

Exercise 2

Using SOAPUI to interact with a sample SOAP Service

Prior Knowledge

XML

Objectives

Deploy a ready built service into Tomcat

Call the service using SOAP message

See sample SOAP messages

Software Requirements

These are already installed on the VM.

- Java Development Kit 7
- Tomcat 7.057 or later
- SOAPUI 5.0.0 or later



Step 1. Deploy the service into Tomcat

The sample service is already coded and available as a WAR file. It was written with Apache CXF and is available in the Downloads directory

~/Downloads/sample-service-1.0.war

Or alternatively here:

<https://github.com/pzfreo/ox-soa/blob/master/lab-exercises/code/sample-service-1.0.war?raw=true>

Simply copy the WAR file into <tomcat>/webapps/ directory

From the terminal window:

```
cp ~/Downloads/sample-service-1.0.war ~/servers/tomcat/webapps
```

Now start Tomcat:

Rather than use the “daemon” server startup we will use the model that keeps the server running in the open window.

```
cd ~/servers/tomcat  
bin/catalina.sh run
```

For reference here is the Server Startup approach.

```
cd <tomcat>
```

```
bin/startup.sh [Linux/Mac]
```

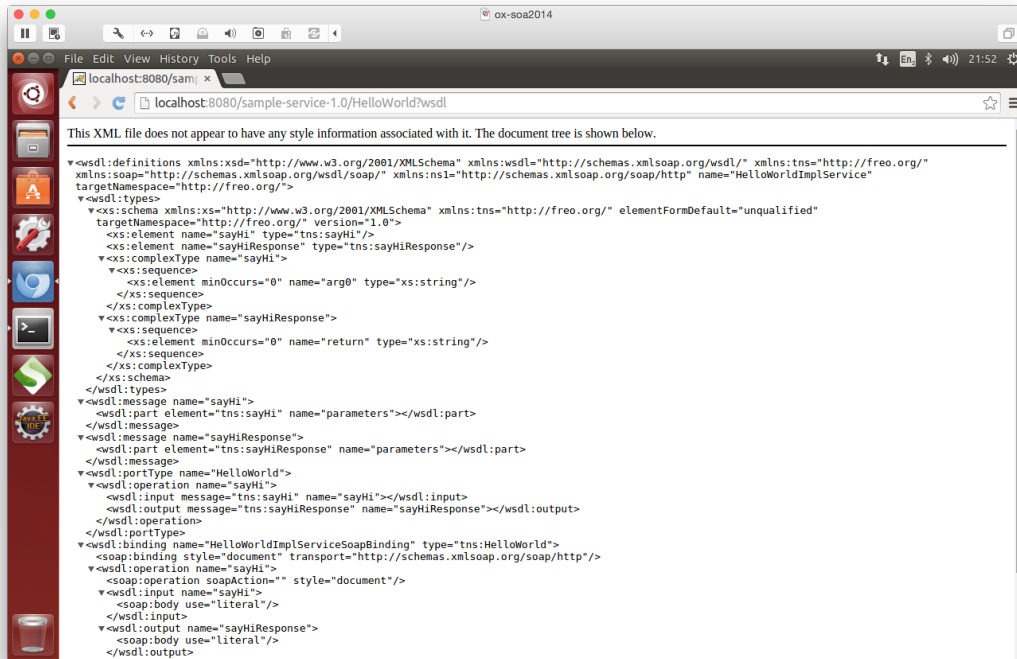
```
bin\startup.bat [Windows]
```

Check to see if its running:

Browse <http://localhost:8080/sample-service-1.0/>

You should see a SOAP Web Service listed with a link to the WSDL. Click on this link.



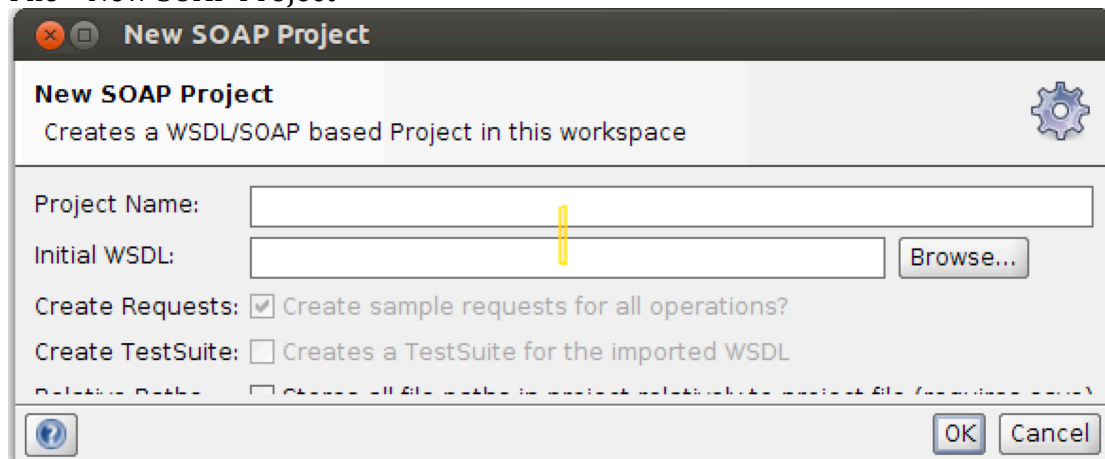


Copy the WSDL Link into the Clipboard.

Now start up SOAPUI from the launcher:



File->New SOAP Project

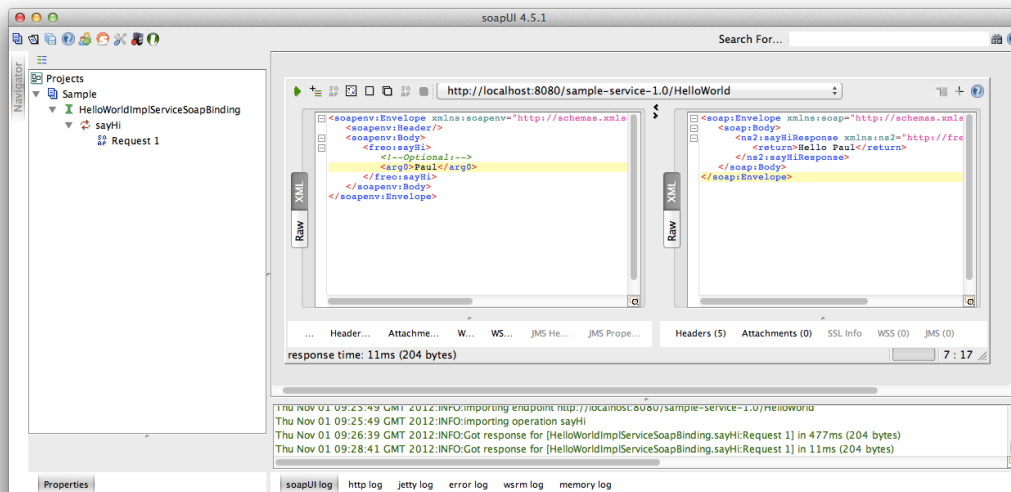


Type in a name for the project (e.g. Sample)
Paste the WSDL URI into the Initial WSDL field
Hit OK

Now open up the Request editor for one of the operations. You can do this by navigating the service tree in the left window until you see a Request object and click on that.

In the XML Payload, change any '?' fields into something useful. Now hit the little green arrow (Run) button.

You should see a response from the service.



Use some of the SOAP UI capabilities to inspect the HTTP Headers, etc.
Try some other options and see what happens.

