a whirl <http://localhost/examples>
>
>
>
> *If You Have Trouble*
>
> *If Apache fails to start, and it was fine before you started this, then*
> *there is probably something wrong with the LoadModule line you added to*
the
> *httpd.conf. Open a cmd window in the bin directory of Apache and type in*
> *apache -t without the quotes. This will check the syntax of the*
httpd.conf
> *file. If the LoadModule syntax is correct you may have the wrong*
mod_jk2.dll
> *installed. It should throw an error complaining about incorrect versions*
in
> *the cmd window.*
>
>
>
> *Review the Apache error log to see problems with the in-process startup of*
> *Tomcat. If it complains about not finding the jvm.dll and can't finish the*
> *vm setup or says there's no installed jvm.dll in the path then check to*
make
> *sure the JRE got installed correctly. Tomcat reads the registry to find*
the
> *location of the jvm.dll. For example since I took the defaults during the*
> *installation of J2SDK my registry shows the installed JRE at;*
>
>

>
> [HKEY_LOCAL_MACHINE\SOFTWARE\JavaSoft\Java Runtime Environment\1.4.0_01]
>
> "JavaHome"="C:\Program Files\Java\j2re1.4.0_02"
>
> "MicroVersion"="0"
>
> "RuntimeLib"="C:\Program Files\Java\j2re1.4.0_02\bin\client\jvm.dll"
>
>
>
> Navigate to the indicated RuntimeLib directory and see if it s actually
> there. If everything thing looks fine and it still throws errors then you
> can point mod_jk2 to it with a path statement in the [vm] section of the
> worker2.properties file, but normally this is not needed.
>
>
>
> Mod_jk2 can tell you allot about your installation and configuration. You
> can see what it thinks at <http://localhost/jkstatus>.
>
>
>
> Check the stdout and stderr logs for more clues, pay attention to the
> [error] lines, [warning] are ok.
>
> Other problems I ve seen is jk2 complaining that it can t find the class
> path for Tomcat starter, this turned out to be a mangled mod_jk2.dll and
was
> fixed by simply replacing the file.
>
> If you get errors about AJP13 forwarding then check your jk2.properties
file
> for a channelJni.disable=0 statement. Jni has to have a channel
statement
> to run. Any channelJni statement will do, the previous one simply says it
is
> not disabled.
>
>
>
> Did you remember to reboot? More than once I have forgotten this simple
> step, and without it Tomcat will not be able to find the jvm.dll or any of
> the other java stuff.
>
>
>
> Double-check your environment variables for the correct paths. Make sure
you
> have a tomcat-jni.jar in the TOMCAT_HOME/bin directory. Make sure the
paths
> are correct in the jk2.properties and the workers2.properties file. The

path

> *for the jk2.shm should be correct, especially important if you have multiple*

> *processors.*

>

>

>

> *BTW, if you use this How to and improve on it, how s about sharing it back*

> *with me. rsowders@usgs.gov*

>

>

>

> *I put this together after lurking on Tomcat-users and picking up some pointers from Malden Turk, Andy Eastham, and lots of others.*

>

>

>

> *Robert Sowders*

>

> *Senior Unix Administrator*

>

> *Western Geographic Science Center*

>

> *rsowders@usgs.gov*

>

>

>

> *List of things you ll need.*

> *J2sdk 1.4*

>

> <http://java.sun.com/j2se/1.4/download.html>

>

>

>

> *Apache2*

>

>

> http://www.apache.org/dist/httpd/binaries/win32/apache_2.0.40-win32-x86-no_ssl.msi

>

>

>

> *Tomcat 4.1.10-LE*

>

>

> <http://jakarta.apache.org/builds/jakarta-tomcat-4.0/test/v4.1.10/bin/jakarta-tomcat-4.1.10-LE-jdk14.exe>

>

>

>

> *Mod_jk2.dll*

>

>
> http://jakarta.apache.org/builds/jakarta-tomcat-connectors/jk2/nightly/win32/mod_jk2.dll
>
>
>
> *Get some humor too, sometimes it helps to take a break and laugh at
> yourself.*
>
> <http://www.despair.com/risks.html>
>
> <http://www.despair.com/hazards.html>
>
> <http://www.despair.com/fut24x30prin.html>
>
>
>
> "Jean Pierre Daviau" <jpdaviau@videotron.ca> wrote in message
> news:Onkhh.11042\$nh4.146757@weber.videotron.net...
> > Hi,
> >
> > Is there a pseial version of tomcat for win 2000?
> >
> >
> >
> > JPDaviau
> >
> > ---
> > ----
> > <http://web.jeanpierredaviau.com>
> >
> >
>
>