

Web Service



Guest

Hi all,

I'm somewhat lost trying to get a first sample Web Service to work with IDEA 5.0.2 and the webservices plugin 0.4 build 5.

I've installed Tomcat 5.5.15 with Axis. Tthe Axis happyness page shows Axis is happy and the EchoHeaders.jws sample compiles and works fine.

So I created a new "Web Module" project in IDEA, leaving all to default values, put a simple method in a class in a package in /src, hit "Enable Web Service Support", built the Project, "Generate Wsdl from Java Code", configured Run/Debug to use local Tomcat (default values).

Using a web browser to access <http://localhost:8080/> (= deployment root/app context/startup page) results in Tomcat showing error 404 (<http://localhost:8080/axis> and everything else is ok).

The "Run" dialog in IDEA shows the web module is deployed ok, but

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trying to do Tools/"Deploy Java Class as Web Service" says:

"The web server is not running - launch the webservices web module in local Tomcat run/debug session".

Any clues? Thanks!



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Jan 14, 2006 1. **Re: Web Service** Jan 14, 2006 6:12 PM

Most likely problem with root context. Try changing context to nonempty one.



Guest 2. **Re: Web Service** Jan 14, 2006 9:12 PM

On Sat, 14 Jan 2006 18:12:24 +0300 (MSK), [AdvancedTools](#)

[<no_mail@jetbrains.com>](mailto:no_mail@jetbrains.com) wrote:

>Most likely problem with root context. Try changing context to nonempty one.

Does not seem to help - below are the steps I've taken so far and the results. I'd greatly appreciate if you could have a look on it.

May serve as tutorial sometime?

-

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Web Service

Install Tomcat: c:\programme\apache group\tomcat 5.5

(path to jdk 1.5.0_06 jre)

extract apache-tomcat-5.5.15-admin.zip to tomcat-directory

extract webapps\axis directory from axis-bin-1_3.zip to

tomcat\webapps\axis

extract to "c:\programme\apache group\tomcat

5.5\webapps\axis\WEB-INF\lib":

activation.jar from jaf-1_0_2-upd2.zip

mail.jar from javamail-1_3_3_01.zip

xmlsec-1.3.0.jar from xml-security-bin-1_3_0.zip

set PATH:

...;c:\Programme\Java\jdk1.5.0_05\bin;[...]

set CLASSPATH:

.;c:\Programme\Java\jdk1.5.0_05\lib\tools.jar

set JAVA_HOME:

C:\Programme\Java\jdk1.5.0_05

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set AXIS_HOME:

c:\programme\apache group\tomcat 5.5\webapps\axis\WEB-INF

set AXIS_LIB:

c:\programme\apache group\tomcat 5.5\webapps\axis\WEB-INF\lib

set AXISCLASSPATH:

%AXIS_LIB%\axis.jar;%AXIS_LIB%\commons-discovery.jar;

start Tomcat service

test Tomcat/Axis

<http://localhost:8080/axis/happyaxis.jsp>

ok - core and optional components present

<http://localhost:8080/axis/EchoHeaders.jws?method=list>

ok

stop Tomcat service

IDEA:

New Project "aWebServiceTest"

Web Service

Project JDK: 1.5.0_06

Single Module

Web Module

Module Name: "aWebService"

Module content root: c:\intellij-ws\aWebService

Application Server: Tomcat

(home=base directory: c:\programme\apache group\tomcat 5.5\

Libraries: commons-el, jasper-compiler-jdt, jasper-compiler,
jasper-runtime, jsp-api, naming-factory-dbc, naming-factory,
naming-resources, servlet-api)

Deployment Descriptors:

Web Module Deployment Descriptor:

C:\intellij-ws\aWebService\WEB-INF\web.xml (2.3)

Tomcat Context Descriptor:

C:\intellij-ws\aWebService\META-INF\context.xml (5.x)

Web resource directory:

C:\intellij-ws\aWebService\resources

relative path in deployment directory: /

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Web module exploded directory:

C:\intellij-ws\laWebService\exploded

Source directory:

src

Compiler output path:

C:\intellij-ws\laWebService\exploded\WEB-INF\classes

src -> new package "aWebServicePackage"

src/aWebServicePackage -> new class "aWebServiceClass"

aWebServiceClass:

```
package aWebServicePackage;
```

```
public class aWebServiceClass {
```

```
    public double aWebServiceMethod(String job, double x) {
```

```
        if ("Square".equalsIgnoreCase(job))
```

```
            return x * x;
```

```
        if ("Root".equalsIgnoreCase(job))
```

```
            return Math.sqrt(x);
```

```
        return 0.;
```

```
    }
```

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}

Compile aWebServiceClass

Generate WSDL from Java Code (Default, Document, Literal, 1.1)

Enable Web Service Support (Module aWebService)

Run/Edit Configurations:

Server: Tomcat Server: Local, Name: "local tomcat"

Application Server: "Tomcat", Startup page: "<http://localhost:8080/>"

Deployment: Module "aWebService": Deployment Source: Configure:

Create web module exploded directory

C:\intellij-ws\aWebService\exploded

exclude, synchronize

Create web module war file

C:\intellij-ws\aWebService\aWebService.war

"aWebService.war", Application context: /

Startup/connection: default (C:\Programme\Apache Group\Tomcat

5.5\bin\catalina.bat)

Run:

Web Service

```
cmd /c "C:\Programme\Apache Group\Tomcat 5.5\bin\catalina.bat" run
```

```
Using CATALINA_BASE: C:\Dokumente und
```

```
Einstellungen\x\IntelliJIdea50\system\tomcat_local_tomcat_ef0ba776
```

```
Using CATALINA_HOME: C:\Programme\Apache Group\Tomcat 5.5
```

```
Using CATALINA_TMPDIR: C:\Programme\Apache Group\Tomcat 5.5\temp
```

```
Using JRE_HOME: C:\Programme\Java\jdk1.5.0_03
```

```
14.01.2006 18:25:06 org.apache.coyote.http11.Http11AprProtocol init
```

```
INFO: Initializing Coyote HTTP/1.1 on http-8080
```

```
14.01.2006 18:25:07 org.apache.coyote.ajp.AjpAprProtocol init
```

```
INFO: Initializing Coyote AJP/1.3 on ajp-8009
```

```
14.01.2006 18:25:07 org.apache.catalina.startup.Catalina load
```

```
INFO: Initialization processed in 927 ms
```

```
14.01.2006 18:25:07 org.apache.catalina.core.StandardService start
```

```
INFO: Starting service Catalina
```

```
14.01.2006 18:25:07 org.apache.catalina.core.StandardEngine start
```

```
INFO: Starting Servlet Engine: Apache Tomcat/5.5.15
```

```
14.01.2006 18:25:07 org.apache.catalina.core.StandardHost start
```

```
INFO: XML validation disabled
```

```
log4j:WARN No appenders could be found for logger
```

```
(org.apache.catalina.startup.TldConfig).
```

```
log4j:WARN Please initialize the log4j system properly.
```

```
- Unable to find config file. Creating new servlet engine config
```

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file: /WEB-INF/server-config.wsdd

log4j:WARN No appenders could be found for logger

(org.apache.catalina.session.ManagerBase).

log4j:WARN Please initialize the log4j system properly.

14.01.2006 18:25:12 org.apache.coyote.http11.Http11AprProtocol start

INFO: Starting Coyote HTTP/1.1 on http-8080

14.01.2006 18:25:12 org.apache.coyote.ajp.AjpAprProtocol start

INFO: Starting Coyote AJP/1.3 on ajp-8009

14.01.2006 18:25:12 org.apache.catalina.storeconfig.StoreLoader load

INFO: Find registry server-registry.xml at classpath resource

14.01.2006 18:25:12 org.apache.catalina.startup.Catalina start

INFO: Server startup in 5481 ms

accessing <http://localhost:8080>: Tomcat: HTTP Status 404

accessing <http://localhost:8080/aWebService>: Tomcat: HTTP Status 404

Deploy Java Class as WSDL: "Web server not running ..."

Stop

Run (Deployment - Module "aWebService" - Deployment Source:

"aWebService.war" - Application Context: /aWebService => startup page:

Web Service

"<http://localhost:8080/aWebService/>"):

accessing <http://localhost:8080/>: Tomcat: HTTP Status 404

accessing <http://localhost:8080/aWebService/>: Tomcat: HTTP Status 404

Stop

-

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Greetings, gd.



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Jan 14, 2006 3. **Re: Web Service** Jan 14, 2006 9:39 PM

When selecting Tomcat run configuration, one can specify context to be used for running web module in 'Deployment' tab (it will mount your web module under <http://localhost:8080/SomeContext/>).

Actually, Axis library manipulations is not needed.



Guest 4. **Re: Web Service** Jan 15, 2006 3:37 AM

On Sat, 14 Jan 2006 21:39:04 +0300 (MSK), [AdvancedTools](#)

greet, gd.



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Jan 14, 2006 **5. Re: Web Service** Jan 15, 2006 2:07 PM

It is feature of Tomcat 5.5.15, return 404 when no default document for directory available (creating index.html with some content will show it). Please, check out if it is possible to deploy some class after launchjng the server.



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Jan 14, 2006 **6. Re: Web Service** Jan 15, 2006 9:50 PM

Bug with 'root' web server context is fixed in new version of the plugin. Thank you for the feedback.



[yo](#) 4 posts since

Jan 20, 2006 **7. El mismo problema** Jan 20, 2006 11:03 AM

Yo tengo el mismo problema con la versión del plugin 0.4 build 6. Tengo configurado el run/debug para que el web module arranque como <http://localhost:8081/sgrnet>, pero no consigo que me detecte que la aplicación está lanzada.

También me ha dado problemas el plugin con el plugin Struts Assistant (v0.99), ya que hay que desactivar el code completion de este último plugin para que no haya conflictos. Con la última versión del Idea no ha habido problema porque te avisa del hecho sin más al iniciar, pero con una versión anterior se colgaba al iniciar debido a la incompatibilidad de plugins.



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Jan 14, 2006 **8. Re: El mismo problema** Jan 20, 2006 12:13 PM

Current version of the plugin uses port 8080, shortcut clash with Struts is also target for the next plugin build. Thank you for the feedback.



yo 4 posts since

Jan 20, 2006 **9. Re: El mismo problema** Jan 20, 2006 1:14 PM

Efectivamente el problema anterior se ha corregido cambiando el puerto de mi tomcat al 8080, pero ahora, obtengo a cambio el siguiente error cuando quiero "deployar" una clase como un servicio web.

Axis Servlet is not present => invoke 'Enable Web Wervice Support' action for module.

Por supuesto he seguido previamente todos los pasos, y ya he hecho lo que se me solicita, tengo todas las librerías de axis en el proyecto, el web.xml está cambiado e incluso cuando en el navegador introduzco:

<http://localhost:8080/prueba/servlet/AxisServlet>

El servlet de Axis funciona correctamente.

No sé qué puedo estar haciendo mal, a ver si alguien me puede ayudar.

Un saludo y muchas gracias.



yo 4 posts since

Jan 20, 2006 **10. Re: El mismo problema** Jan 20, 2006 1:21 PM

Solucionado. Hay que poner el web context name y yo no lo hacía. Gracias.



[yo](#) 4 posts since

Jan 20, 2006 [11](#). **Re: El mismo problema** Jan 20, 2006 1:29 PM

Impresionante, funciona de maravilla, gracias.



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Jan 14, 2006 [12](#). **Re: El mismo problema** Jan 21, 2006 1:11 PM

Gracias por la regeneración