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Axis Web services Problem: No compiler found in your classpath! (you may need to add 'tools.jar')

Article By Kamal Mettananda on March 12, 2008

java.lang.RuntimeException: No compiler found in your classpath! (you may need to add 'tools.jar')

While trying to deploy a web service in Tomcat (1.5) with Axis 1.4, you may have encountered the above error message. If you have faced with that, following information will help you in fixing it.

If you are at servier side, this error may be logged in Tomcat log file as follows.

```
- No compiler found in your classpath! (you may need to add 'tools.jar')
java.lang.ClassNotFoundException: sun.tools.javac.Main
at
org.apache.catalina.loader.WebappClassLoader.loadClass(WebappClass
....
```

On client side, you'll receive this error as follows.

```
Exception in thread "main" AxisFault
faultCode:
{http://schemas.xmlsoap.org/soap/envelope/}Server.userException
faultSubcode:
faultString: java.lang.RuntimeException: No compiler found in your
classpath! (you may need to add 'tools.jar')
faultActor:
faultNode:
faultDetail:

{http://xml.apache.org/axis/}hostname:myhost
```

So the obvious solution you would try is adding %JAVA_HOME%\lib\tools.jar into your CLASSPATH variable even if you were at server side or the client side. But this will not solve the issue.

Solution:
Copy %JAVA_HOME%\lib\tools.jar file into %CATALINA_HOME%\common\lib folder and restart tomcat.

Why %JAVA_HOME%\lib\tools.jar is not identified?
If you check happyaxis.jsp page (http://127.0.0.1:8080/axis/happyaxis.jsp); under "Examining System Properties" you'll see that property **java.home** is set to the JRE path, not the JDK path in your machine. (even though %JAVA_HOME% points to JDK installation). In my machine it looked as follows.

java.vm.version=1.6.0_03-b05
java.home=C:\Java\jre1.6.0_03

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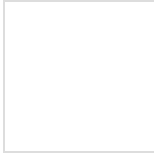
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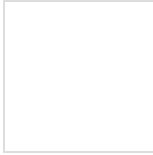10. GWT releases 1.4 and is no longer beta

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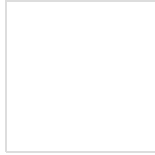
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26 Comments for "Axis Web services Problem: No compiler found in your classpath! (you may need to add 'tools.jar')"

1. <u>Afkham Azeez</u>   on <u>March 25, 2008 4:50 PM</u>

   Why are you guys still using Axis? Axis2(ws.apache.org/axis2) is one of the best generation 3 WS engines. Better still, try WSO2 WSAS (http://wso2.org/projects/wsas/java) which is the enterprise ready version of Axis2

2. Anonymous on <u>June 19, 2008 10:39 PM</u>

   Excellent article, it solved my problem quick and efficient.

   Thank you!
   Bradut Dima

3. <u>uday</u>   on <u>August 28, 2008 3:02 PM</u>

   while deployin the webservices the following occurs

   > java org.apache.axis.client.AdminClient org\
   kamal\wssample\ws\generated\deploy.wsdd
   Processing file org\kamal\wssample\ws\generated\deploy.wsdd
   Exception: AxisFault
   faultCode: {http://xml.apache.org/axis/}HTTP
   faultSubcode:
   faultString: (404)Not found
   faultActor:
   faultNode:
   faultDetail:
   {}:return code: 404
   <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">

```
</HEAD><BODY><H1>Not found</H1>
The requested URL /axis/services/AdminService was not found on this server</BODY></HTML>
```

{http://xml.apache.org/axis/}HttpErrorCode:404

4. Kamal Mettananda on August 28, 2008 3:22 PM

Seems you have posted a comment here, but related to web services tutorial . Please refer to that for the answer.

5. Anonymous on September 11, 2008 3:49 PM

We faced the same error, thanks for posting the solution for us.

6. Anonymous on September 16, 2008 1:17 AM

very good. right to the point with all and enough necessary information.
thank you.

7. Anonymous on October 02, 2008 1:41 AM

Great! Saved a lot of time :)

8. Anonymous on December 01, 2008 1:37 AM

Thanks kamal, for posting this article.

9. Anonymous on February 03, 2009 1:55 AM

Thank you!!!

10. Anonymous on February 08, 2009 10:53 AM

Thanks a lot Kamal...earlier I had faced same problem and could not resolve it...

11. Balaji on March 24, 2009 7:37 PM

thank you for ur help

12. Balaji on March 24, 2009 7:38 PM

thank for you help

13. Anonymous on April 18, 2009 3:44 PM

great!!! n thanks a lot. my problem got solved. :)

14. ashok on May 22, 2009 12:54 PM

Nice analysis,Thanks a lot.

15. Anonymous on July 31, 2009 11:48 PM

Thanks for the help!

16. Anonymous on September 05, 2009 12:41 AM

thanks Kamal... you ROCKS

17. Anonymous on October 19, 2009 7:28 PM

Thank you.. It worked...

Vinod

18. Anonymous on November 10, 2009 9:44 PM

Thanks,the solution really helped me fix my error quickly!

19. Anonymous on May 08, 2010 8:46 PM

I slightly modified the package notation. When I try to deploy I keep getting the following error. Help!!

E:\C Drive\ENV\Personal\WS\src>java org.apache.axis.client.AdminClient org\calc\
ws\generated\deploy.wsdd
Processing file org\calc\ws\generated\deploy.wsdd
Exception: AxisFault
faultCode: {http://schemas.xmlsoap.org/soap/envelope/}Server.generalException
faultSubcode:
faultString: java.lang.AbstractMethodError: javax.xml.parsers.SAXParser.getXMLR
eader()Lorg/xml/sax/XMLReader;; nested exception is:
java.lang.AbstractMethodError: javax.xml.parsers.SAXParser.getXMLReader(
)Lorg/xml/sax/XMLReader;
faultActor:
faultNode:
faultDetail:
{http://xml.apache.org/axis/}hostname:TSILPDL02

20. Anonymous on May 29, 2010 12:41 AM
     Thank you very very much! :D

21. Dissertation Writing Help on October 13, 2010 8:09 PM

     This comment has been removed by a blog administrator.

22. Anonymous on December 16, 2010 11:01 AM
     thank you. that solved mine

23. Anonymous on December 22, 2010 1:01 PM
     Excellent Article I had the same problem and luckily I viewed the solution posted by you and it solved
     my problem within minutes.
     Thank You Very Much!!!!!!!!!

24. Bitchslap on May 06, 2011 9:28 PM
     Good tip, fixed my issue! Thanks for posting.

     For Tomcat 6.0 and later, you can actually just add the tools.jar to the TOMCAT_HOME/lib folder.
     The common/lib and server/lib folders went out after Tomcat 5.5.

25. Venkat on July 02, 2011 7:09 PM
     Thanks was helpful

26. Anonymous on November 05, 2011 1:10 PM
     thnx...worked for me

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