How to relocate the Tomcat 4 web application directory?

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Document History

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[1] Drafts use Version 0.x.

Contents

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1 Abstract

This text covers the relocation of the Tomcat 4 web application directory. Relocation of the web application is useful if you want to separate your web applications from the Tomcat installation directory. Updating to a new Tomcat version can be done with no or very little modifications to your web applications as each application has its specific *server.xml* file. The relocation enables you to run multiple instances of Tomcat.

These instructions have been tested on Windows 2000 with Tomcat 4.1.24.
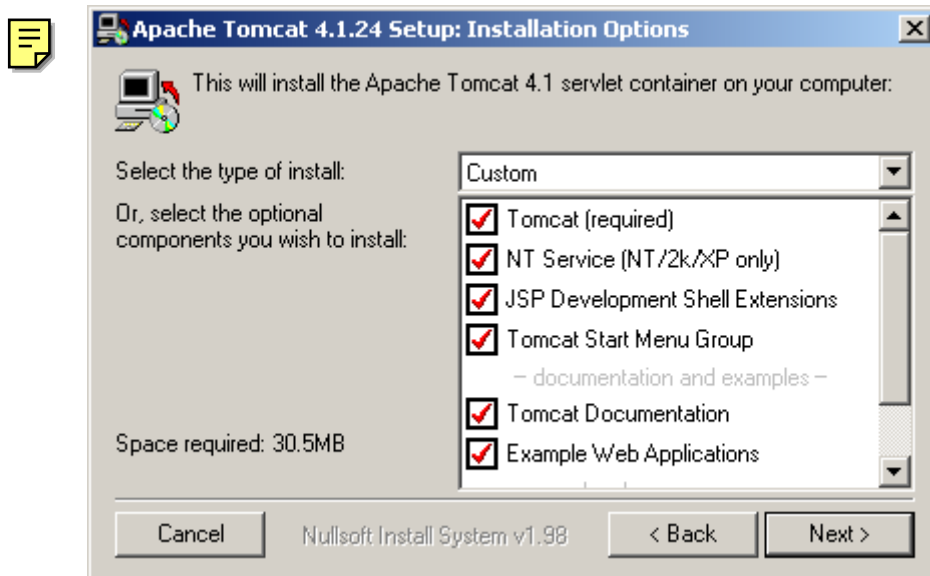
2 Prerequisites

Properly installed **J2SE SDK** with **JAVA_HOME** set in your environment.

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3 Install Tomcat 4

1.   Download the Windows binaries: **tomcat-4.1.24.exe**

2.   Install Tomcat 4 by double-clicking on the downloaded file and following the prompts.

2a.   As **Installation Option** choose **Normal (Default)**:

It is NOT necessary to install Tomcat as **NT Service**!

If you want to install Tomcat as NT Service later you can do this with the ***tomcat.exe*** *tool.*

Using the Windows installer ***tomcat.exe*** *is only extracted to the* ***bin*** *directory of the Tomcat installation directory if you have chosen the NT Service option during installation.*

2b.   Follow the next prompts.

3.   Set **CATALINA_HOME** in your environment to point to the Tomcat 4.1 installation directory.

4 Relocate the web application directory

1. Create a directory to store your relocated web application directory.
   mkdir TomcatApplication

2. Go to the new created directory.
   cd TomcatApplication

3. Create the following directories: **logs, temp, webapps, work**.
   mkdir logs temp webapps work

4. Copy the **conf** directory from your Tomcat 4.1 installation directory into the relocated directory *TomcatApplication*.

5 Configuration

Relocating the web application directory means to create an instance of Tomcat. The **server.xml** file has to be modified to be specific to this instance.

1.   Change all ports in your **conf/server.xml** file in the relocated directory.

> *Changing all ports allows you to run Tomcat with the relocated web application directory without any interference with any other Tomcat instances running on that system.*

```
[...]
<Server port="11001" shutdown="SHUTDOWN" debug="0">
[...]
<!-- Define a non-SSL Coyote HTTP/1.1 Connector on port 8081 --> <Connector
className="org.apache.coyote.tomcat4.CoyoteConnector" port="11002"
minProcessors="5" maxProcessors="75" enableLookups="true"
redirectPort="11003" acceptCount="100" debug="0"
connectionTimeout="20000" useURIValidationHack="false"
disableUploadTimeout="true" />
<!-- Note : To disable connection timeouts, set connectionTimeout value to -1 -->
[...]
<!-- Define a Coyote/JK2 AJP 1.3 Connector on port 8009 --> <Connector
className="org.apache.coyote.tomcat4.CoyoteConnector" port="11004"
minProcessors="5" maxProcessors="75" enableLookups="true"
redirectPort="11005" acceptCount="10" debug="0"
connectionTimeout="20000" useURIValidationHack="false"
protocolHandlerClassName="org.apache.jk.server.JkCoyoteHandler"/>
[...]
```

Please be sure that the port numbers are not already in use!

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2.   Remove the examples context in your **conf/server.xml** file in the relocated directory.

```
[...]
<!-- Tomcat Examples Context -->
<Context path="/examples" docBase="examples" debug="0" reloadable="true"
crossContext="true">
[about 100 lines]
</Context>
[...]
```

6 Startup

1. Set **CATALINA_BASE** in your environment to point to the relocated web application directory.

   *You have already set the needed **CATALINA_HOME** in your environment to point to the Tomcat distribution directory and **JAVA_HOME** to point to your J2SE installation directory!*

2. Go to the **bin** directory in the Tomcat 4 distribution directory and start the Tomcat instance.
   startup

   The started Tomcat instance now uses the relocated web application directory with the specific *server.xml* configuration and listens on port 11002.

3. The instance is ready for deployment of your web applications in the relocated directory.

7 Shutdown

1. Set **CATALINA_BASE** in your environment to point to the relocated web application directory.

   *You have already set the needed **CATALINA_HOME** in your environment to point to the Tomcat distribution directory and **JAVA_HOME** to point to your J2SE installation directory!*

2. Go to the **bin** directory in the Tomcat 4 distribution directory and start the Tomcat instance.
   shutdown

8 Administration applications

Since Tomcat 4.1 two administration applications are installed by default:
Tomcat Web Server Administration Tool
Tomcat Manager

These applications have to be configured to be used with the relocated web application directory of the Tomcat instance.

1.   Copy the files ***admin.xml*** and ***manager.xml*** from the Tomcat distribution directory **webapps** to the relocated web application **webapps** directory.

2.   Edit the files ***admin.xml*** and ***manager.xml*** in the relocated web application **webapps** directory and adjust the absolute path **docBase** to the Tomcat distribution directory.

   admin.xml
   <Context path="/admin"
   docBase="D:/server/ApacheGroup/Tomcat4/webapps/admin" debug="0"
   privileged="true">

   manager.xml
   <Context path="/manager"
   docBase="D:/server/ApacheGroup/Tomcat4/webapps/manager" debug="0"
   privileged="true">

3.   Access the **Administration Application**: http://localhost:11002/admin
   Access the **Manager Application**: http://localhost:11002/manager/html