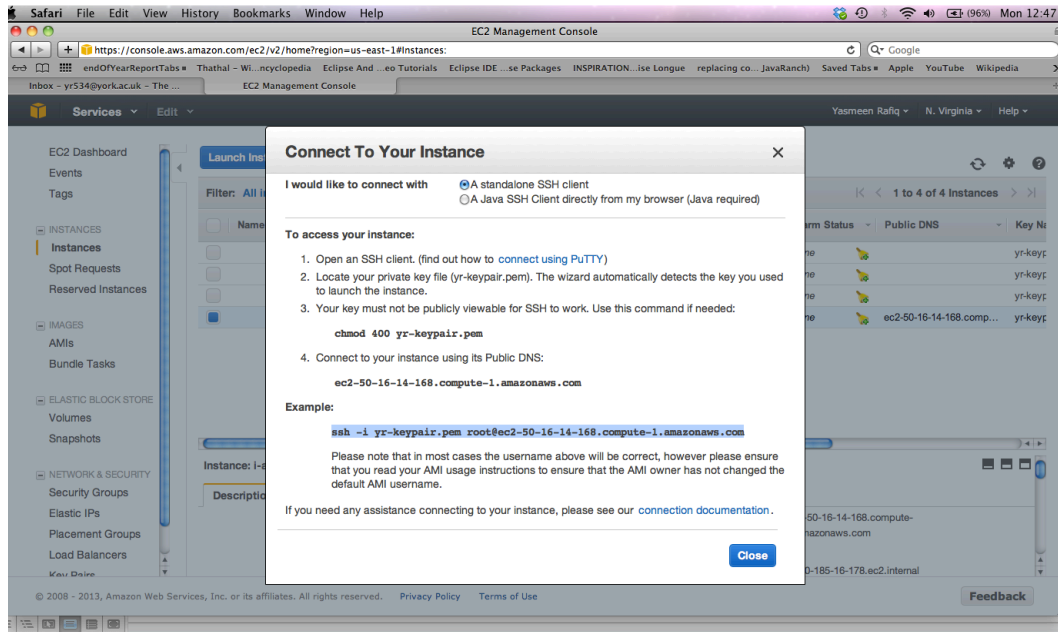


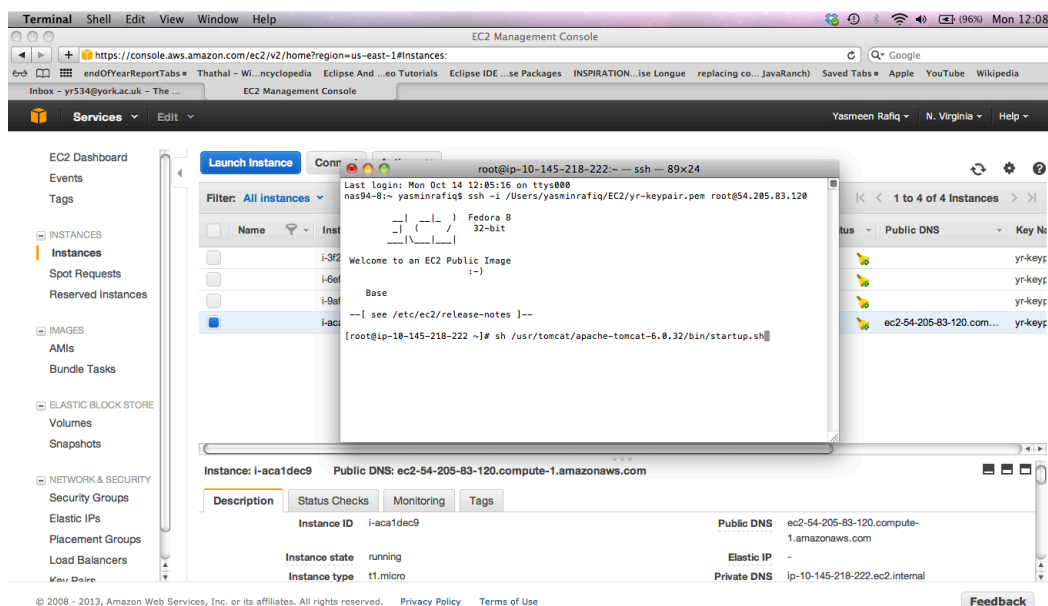
## Tutorial: How to use the WB-IPGen tool

1. To connect to the EC2 instance created from the **AMI Name: WB-IPGen**, please click the 'Connect' button on the Amazon EC2 Management Console and note the information – See the snap shot below:



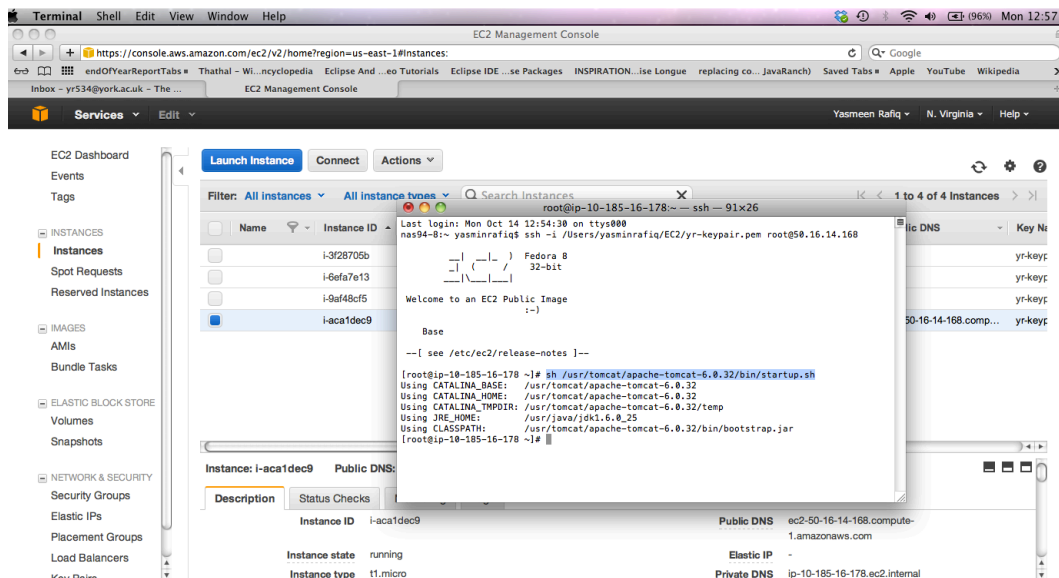
1. Open a terminal window and execute the following SSH command:

```
ssh -i /full-path-to/yrkeypair.pem root@ec2-50-16-14-168.compute-1.amazonaws.com
```



2. Start the tomcat server by executing the following command:

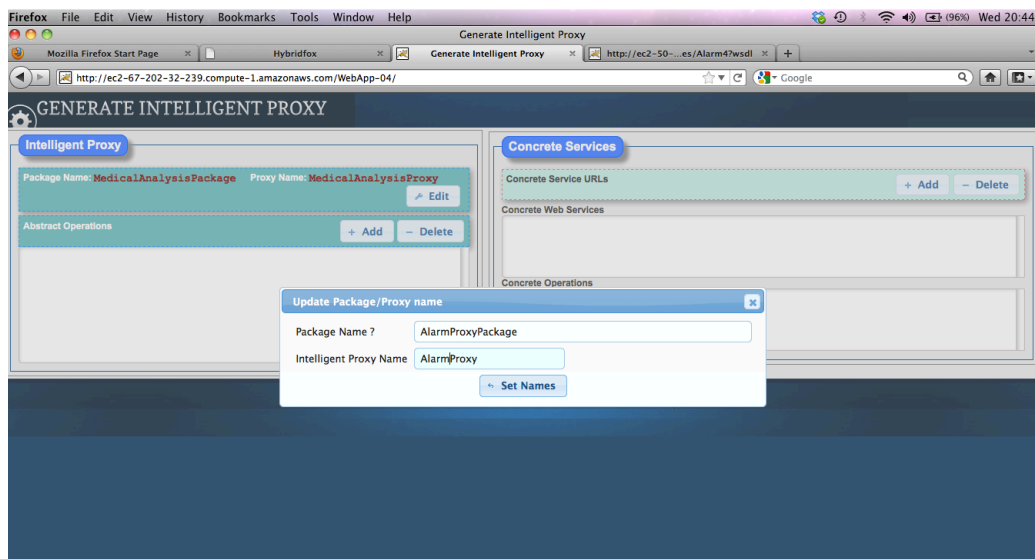
```
sh /usr/tomcat/apache-tomcat-6.0.32/bin/startup.sh
```



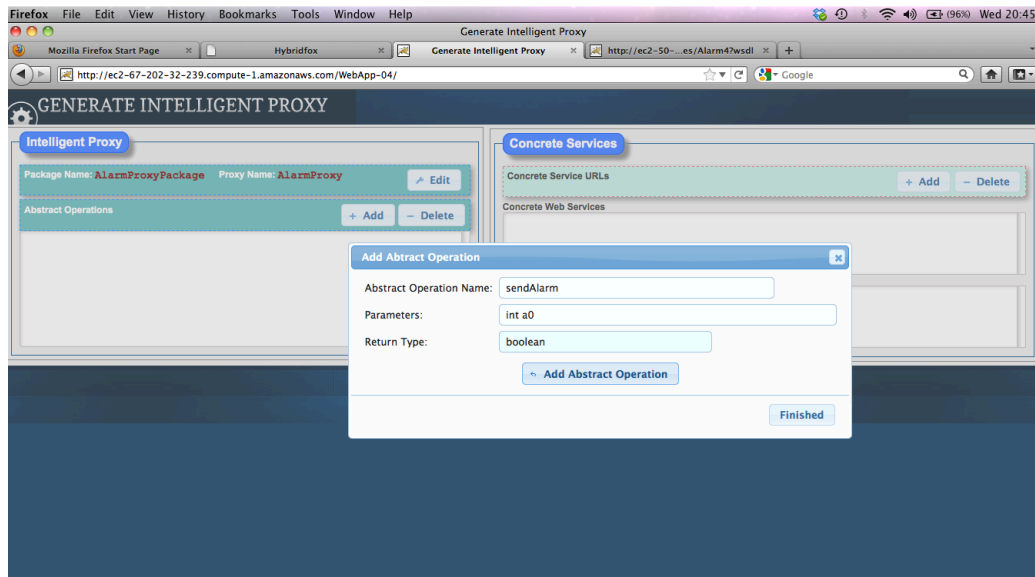
3. To open the WB-IPGen tool in your browser – point the browser to the following URL:

<http://Your-EC2-Public-DNS-Name/WebApp-04/>

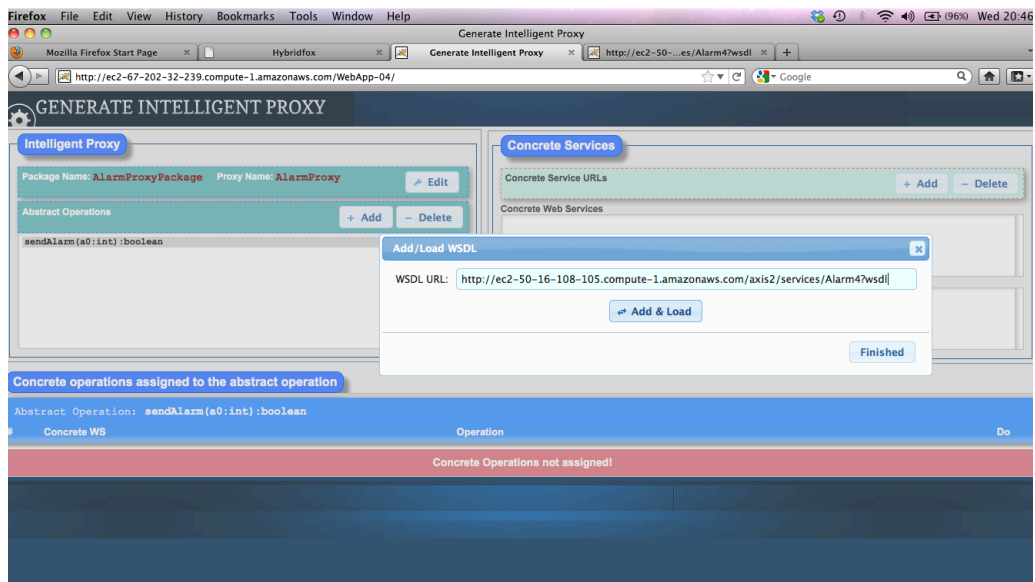
To update the package name and the proxy name click the 'Edit' button and enter the details in the dialogue window and then click 'Set Name'



- To add SBS operation click 'Add' button and enter the details in the dialogue box and then click 'Add Abstract Operation'.

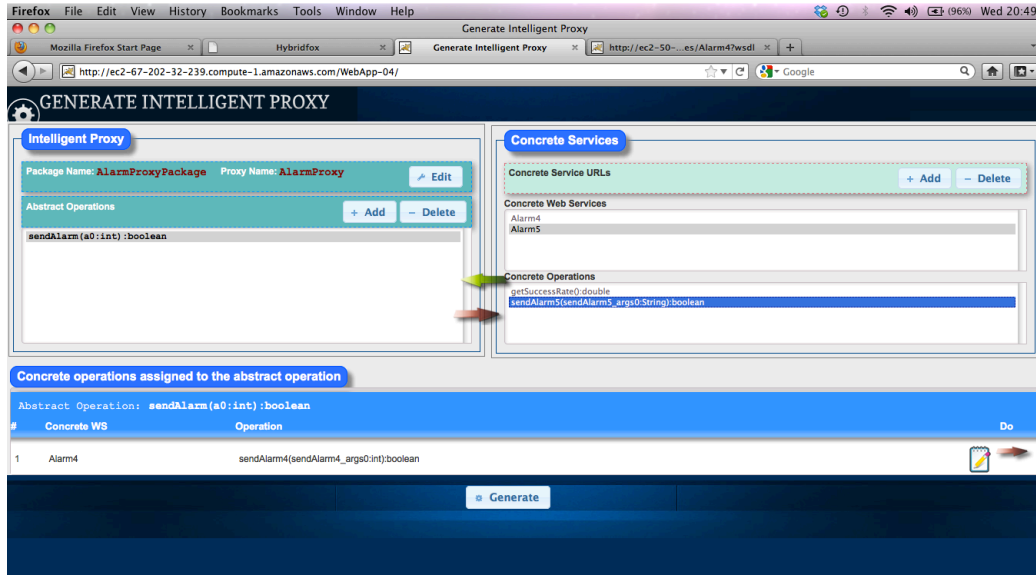


- To add the WSDL URLs of the concrete services, please click the 'Add' button. In the dialogue box enter the URL of the first concrete service and repeat for the others and then click the 'Finished' button.



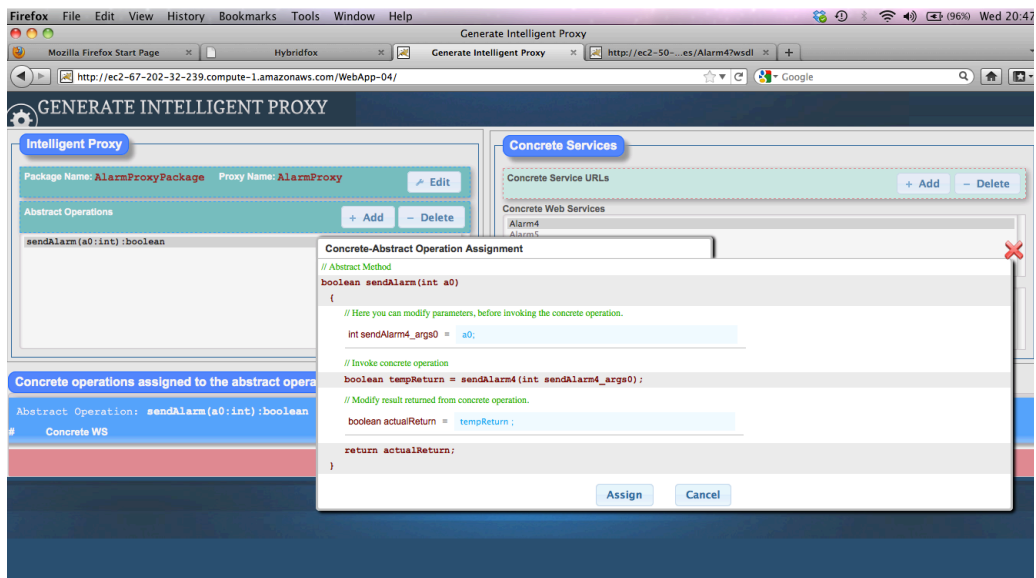
6. To map the concrete operation to the SBS operation:

a) Select the SBS operation, the concrete web service, the concrete operation and click the 'green' arrow.

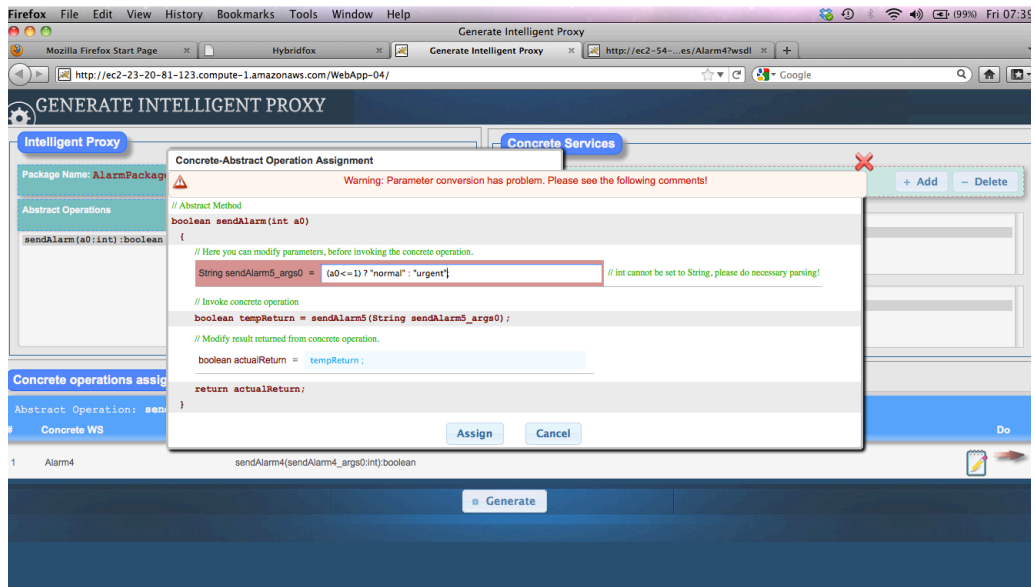


Then either follow b) if parameter/return-type conversion is not required or c) when parameter/return-type conversion is required.

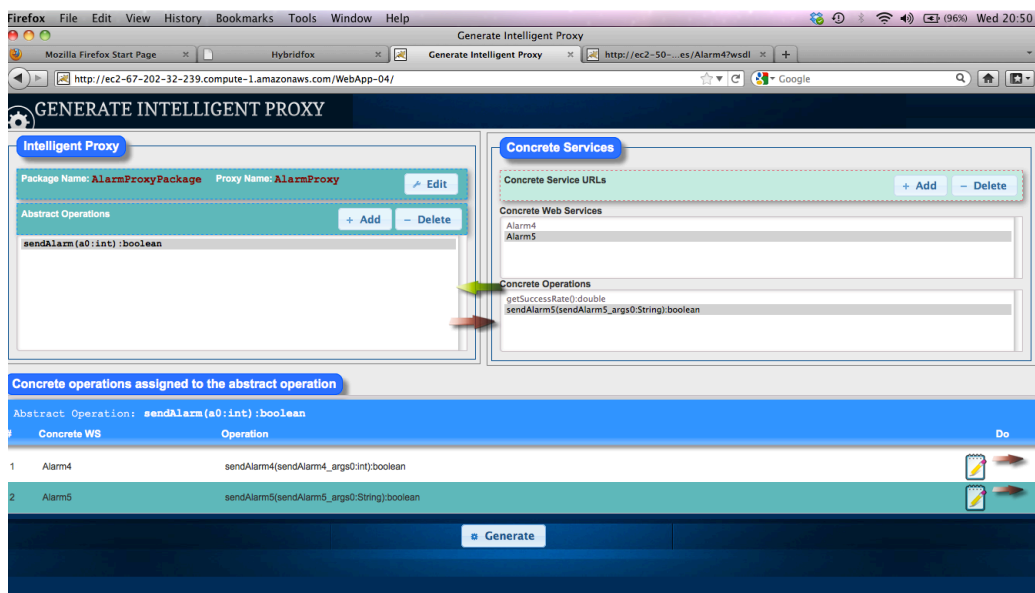
b) Click the 'Assign' button.



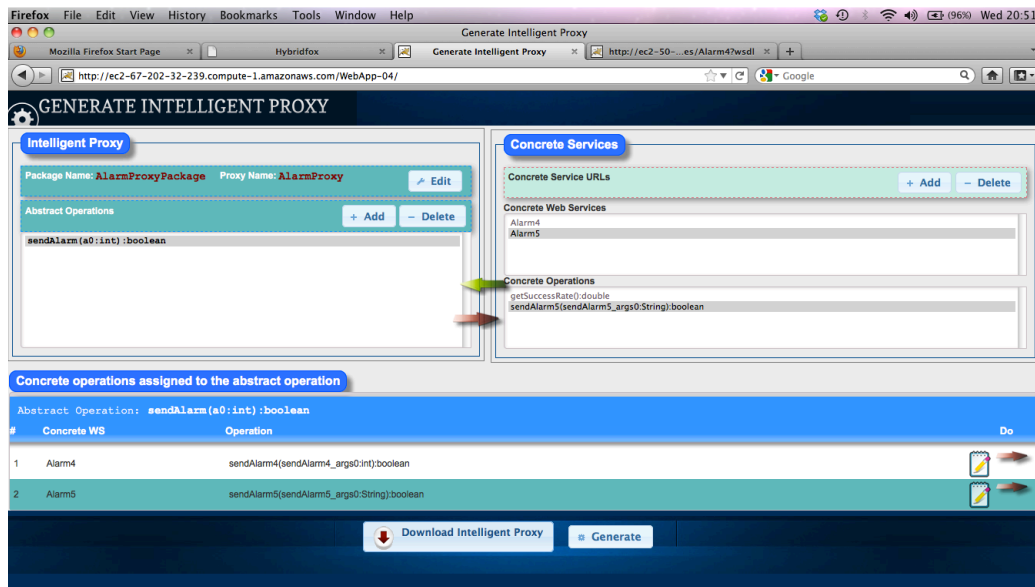
- c) Add the conversion code, e.g., convert a `String` to an `int` and then click the 'Assign' button.



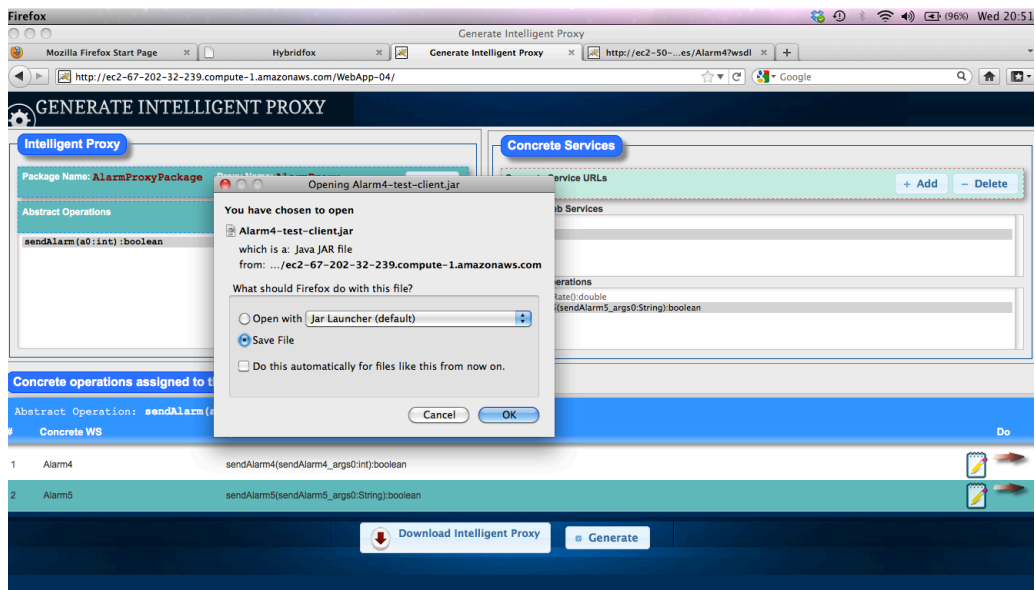
7. To generate the intelligent proxy, please click the 'Generate' button



8. To download the proxy, click the 'Download Intelligent Proxy' button.



9. Save the JAR file.



To deploy the intelligent proxy JAR file into the client application, the following third-party libraries are required:

- Axis2, the tool was tested with version 1.5.4 of Axis2 and is available from:  
<http://axis.apache.org/axis2/java/core/download.cgi>
- log4j, the tool was tested with version 1.2.15 of log4j and is available from  
<http://logging.apache.org/log4j/1.2/download.html>

- IPSupport.jar – available from the project web site.
- multiObjectivePrism.jar – PRISM library available from the project web site.
- ipsolver.jar - <http://code.google.com/p/lpsolver/downloads>

### **Problem connecting to EC2 Instance**

If you experience problem connecting to the EC2 instance using the instructions above, then you may want to try using Hybridfox. Hybridfox is a Firefox add-on that attempts to get the best of both worlds of popular Cloud Computing environments, Amazon EC2 (public) and Eucalyptus (private). The idea is to use one Hybridfox tool, to switch seamlessly between Amazon and Eucalyptus accounts in order to manage your Cloud "Computing" environment.

- Hybridfox available from <http://code.google.com/p/hybridfox/>
- Hybridfox manual is available from the project web site.