

JSP - ENVIRONMENT SETUP

http://www.tutorialspoint.com/jsp/jsp_environment_setup.htm

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A development environment is where you would develop your JSP programs, test them and finally run them.

This tutorial will guide you to setup your JSP development environment which involves following steps:

Setting up Java Development Kit

This step involves downloading an implementation of the Java Software Development Kit *SDK* and setting up *PATH* environment variable appropriately.

You can download SDK from Oracle's Java site: [Java SE Downloads](#).

Once you download your Java implementation, follow the given instructions to install and configure the setup. Finally set *PATH* and *JAVA_HOME* environment variables to refer to the directory that contains java and javac, typically *java_install_dir/bin* and *java_install_dir* respectively.

If you are running Windows and installed the SDK in *C:\jdk1.5.0_20*, you would put the following line in your *C:\autoexec.bat* file.

```
set PATH=C:\jdk1.5.0_20\bin;%PATH%
set JAVA_HOME=C:\jdk1.5.0_20
```

Alternatively, on Windows NT/2000/XP, you could also right-click on My Computer, select Properties, then Advanced, then Environment Variables. Then, you would update the *PATH* value and press the OK button.

On Unix *Solaris*, *Linux*, etc. , if the SDK is installed in */usr/local/jdk1.5.0_20* and you use the C shell, you would put the following into your *.cshrc* file.

```
setenv PATH /usr/local/jdk1.5.0_20/bin:$PATH
setenv JAVA_HOME /usr/local/jdk1.5.0_20
```

Alternatively, if you use an Integrated Development Environment *IDE* like Borland JBuilder, Eclipse, IntelliJ IDEA, or Sun ONE Studio, compile and run a simple program to confirm that the IDE knows where you installed Java.

Setting up Web Server: Tomcat

A number of Web Servers that support JavaServer Pages and Servlets development are available in the market. Some web servers are freely downloadable and Tomcat is one of them.

Apache Tomcat is an open source software implementation of the JavaServer Pages and Servlet technologies and can act as a standalone server for testing JSP and Servlets and can be integrated with the Apache Web Server. Here are the steps to setup Tomcat on your machine:

- Download latest version of Tomcat from <http://tomcat.apache.org/>.
- Once you downloaded the installation, unpack the binary distribution into a convenient location. For example in *C:\apache-tomcat-5.5.29* on windows, or */usr/local/apache-tomcat-5.5.29* on Linux/Unix and create *CATALINA_HOME* environment variable pointing to these locations.

Tomcat can be started by executing the following commands on windows machine:

```
%CATALINA_HOME%\bin\startup.bat

or

C:\apache-tomcat-5.5.29\bin\startup.bat
```

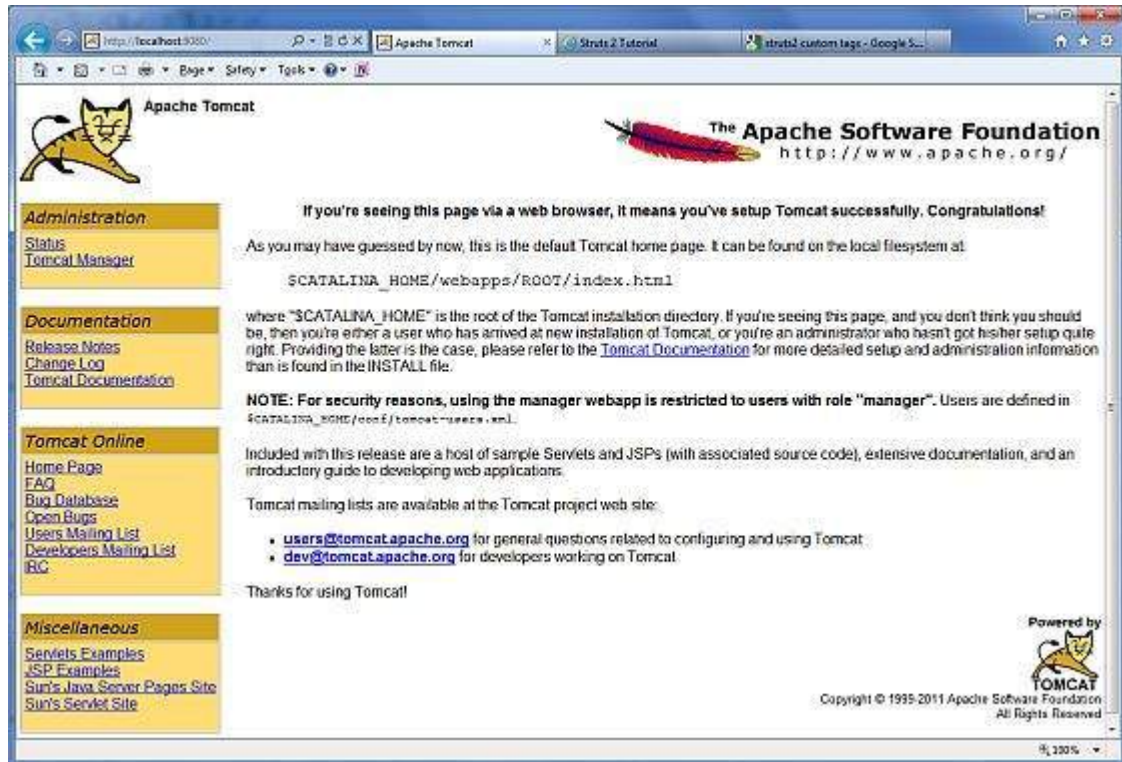
Tomcat can be started by executing the following commands on Unix *Solaris*, *Linux*, etc. machine:

```
$CATALINA_HOME/bin/startup.sh
```

or

```
/usr/local/apache-tomcat-5.5.29/bin/startup.sh
```

After a successful startup, the default web applications included with Tomcat will be available by visiting **http://localhost:8080/**. If everything is fine then it should display following result:



Further information about configuring and running Tomcat can be found in the documentation included here, as well as on the Tomcat web site: <http://tomcat.apache.org>

Tomcat can be stopped by executing the following commands on windows machine:

```
%CATALINA_HOME%\bin\shutdown
```

or

```
C:\apache-tomcat-5.5.29\bin\shutdown
```

Tomcat can be stopped by executing the following commands on Unix *Solaris*, *Linux*, etc. machine:

```
$CATALINA_HOME/bin/shutdown.sh
```

or

```
/usr/local/apache-tomcat-5.5.29/bin/shutdown.sh
```

Setting up CLASSPATH

Since servlets are not part of the Java Platform, Standard Edition, you must identify the servlet classes to the compiler.

If you are running Windows, you need to put the following lines in your C:\autoexec.bat file.

```
set CATALINA=C:\apache-tomcat-5.5.29
set CLASSPATH=%CATALINA%\common\lib\jsp-api.jar;%CLASSPATH%
```

Alternatively, on Windows NT/2000/XP, you could also right-click on My Computer, select Properties, then Advanced, then Environment Variables. Then, you would update the CLASSPATH value and press the OK button.

On Unix *Solaris, Linux, etc.* , if you are using the C shell, you would put the following lines into your .cshrc file.

```
setenv CATALINA=/usr/local/apache-tomcat-5.5.29
setenv CLASSPATH $CATALINA/common/lib/jsp-api.jar:$CLASSPATH
```

NOTE: Assuming that your development directory is C:\JSPDev *Windows* or /usr/JSPDev *Unix* then you would need to add these directories as well in CLASSPATH in similar way as you have added above

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