

How to create a Web service ?



[Arun Gupta](#) 30 posts since

Jun 5, 2004

With IDEA 6.0, I searched:

- bundled help
- online documentation
- forums
- intellij.net

but not able to find any documentation on how to create a Web service starting from Java and deploy it on a JavaEE compatible server, for example GlassFish. I could configure GlassFish but what other steps are required to develop/deploy/invoke the Web service ?

Thanks,

-Arun



[Norris Shelton](#) 669 posts since

Aug 29, 2002 1. **Re: How to create a Web service ?** Jan 23, 2007 4:48 PM

Please do not post in multiple forums. Research Apache Axis.



[Stephen Friedrich](#) 1,446 posts since

Aug 21, 2002 2. **Re: How to create a Web service ?** Jan 23, 2007 5:00 PM

I think the question is reasonable - other IDEs do have special support for WebServices.

How to create a Web service ?

I'm afraid Idea doesn't (but I am not really sure - even though I consider myself an experienced Idea user, I still discover new features every now and then).



[Arun Gupta](#) 30 posts since

Jun 5, 2004 3. **Re: How to create a Web service ?** Jan 23, 2007 8:39 PM

Exactly, NetBeans does allow to create a Web service [1](#) without knowing any toolkit specific details. I Googled but found no such capability in IDEA and it seems like I'll have to understand the capabilities of the underlying toolkit to be able to develop a Web service. This seems quite primitive to me.

[1 http://blogs.sun.com/arungupta/entry/creating_and_invoking_a_web](http://blogs.sun.com/arungupta/entry/creating_and_invoking_a_web)

Thanks,

-Arun



[Mike Key](#) 6 posts since

Oct 1, 2006 4. **Re: How to create a Web service ?** Jan 23, 2007 8:48 PM

There is a plugin for web services support, I believe its just called WebServicesPlugin.

However I would agree that in the modern age the fact that IntelliJ does not have core web services support is really strange and annoying. It is one of the few things I dislike about IDEA.

And on the topic of WebServicesPlugin, it seems to be very slow to rev. and has cross platform issues I've experienced (won't work on a *NIX based platforms). I submitted a bug to them and they said it would be fixed in the next revision coming soon...which was a few months ago with no update since.

How to create a Web service ?

Hate to turn this into a rant but I think its about time to speak up and ask for solid WS support in IDEA.



[Arun Gupta](#) 30 posts since

Jun 5, 2004 5. **Re: How to create a Web service ?** Jan 23, 2007 9:07 PM

Is <http://plugins.intellij.net/plugin/?id=133> what you are talking about ?

The change notes say:

"Supporting JWSDP2 bundled in JDK 1.6 / Glassfish"

I think by JWSDP2 the author meant JWSDP 2.0 which contains an older version of JAX-WS. JDK 1.6, or correctly called Java SE 6, contains JAX-WS 2.0 FCS. GlassFish v2 contains JAX-WS 2.1 (soon to be final).

So I'm not sure which version of JAX-WS is supported through this plugin ?

Has anybody used this plugin successfully as all the comments are reporting issues, even to the extent of hardcoded java.exe ? I'd like to hear at least one successful user before attempting to play with it.

-Arun



[AdvancedTools](#) 133 posts since

Jan 14, 2006 6. **Re: How to create a Web service ?** Jan 23, 2007 9:36 PM

Java Web Services Development Pack v 2 (= JWSDP2) contains JAX-WS 2 ea

Java SE 6 contains JAX-WS 2 final

How to create a Web service ?

Plugin supports working both stable versions and work with JEE 5 (Glassfish based) JAX-WS 2 configuration



[Arun Gupta](#) 30 posts since

Jun 5, 2004 7. **Re: How to create a Web service ?** Jan 23, 2007 9:57 PM

Are there any instructions on getting started with the plug-in ?

Looking at the comments, I feel slightly skeptical in using it.

-Arun



[AdvancedTools](#) 133 posts since

Jan 14, 2006 8. **Re: How to create a Web service ?** Jan 23, 2007 10:26 PM

There is indeed some learning curve (or from another perspective, ways to enhance the plugin, the plugin is just coming to 0.7 😊)

Information on getting started is provided in WebServices tab that appears after plugin installation.



[Arun Gupta](#) 30 posts since

Jun 5, 2004 9. **Re: How to create a Web service ?** Jan 24, 2007 5:07 AM

Ok, I installed the plugin and created a Web project with the following service:

```
public class Hello {  
  
    public String sayHello(String name) {  
  
        return "Hello " + name;  
  
    }  
  
}
```

How to create a Web service ?

```
}
```

and selected Tools, WebService, Expose as Web service and got the following exception:

Error during dispatching of java.awt.event.MouseEvent[MOUSE_RELEASED, (79,70),button=1,modifiers=Button1,clickCount=1] on ###overrideRedirect###

java.lang.NullPointerException

at

com.intellij.openapi.roots.ModuleRootManager.getInstance(ModuleRootManager.java:36)

at com.advancedtools.webservices.utils.D.o00000(Unknown Source)

at com.advancedtools.webservices.utils.D.o00000(Unknown Source)

at com.advancedtools.webservices.o000.o000.000000(Unknown Source)

at com.advancedtools.webservices.actions.String.o00000(Unknown Source)

at com.advancedtools.webservices.actions.String.OO0000(Unknown Source)

at com.advancedtools.webservices.actions.String.(Unknown Source)

at

com.advancedtools.webservices.actions.DeployWebServiceAction.actionPerformed(Unknown Source)

at com.intellij.openapi.actionSystem.impl.ActionMenuItem

\$ActionTransmitter.actionPerformed(ActionMenuItem.java:1)

at javax.swing.AbstractButton.fireActionPerformed(AbstractButton.java:1849)

at

com.intellij.openapi.actionSystem.impl.ActionMenuItem.fireActionPerformed(ActionMenuItem.java:70)

at com.intellij.ui.plaf.beg.BegMenuItemUI.a(BegMenuItemUI.java:130)

at com.intellij.ui.plaf.beg.BegMenuItemUI.access\$300(BegMenuItemUI.java:11)

How to create a Web service ?

at java.awt.EventQueue.pumpEvents(EventDispatchThread.java:149)

at java.awt.EventQueue.run(EventDispatchThread.java:110)

Any ideas ?

-Arun



[AdvancedTools](#) 133 posts since

Jan 14, 2006 10. **Re: How to create a Web service ?** Jan 24, 2007 2:47 PM

You seem to be using different module type

Create new project with WEB module (all default settings).

Create service class

Invoke 'enable web services support' on the module with 'JWSDP2' setting.

Annotate java class as `WebService` and compile it.

Invoke 'expose class as web service' on created class.

Run local tomcat with this module deployed .

-

web service is ready for consuming ---

Generate Java Code With Wsdl with appropriate wsdl url

In client code invoke 'Generate' action that generates stub code for web service invocation

Run the client



[Arun Gupta](#) 30 posts since

Jun 5, 2004 11. **Re: How to create a Web service ?** Jan 24, 2007 8:29 PM

How to create a Web service ?

Ok, I made progress with these instructions. It'd be helpful if you can update these instructions in the WebServices tab as well 😊

I created a new configuration with local Tomcat (that got downloaded as part of JWSDP 2.0) and deployed the module. The Run window shows "hello" module successfully deployed with a green button. But <http://localhost:8080/hello> gives a 404. I see that "hello" is not deployed either to webapps or conf/Catalina/localhost. "exploded" directory in the project directory is properly created though.

What's missing now ?

-Arun



[AdvancedTools](#) 133 posts since

Jan 14, 2006 12. **Re: How to create a Web service ?** Jan 24, 2007 8:55 PM

will update the description for 0.7.1

try <http://localhost:8080/services/hello> 😊



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Jun 5, 2004 13. **Re: How to create a Web service ?** Jan 24, 2007 9:07 PM

In the Deployment tab, I configured Deployment source, selected "Create web module war file" and specified the location of war file in TOMCAT_HOME/webapps. So atleast I got past the previous issue but wondering if there is an easier way to do this ?

I got the following error during deployment though:

How to create a Web service ?

```
SEVERE: WSSERVLET11: failed to parse runtime descriptor:  
javax.xml.ws.WebServiceException: java.lang.ClassCastException:  
com.sun.xml.xwss.SystemHandlerDelegateFactory
```

```
javax.xml.ws.WebServiceException: java.lang.ClassCastException:  
com.sun.xml.xwss.SystemHandlerDelegateFactory
```

```
at  
com.sun.xml.ws.spi.runtime.SystemHandlerDelegateFactory.getFactory(SystemHandlerDelegateFactory
```

```
at  
com.sun.xml.ws.binding.soap.SOAPBindingImpl.setupSystemHandlerDelegate(SOAPBindingImpl.java:2
```

```
at com.sun.xml.ws.binding.soap.SOAPBindingImpl.(SOAPBindingImpl.java:66)
```

```
at com.sun.xml.ws.binding.BindingImpl.getBinding(BindingImpl.java:179)
```

```
at  
com.sun.xml.ws.transport.http.servlet.RuntimeEndpointInfoParser.parseEndpoints(RuntimeEndpointInfo
```

```
at  
com.sun.xml.ws.transport.http.servlet.RuntimeEndpointInfoParser.parse(RuntimeEndpointInfoParser.jav
```

```
at  
com.sun.xml.ws.transport.http.servlet.WSServletContextListener.contextInitialized(WSServletContextLis
```

```
at org.apache.catalina.core.StandardContext.listenerStart(StandardContext.java:3729)
```

```
at org.apache.catalina.core.StandardContext.start(StandardContext.java:4226)
```

```
at org.apache.catalina.core.ContainerBase.addChildInternal(ContainerBase.java:823)
```

Looking at the war file, I see that all the jars are bundled in WEB-INF/lib. Is the expectation to install JWSDP in Tomcat and then use that instance or JWSDP without any container ?

-Arun



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How to create a Web service ?

Jan 14, 2006 14. **Re: How to create a Web service ?** Jan 24, 2007 9:24 PM

Simplest way to run web service with TomCat (I use 5.5.17 / JDK 1.5) in development mode is leave default 'exploded' deployment (need selecting the module in Deployment tab of Run configuration) and do copy all the jars (also set by default). When using GlassFish/JDK 1.6 or JEE5 for servlet container or production server the JWSDP jars should be removed from deployment (module settings -> Web ModuleSettings)



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Jun 5, 2004 15. **Re: How to create a Web service ?** Jan 24, 2007 10:05 PM

With Tomcat 5.5.20/JDK 1.5.0_10 and all defaults, I'm getting the following error:

```
Jan 24, 2007 11:02:20 AM com.sun.xml.ws.transport.http.servlet.WSServletContextListener
contextInitialized
```

```
SEVERE: WSSERVLET11: failed to parse runtime descriptor:
java.lang.NullPointerException
```

```
java.lang.NullPointerException
```

```
at
```

```
com.sun.xml.ws.modeler.RuntimeModeler.processDocWrappedMethod(RuntimeModeler.java:541)
```

```
at com.sun.xml.ws.modeler.RuntimeModeler.processMethod(RuntimeModeler.java:505)
```

```
at com.sun.xml.ws.modeler.RuntimeModeler.processClass(RuntimeModeler.java:353)
```

```
at
```

```
com.sun.xml.ws.modeler.RuntimeModeler.buildRuntimeModel(RuntimeModeler.java:249)
```

```
at
```

```
com.sun.xml.ws.server.RuntimeEndpointInfo.createModel(RuntimeEndpointInfo.java:180)
```

```
at com.sun.xml.ws.server.RuntimeEndpointInfo.init(RuntimeEndpointInfo.java:326)
```

```
at
```

```
com.sun.xml.ws.transport.http.servlet.WSServletContextListener.createModelAndMetadata(WSServletC
```

```
at
```

```
com.sun.xml.ws.transport.http.servlet.WSServletContextListener.contextInitialized(WSServletContextLis
```

How to create a Web service ?

```
at org.apache.catalina.core.StandardContext.listenerStart(StandardContext.java:3763)
at org.apache.catalina.core.StandardContext.start(StandardContext.java:4211)
at org.apache.catalina.core.ContainerBase.addChildInternal(ContainerBase.java:759)
at org.apache.catalina.core.ContainerBase.addChild(ContainerBase.java:739)
at org.apache.catalina.core.StandardHost.addChild(StandardHost.java:524)
at org.apache.catalina.startup.HostConfig.deployDescriptor(HostConfig.java:608)
at org.apache.catalina.startup.HostConfig.deployDescriptors(HostConfig.java:535)
at org.apache.catalina.startup.HostConfig.deployApps(HostConfig.java:470)
at org.apache.catalina.startup.HostConfig.start(HostConfig.java:1122)
at org.apache.catalina.startup.HostConfig.lifecycleEvent(HostConfig.java:310)
at org.apache.catalina.util.LifecycleSupport.fireLifecycleEvent(LifecycleSupport.java:119)
at org.apache.catalina.core.ContainerBase.start(ContainerBase.java:1021)
at org.apache.catalina.core.StandardHost.start(StandardHost.java:718)
at org.apache.catalina.core.ContainerBase.start(ContainerBase.java:1013)
at org.apache.catalina.core.StandardEngine.start(StandardEngine.java:442)
at org.apache.catalina.core.StandardService.start(StandardService.java:450)
at org.apache.catalina.core.StandardServer.start(StandardServer.java:709)
at org.apache.catalina.startup.Catalina.start(Catalina.java:551)
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)
at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)
at java.lang.reflect.Method.invoke(Method.java:585)
```

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```
at org.apache.catalina.startup.Bootstrap.start(Bootstrap.java:294)
```

```
at org.apache.catalina.startup.Bootstrap.main(Bootstrap.java:432)
```

Jan 24, 2007 11:02:20 AM org.apache.catalina.core.StandardContext start

SEVERE: Error listenerStart

Jan 24, 2007 11:02:20 AM org.apache.catalina.core.StandardContext start

SEVERE: Context [] startup failed due to previous errors

Any idea ?

-Arun



[AdvancedTools](#) 133 posts since

Jan 14, 2006 16. **Re: How to create a Web service ?** Jan 25, 2007 12:17 AM

Expose class as WebService action launches generation of deployment code (you should see sun-jaxws.xml and *.java) and externally generated code seems not picked/compiled by Idea before running TomCat, please, invoke 'synchronize' (control + alt + y usually) after 'expose' action completes.



[Arun Gupta](#) 30 posts since

Jun 5, 2004 17. **Re: How to create a Web service ?** Jan 26, 2007 5:44 AM

I did that but still getting the same error.

Also wondering CtrlAltY only brings visual and physical representation in sync. Does the plugin depend on visual representation rather than physical on the disk ?



[AdvancedTools](#) 133 posts since

Jan 14, 2006 18. **Re: How to create a Web service ?** Jan 28, 2007 12:34 AM

How to create a Web service ?

Expose action does generation of web services stubs, if one does not do "synchronize" then on IDEA's subsequent compile / make the generated sources/classes does not get copied into exploded directory (and thus does not found during web context initialization). I suggest you to create JIRA item with your zipped sample project attached and I will look for it ASAP (It works with my clean project created from scratch).



[Arun Gupta](#) 30 posts since

Jun 5, 2004 19. **Re: How to create a Web service ?** Jan 28, 2007 8:06 AM

Filed: <http://www.jetbrains.net/jira/browse/WSVC-55>



[AdvancedTools](#) 133 posts since

Jan 14, 2006 20. **Re: How to create a Web service ?** Jan 28, 2007 12:47 PM

This seems to be bug of JWSDP with classes in default package.

Put the web service class into some nonempty package and all starts to works.



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Jan 14, 2006 21. **Re: How to create a Web service ?** Jan 28, 2007 12:50 PM

Beware of possible <http://www.jetbrains.net/jira/browse/WSVC-41> issue during expose, the issue description contains workaround



[Arun Gupta](#) 30 posts since

Jun 5, 2004 22. **Re: How to create a Web service ?** Jan 30, 2007 2:55 AM

I noticed it but didn't try the workaround. But will do so when I hit this next time. Thanks for the heads up.

-Arun



[Arun Gupta](#) 30 posts since

Jun 5, 2004 23. **Re: How to create a Web service ?** Jan 30, 2007 2:52 AM

Ok, I got my Web service deployed, phew 😊

How to create a Web service ?

I generated client artifacts from the endpoint using "Generate Java Code From Wsdl". So I created a new client class and add a psvm method there as:

```
public static void main(String[] args) {  
  
    System.out.println(new HelloService().getHelloPort().sayHello("Duke"));  
  
}
```

After compiling this class, when I try to invoke the client it gives me the following error:

-- cut here --

```
C:\testbed\jdk1.5.0_10\bin\java -Didea.launcher.port=7532 "-Didea.launcher.bin.path=C:\Program Files\JetBrains\IntelliJ IDEA 6.0\bin" -Dfile.encoding=windows-1252 -classpath "C:\testbed\jdk1.5.0_10\jre\lib\charsets.jar;C:\testbed\jdk1.5.0_10\jre\lib\deploy.jar;C:\testbed\jdk1.5.0_10\jre\lib\javaws.jar;C:\testbed\jdk1.5.0_10\jre\lib\jce.jar;C:\testbed\jdk1.5.0_10\jre\lib\jsse.jar;C:\testbed\jdk1.5.0_10\jre\lib\plugin.jar;C:\testbed\jdk1.5.0_10\jre\lib\rt.jar;C:\testbed\jdk1.5.0_10\jre\lib\ext\dnsns.jar;C:\testbed\jdk1.5.0_10\jre\lib\ext\localedata.jar;C:\testbed\jdk1.5.0_10\jre\lib\ext\sunjce_provider.jar;C:\testbed\jdk1.5.0_10\jre\lib\ext\sunpkcs11.jar;C:\temp\samples\hello\classes\test\hello;C:\temp\samples\hello\classes\production\hello;C:\Program Files\JetBrains\IntelliJ IDEA 6.0\lib\j2ee.jar;C:\testbed\jwsdp-2.0\jaxb\lib\jaxb-impl.jar;C:\testbed\jwsdp-2.0\jaxb\lib\jaxb1-impl.jar;C:\testbed\jwsdp-2.0\jaxb\lib\jaxb-api.jar;C:\testbed\jwsdp-2.0\jwsdp-shared\lib\activation.jar;C:\testbed\jwsdp-2.0\sjsxp\lib\jsr173_api.jar;C:\testbed\jwsdp-2.0\sjsxp\lib\sjsxp.jar;C:\testbed\jwsdp-2.0\jaxws\lib\jaxws-api.jar;C:\testbed\jwsdp-2.0\jaxws\lib\jsr181-api.jar;C:\testbed\jwsdp-2.0\jaxws\lib\jsr250-api.jar;C:\testbed\jwsdp-2.0\jaxws\lib\jaxws-rt.jar;C:\testbed\jwsdp-2.0\jwsdp-shared\lib\resolver.jar;C:\testbed\jwsdp-2.0\saaj\lib\saaj-api.jar;C:\testbed\jwsdp-2.0\saaj\lib\saaj-impl.jar;C:\Program Files\JetBrains\IntelliJ IDEA 6.0\lib\idea_rt.jar" com.intelij.rt.execution.application.AppMain client.HelloClient
```

```
Exception in thread "main" javax.xml.ws.WebServiceException:  
java.lang.NoSuchMethodError: javax.xml.soap.MessageFactory.newInstance(Ljava/lang/  
String;)Ljavax/xml/soap/MessageFactory;
```

How to create a Web service ?

```
at
com.sun.xml.ws.protocol.soap.client.SOAPMessageDispatcher.doSend(SOAPMessageDispatcher.java:
at
com.sun.xml.ws.protocol.soap.client.SOAPMessageDispatcher.send(SOAPMessageDispatcher.java:153)
    at com.sun.xml.ws.encoding.soap.internal.DelegateBase.send(DelegateBase.java:85)
at
com.sun.xml.ws.client.EndpointIFInvocationHandler.implementSEIMethod(EndpointIFInvocationHandler
at
com.sun.xml.ws.client.EndpointIFInvocationHandler.invoke(EndpointIFInvocationHandler.java:105)
    at $Proxy17.sayHello(Unknown Source)
    at client.HelloClient.main(HelloClient.java:12)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)
    at java.lang.reflect.Method.invoke(Method.java:585)
    at com.intellij.rt.execution.application.AppMain.main(AppMain.java:90)
```

Caused by: java.lang.NoSuchMethodError:

```
javax.xml.soap.MessageFactory.newInstance(Ljava/lang/String;)Ljavax/xml/soap/
MessageFactory;
```

```
    at com.sun.xml.ws.util.SOAPUtil.createMessageFactory(SOAPUtil.java:174)
    at com.sun.xml.ws.util.SOAPUtil.(SOAPUtil.java:43)
at
com.sun.xml.ws.encoding.soap.client.SOAPXMLEncoder.toSOAPMessage(SOAPXMLEncoder.java:180)
at
com.sun.xml.ws.protocol.soap.client.SOAPMessageDispatcher.doSend(SOAPMessageDispatcher.java:
... 11 more
```

How to create a Web service ?

Process finished with exit code 1

-- cut here --

Any idea ?

-Arun



[AdvancedTools](#) 133 posts since

Jan 14, 2006 [24](#). **Re: How to create a Web service ?** Jan 31, 2007 6:53 PM

Remove j2ee.jar from classpath of the client module (or move it down in priority) in Dependencies tab of the client module settings.

Btw, you can quickly generate web service invocation by using Generate action (Alt + Ins on Windows)



[Arun Gupta](#) 30 posts since

Jun 5, 2004 [25](#). **Re: How to create a Web service ?** Feb 1, 2007 5:10 AM

That did the trick!

I'm able to build/deploy/invoke a Web service using the Web services plugin. I'll post this experience on my blog and share the link. In the mean while, [1](#) is an alternative way to create interoperable Web services deployed on GlassFish using IntelliJ IDEA.

Thanks for all your help!

[1 http://blogs.sun.com/arungupta/entry/creating_and_invoking_a_web1](http://blogs.sun.com/arungupta/entry/creating_and_invoking_a_web1)

How to create a Web service ?

-Arun



[AdvancedTools](#) 133 posts since

Jan 14, 2006 [26](#). **Re: How to create a Web service ?** Feb 1, 2007 3:48 PM

Nice, I wonder however if web service "autodetection" works in the older versions of the Glassfish (e.g. JEE 5), since if it isn't, then one still needs some additional magic passes 😊



[Arun Gupta](#) 30 posts since

Jun 5, 2004 [27](#). **Re: How to create a Web service ?** Feb 1, 2007 7:53 PM

Here are the steps as I promised:

http://blogs.sun.com/arungupta/entry/web_services_in_intellijidea_using

Thanks,

-Arun



[AdvancedTools](#) 133 posts since

Jan 14, 2006 [28](#). **Re: How to create a Web service ?** Jan 24, 2007 2:48 PM

And thank you for the feedback 😊



[Arun Gupta](#) 30 posts since

Jun 5, 2004 [29](#). **Re: How to create a Web service ?** Jan 24, 2007 8:30 PM

Sure, I hope IntelliJ ships this module as default instead of separately downloadable. But there is still work required before it can be integrated. Good luck 😊

How to create a Web service ?

I also wish other users find this conversation useful.

-Arun



[AdvancedTools](#) 133 posts since

Jan 14, 2006 30. **Re: How to create a Web service ?** Jan 24, 2007 9:00 PM

Surely, the plugin will be updated for smoother initial experience (probably, wizards :).

For interested users: problems with WebServices plugin are tracked in JIRA <http://www.jetbrains.net/jira/browse/WSVC>



[Arun Gupta](#) 30 posts since

Jun 5, 2004 31. **Re: How to create a Web service ?** Jan 24, 2007 9:47 AM

I downloaded and installed JWSDP 2.0 and configured the plugin. When I click on "Enable Web Service Support" and chose JWSDP 2.0 as the server, then I'm getting:

```
Error during dispatching of java.awt.event.MouseEvent[MOUSE_RELEASED, (44,148),button=1,modifiers=Button1,clickCount=1] on dialog2
```

```
java.lang.NullPointerException
```

```
at
```

```
com.intellij.openapi.roots.ModuleRootManager.getInstance(ModuleRootManager.java:36)
```

```
at com.advancedtools.webservices.utils.G.o00000(Unknown Source)
```

```
at com.advancedtools.webservices.utils.G.o00000(Unknown Source)
```

```
at
```

```
com.advancedtools.webservices.actions.EnableWebServicesSupportAction.o00000(Unknown Source)
```

```
at com.advancedtools.webservices.actions.EnableWebServicesSupportAction.access $000(Unknown Source)
```

How to create a Web service ?

```
at com.advancedtools.webservices.actions.EnableWebServicesSupportAction
$1.run(Unknown Source)

at com.advancedtools.webservices.utils.oOOO.new.doOKAction(Unknown Source)

at com.advancedtools.webservices.actions.E.doOKAction(Unknown Source)

at com.intellij.openapi.ui.DialogWrapper
$OkAction.actionPerformed(DialogWrapper.java:856)

at javax.swing.AbstractButton.fireActionPerformed(AbstractButton.java:1849)

at javax.swing.AbstractButton$Handler.actionPerformed(AbstractButton.java:2169)

at javax.swing.DefaultButtonModel.fireActionPerformed(DefaultButtonModel.java:420)

at javax.swing.DefaultButtonModel.setPressed(DefaultButtonModel.java:258)

at
javax.swing.plaf.basic.BasicButtonListener.mouseReleased(BasicButtonListener.java:236)

at java.awt.Component.processMouseEvent(Component.java:5488)

at javax.swing.JComponent.processMouseEvent(JComponent.java:3126)

at java.awt.Component.processEvent(Component.java:5253)

at java.awt.Container.processEvent(Container.java:1966)

at java.awt.Component.dispatchEventImpl(Component.java:3955)

at java.awt.Container.dispatchEventImpl(Container.java:2024)

at java.awt.Component.dispatchEvent(Component.java:3803)

at java.awt.LightweightDispatcher.retargetMouseEvent(Container.java:4212)

at java.awt.LightweightDispatcher.processMouseEvent(Container.java:3892)

at java.awt.LightweightDispatcher.dispatchEvent(Container.java:3822)

at java.awt.Container.dispatchEventImpl(Container.java:2010)

at java.awt.Window.dispatchEventImpl(Window.java:1778)
```

How to create a Web service ?

```
at java.awt.Component.dispatchEvent(Component.java:3803)
at java.awt.EventQueue.dispatchEvent(EventQueue.java:463)
at com.intellij.ide.IdeEventQueue.b(IdeEventQueue.java:8)
at com.intellij.ide.IdeEventQueue.a(IdeEventQueue.java:182)
at com.intellij.ide.IdeEventQueue.dispatchEvent(IdeEventQueue.java:184)
at
java.awt.EventQueue.dispatchEvent(EventQueue.java:242)
at
java.awt.EventQueue.dispatchEvent(EventQueue.java:163)
at java.awt.EventQueue.dispatchEvent(EventQueue.java:157)
at java.awt.EventQueue.dispatchEvent(EventQueue.java:149)
at java.awt.EventQueue.dispatchEvent(EventQueue.java:110)
```

Any idea ? And if I try to generate WSDL ignoring the error in previous step, then I get the following exception:

Problem encountered during annotation processing;

see stacktrace below for more information.

modeler error: A web service endpoint could not be found

```
at
com.sun.tools.ws.processor.modeler.annotation.WebServiceAP.onError(WebServiceAP.java:195)
at
com.sun.tools.ws.processor.modeler.annotation.WebServiceAP.onError(WebServiceAP.java:188)
```

How to create a Web service ?

```
at
com.sun.tools.ws.processor.modeler.annotation.WebServiceAP.onError(WebServiceAP.java:176)

at
com.sun.tools.ws.processor.modeler.annotation.WebServiceAP.buildModel(WebServiceAP.java:329)

at
com.sun.tools.ws.processor.modeler.annotation.WebServiceAP.process(WebServiceAP.java:219)

at com.sun.mirror.apt.AnnotationProcessors
$CompositeAnnotationProcessor.process(AnnotationProcessors.java:60)

at com.sun.tools.apt.comp.Apt.main(Apt.java:454)

at com.sun.tools.apt.main.JavaCompiler.compile(JavaCompiler.java:448)

at com.sun.tools.apt.main.Main.compile(Main.java:1075)

at com.sun.tools.apt.main.Main.compile(Main.java:938)

at com.sun.tools.apt.Main.processing(Main.java:95)

at com.sun.tools.apt.Main.process(Main.java:85)

at com.sun.tools.apt.Main.process(Main.java:67)

at com.sun.tools.ws.wscompile.CompileTool.buildModel(CompileTool.java:559)

at com.sun.tools.ws.wscompile.CompileTool.run(CompileTool.java:492)

at com.sun.tools.ws.util.ToolBase.run(ToolBase.java:54)

at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)

at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)

at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)

at java.lang.reflect.Method.invoke(Method.java:585)

at com.sun.tools.ws.Invoker.main(Invoker.java:41)

at com.sun.tools.ws.WsGen.main(WsGen.java:28)
```

How to create a Web service ?

Can you provide clear steps on how to get a simple Web service sample working with JWSDP 2.0 ?

-Arun



[Arun Gupta](#) 30 posts since

Jun 5, 2004 [32](#). **Re: How to create a Web service ?** Feb 1, 2007 5:12 AM

I've been able to successfully develop/deploy/invoke a Web service using JWSDP 2. What additional steps are required for Java SE 6 or GlassFish-based endpoints ?

-Arun



[AdvancedTools](#) 133 posts since

Jan 14, 2006 [33](#). **Re: How to create a Web service ?** Feb 1, 2007 3:20 PM

Basically when one wants to use GlassFish based web service then it is enough to point to GlassFish install in WebServices plugin settings. After that, just repeat the steps for web service develop/deployment you have done previously.

As to JDK6: when JWSDP2 path is empty and the client module uses JDK6 then generation of web services client stubs will proceed with JDK6 built-in tools.



[Arun Gupta](#) 30 posts since

Jun 5, 2004 [34](#). **Re: How to create a Web service ?** Feb 1, 2007 7:23 PM

Configuring the plugin shows the following window:

<http://blogs.sun.com/arungupta/resource/images/intellij-jwsdp-ws-configure.PNG>

I don't see any GlassFish configuration here. What am I missing ?

How to create a Web service ?

-Arun



[AdvancedTools](#) 133 posts since

Jan 14, 2006 [35](#). **Re: How to create a Web service ?** Feb 1, 2007 7:29 PM

Just point JWSDP2 path to Glassfish install



[Arun Gupta](#) 30 posts since

Jun 5, 2004 [36](#). **Re: How to create a Web service ?** Feb 1, 2007 7:45 PM

If I select GlassFish build, then Ok button gets disabled.

I'm using GlassFish v2 b33 (<https://glassfish.dev.java.net/servlets/NewsItemView?newsItemID=4579>).



[AdvancedTools](#) 133 posts since

Jan 14, 2006 [37](#). **Re: How to create a Web service ?** Feb 1, 2007 7:52 PM

Weird, plugin accepts Glassfish directory if it contains subdirectory 'lib' that contains 'appserv-ws.jar' containing JAX-WS implementation. This works for JEE 5 install.



[Arun Gupta](#) 30 posts since

Jun 5, 2004 [38](#). **Re: How to create a Web service ?** Feb 1, 2007 7:56 PM

In GlassFish v2, appserv-ws.jar is replaced by webservices-rt.jar and webservices-tools.jar. This might work for GlassFish v1 but that's not the focus of my study.

Do you think you might be able to add a separate GlassFish v2 line item in the configuration dialog ? I'll be happy to provide support required for that.

-Arun

How to create a Web service ?



[AdvancedTools](#) 133 posts since

Jan 14, 2006 39. **Re: How to create a Web service ?** Feb 1, 2007 8:04 PM

Ok, will include the support for Glassfish v.2



[AdvancedTools](#) 133 posts since

Jan 14, 2006 40. **Re: How to create a Web service ?** Feb 5, 2007 6:01 PM

You can use GlassFish v.2 or JAX-WS 2.1 RI with updated version of the plugin



[Arun Gupta](#) 30 posts since

Jun 5, 2004 41. **Re: How to create a Web service ?** Feb 5, 2007 10:21 PM

I'm getting the following error:

-- cut here --

CLI026 Multiple declaration of option "haproperty" in the descriptor file.

Disconnected from server

-- cut here --

Any idea ?

-Arun



[AdvancedTools](#) 133 posts since

Jan 14, 2006 42. **Re: How to create a Web service ?** Feb 5, 2007 10:40 PM

Please, add Glassfish specific descriptor in Web Module Settings.

Add unique -context-web-root- value like /myhello

How to create a Web service ?



[Arun Gupta](#) 30 posts since

Jun 5, 2004 43. **Re: How to create a Web service ?** Feb 5, 2007 11:11 PM

I wonder why sun-jaxws.xml and sun-web.xml, both, are added. Where do you want me to add context-root and can you give the exact fragment ?

-Arun



[AdvancedTools](#) 133 posts since

Jan 14, 2006 44. **Re: How to create a Web service ?** Feb 5, 2007 11:35 PM

In sun-web.xml you need to add 'context-root' tag with appropriate value. Result

sun-web.xml looks like following text:

-

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!DOCTYPE sun-web-app PUBLIC
```

```
    "-//Sun Microsystems, Inc.//DTD Application Server 9.0 Servlet 2.5//EN"
```

```
    "http://www.sun.com/software/dtd/appserver/sun-web-app\_2\_5-0.dtd">
```

```
<sun-web-app>
```

```
    <context-root>/myservice2</context-root>
```

```
</sun-web-app>
```

-

JAX-WS RI needs sun-jaxws.xml to have description mapping from context path to web service class.

If you deploy web app interactively via application deployer then all such application vendor specific files are hidden under the cover.

How to create a Web service ?



[Arun Gupta](#) 30 posts since

Jun 5, 2004 45. **Re: How to create a Web service ?** Feb 10, 2007 9:32 PM

Thanks for your help. I could finally deploy and invoke a Web service using GlassFish v2 in IntelliJ through the Web services plugin. Read about it at:

http://blogs.sun.com/arungupta/entry/glassfish_v2_supported_in_intellij

I could get away without needing the GlassFish specific deployment descriptor.