

Installation Instructions for a Web Service Application

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This instruction is only used for installation on Windows 2000/NT/XP.

Before Installation

- Make sure that you have the installation CD supplied along with this documentation.
- For the remainder of this document, we will assume all required files are contained on the D: drive.

Installing JAVA 2 SDK

1. Double click the file labelled "j2sdk-1_4_2_10-windows-i586-p.exe" in the tools folder on the D: drive to begin the setup.
2. Install to the default directory chosen by the install shield.
3. Once the installation is complete, you must set the JAVA_HOME:
 - 1) Click **Start**, and then click **Control Panel**.
 - 2) Double click **System**.
 - 3) Click **Advanced** tab.
 - 4) Click **Environment Variables**.
 - 5) Under **System Variables**, click **New**.
 - 6) Set the **Variable name** to 'JAVA_HOME'.
 - 7) Set the **Variable value** to 'c:\j2sdk1.4.2_10'. Click **OK**.
 - 8) Under **System Variables**, click the variable labelled 'Path' to highlight it. Click **Edit...**
 - 9) At the end of the variable value, add the following: ';C:\j2sdk1.4.2_10\bin', and then click **OK**.
 - 10) Click **Ok**, and Click **Ok** again.

Installing Tomcat 5.0.28

1. Double click the file labelled "jakatar-tomcat-5.0.28.exe" in the tools folder on the D: drive to begin the setup.
2. Follow the on-screen instructions to set up Tomcat.
3. When prompted about the directory to install Tomcat, enter 'C:\tomcat\Tomcat-5.0'.
4. Check the checkbox for NT Service to ensure that Tomcat is installed as a service.

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5. Once Tomcat is installed, you must setup the CATALINA_HOME:
 - 1) Click **Start**, and then click **Control Panel**.
 - 2) Double click **System**.
 - 3) Click **Advanced** tab.
 - 4) Click **Environment Variables....**
 - 5) Under **System variables**, click **New**.
 - 6) In the **Variable name** field, type 'CATALINA_HOME'.
 - 7) In the **Variable value** field, type 'c:\tomcat\Tomcat-5.0'. Click **OK**.
 - 8) Click **OK**, and then click **OK** again.
 - 9) Tomcat will now start when Windows starts. Tomcat must be started for the web service to work.

Installing AXIS

1. Double click the zip file labelled "xml-axis-11beta.zip" in the tools folder on the D: drive. All files in the zip file will be extracted to the folder named "C:\axis".
2. Once extraction is completed, navigate to the "C:\axis\axis-1_1beta\webapps" folder, and copy the folder called 'axis' to the folder "C:\tomcat\Tomcat-5.0\webapps\".

Installing MySQL

1. Double click the file labelled "Setup.exe" located in "D:\tools\mysql-4.0.0a-alpha-win".
2. Follow the onscreen instructions to do a typical installation of MySQL.
3. Install **MySQL** as a service.
 - 1) Open the Command Prompt.
 - 2) Type 'cd c:\mysql\bin', and press **Enter**.
 - 3) Type 'mysqld-nt --install', and press **Enter**.
 - 4) Type 'net start mysql', and press **Enter**.
4. Copy the file labelled "mm.mysql-2.0.4-bin.jar" located in the "D:\tools\jdbc_for_mysql" folder to the folder "C:\tomcat\Tomcat-5.0\webapps\axis\WEB-INF\lib".

Setting Up the Database Used by Web Service

1. Copy the file "create.sql" located from the folder "D:\database\" into the folder "C:\mysql\bin".
2. Start the **Command Prompt**.

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3. Type 'cd c:\mysql\bin'. Press **Enter**.
4. Type 'mysqladmin -u root password 123456', and press **Enter**.
Note: This will set the password as "123456" for the user root. Users should use real password instead of "123456" for security reason.
5. Type 'mysql -u root -p123456', and press **Enter** to get connected to **MySQL**. You should see the **MySQL** prompt.
6. Create user **ws** and database **ws**.
 - 1) Log into **MySQL** as the root.
 - 2) Type 'use mysql', and press **Enter**.
You are now inside **MySQL** database, and mysql database is active.
7. Type '\. create.sql', and press **Enter** to create database "ws" and user "ws" with password "ws".
8. Type 'quit', and press **Enter**.
9. Log in to **MySQL** as the user "ws" by entering the following command:
'mysql -u ws -pws ws'.
If you are able to log in, you have set up the user and database successfully.

Installing the Web Service Database

1. Copy the file "ws.sql" located in folder "D:\database\" into the folder "C:\mysql\bin".
2. Start the **Command Prompt**.
3. Type 'cd c:\mysql\bin', and press **Enter**.
4. Type 'mysql -u ws -pws ws', and press **Enter** to log into **MySQL** as the user "ws".
5. Type 'use ws', and press **Enter**. This sets the "ws" database as the active database.
6. Type '\. ws.sql" and press **Enter** to load the "ws" database.
7. Type 'show tables', and press **Enter**.
You should see the table "transactions"; that means the "transactions" table has been added.

Installing and Deploying the Web Service

1. Copy the folder "transactions" located in "D:\classes" into the folder "C:\tomcat\tomcat-5.0\webapps\axis\web-inf\classes".
2. Copy the files in the folder "D:\classes\libfiles" into the folder "C:\tomcat\tomcat-5.0\webapps\axis\WEB-INF\lib".

Deploying the Web Service

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1. Start the **Command Prompt**.
2. Type 'cd C:\tomcat\tomcat-5.0\webapps\axis\web-inf\classes\studentsupdate', and press **Enter**.
3. Type 'deploy' and press **Enter** to run the dos batch file "deploy.bat".
The web service should now be deployed.
4. Start Internet Explorer.
5. Type 'http://localhost:8080/axis' in the address bar. You can see **Apache Axis** Welcome page.
6. Click **view** link. You should see all the web services include the "transactions" web service.

Congratulations! Now you have successfully installed "transactions" web service.