

Apache AXIS2 Integration

Logon: admin / axis2

Installing AXIS2

1. Install Java JDK (JDK7)

AXIS2 indicates to use a JDK, not a JRE

D:\java\java32\jdk7

(was....D:\java\java32\jre7 <- this might be incorrect, so using the jdk7)

2. Copy Tools.jar to JDK\bin

copy tools.jar to \jdk\bin\tools.jar

3. Extract/Install AXIS2

Download axis2-1.6.2-bin.zip

Unpack to D:\xampp\axis2

3. MySQL JDBC Connector to AXIS2\lib dir

To support database access(MySQL) the following MySQL connector is needed

D:\xampp\axis2\lib\mysql-connector-java-5.1.25-bin.jar

4. Environment Variables

Set JAVA_HOME=D:\Java\java32\jdk\

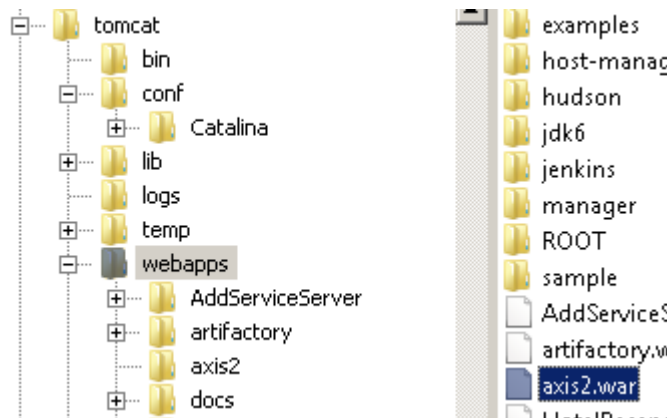
Set AXIS2_HOME=D:\xampp\axis2

Rampart Errors:

<http://wiki.apache.org/ws/FrontPage/Rampart/FAQ>

- may need to re-pack axis2.war
- Copy axis2-codgen-*.jpr to the axis2.war\lib*
- My Service with Rampart does not run with the Axis2 WAR distribution.
- The Axis2 war distribution does not contain axis2-codegen-*.jar which is needed by rampart runtime.
Unpack the axis2.war and copy the axis2-codegen-*.jar into the lib directory and re-pack axis2.war

To



Once the service is deployed, /axis2 should produce the axis2 homepage



Welcome!

Welcome to the new generation of Axis. If you can see this page you have successfully deployed the Axis2! properly working, we encourage you to click on the validate link.

- [Services](#)
View the list of all the available services deployed in this server.
- [Validate](#)
Check the system to see whether all the required libraries are in place and view the system int
- [Administration](#)
Console for administering this Axis2 installation.



[Back Home](#) | [Refresh](#)

Welcome :

Welcome to the Axis2 administration console. From inside the Axis2 administration console you can :

Check on the health of your Axis2 deployment.

Change any parameters at run time.

Upload new services into Axis2 [Service hot-deployment].

Login	
Username:	<input type="text"/>
Password:	<input type="password"/>
<input type="button" value="Clear"/>	<input type="button" value="Login"/>

Warning: Please note that configuration changes done through the administration console will be lost when the server is restarted.



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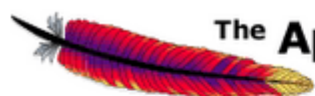


[Back Home](#) | [Refresh](#)

Login

Username:

Password:



The **Apache Software Foundation**
<http://www.apache.org/>



Tools

[Upload Service](#)

System Components

[Available Services](#)

[Available Service Groups](#)

[Available Modules](#)

[Globally Engaged Modules](#)

[Available Phases](#)

Welcome to Axis2 Web Admin Module !!

You are now logged into the Axis2 administration console from inside the console you will be able to

- to check on the health of your Axis2 deployment.
- to change any parameters at run time.
- to upload new services into Axis2 [Service hot-deployment].

Tools

[Upload Service](#)

System Components

[Available Services](#)

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[Globally Engaged Modules](#)

[Available Phases](#)

Execution Chains

[Global Chains](#)

[Operation Specific Chains](#)

Engage Module

[For all Services](#)

[For a Service Group](#)

[For a Service](#)

[For an Operation](#)

Services

[Deactivate Service](#)

[Activate Service](#)

[Edit Parameters](#)

Contexts

[View Hierarchy](#)

Installing Rampart module in Axis2

Steps to install

1. If you haven't installed Axis2, then download and extract the standard binary distribution. Make sure you have set the AXIS2_HOME environment variable
2. Run ant from the "samples" directory to copy the required libraries and modules to relevant directories in AXIS2_HOME.

Engaging Rampart

When securing a SOAP message, the sender must know the security actions to be performed on the message and the receiver must know enough details to process and validate the security of the message. Therefore when using Rampart with Axis2, it must be engaged at both ends.

Observe how module has been engaged in server side by opening samples/policy/sample01/services.xml. The following line has engaged the module.

Engaging Rampart at client side is done programmatically as follows.

```
ServiceClient client = new ServiceClient(ctx, null);
client.engageModule("rampart");
```

Understanding policy

WS-Security Policy can be used to indicate what security actions that needs be performed on SOAP messages and and what actions should be validated. The file 'samples/policy/sample01/policy.xml' configures Rampart to add Username Token with Timestamp to this message. The element <RampartConfig> in policy.xml defines Rampart specific configurations.

Policy at serverside is included in samples/policy/sample01/services.xml file. This configures Rampart module at serverside to validate the message for Username Token an Timestamp.

More details on RampartConfig can be found [here](#).

Viewing the Message on wire

It is interesting to view the secured SOAP message on the wire using TCP monitor. Change the "client.port" property in samples/policy/build.xml file to the listening port of TCP monitor. This will send all the messages through TCP monitor when you execute the ant script. Observe the <wsse:Security> header in the SOAP message.