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# SOA Software Integration

Integrating JBossESB with the SOA Software Service Manager



## JBoss ESB Development Team with Community Contributions

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### Abstract

Instructions on how to use the SOA Software Service Manager as the UDDI Registry for JBossESB.

1. Configuration .....	2
1.1. jbossesb-properties.xml .....	2
1.2. Add Axis and commons-discovery JARs .....	3
1.3. SOA Workbench Configurations .....	3
1.4. Workflow Configurations .....	5
1.5. Running .....	6
1.6. Managing Your Services .....	6
1.7. Search .....	7
A. GNU General Public License .....	8
A.1. Preamble .....	8
A.2. TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION .....	9

A.2.1. Section 0 .....	9
A.2.2. Section 1 .....	9
A.2.3. Section 2 .....	10
A.2.4. Section 3 .....	10
A.2.5. Section 4 .....	11
A.2.6. Section 5 .....	11
A.2.7. Section 6 .....	11
A.2.8. Section 7 .....	12
A.2.9. Section 8 .....	12
A.2.10. Section 9 .....	12
A.2.11. Section 10 .....	13
A.2.12. NO WARRANTY Section 11 .....	13
A.2.13. Section 12 .....	13
A.3. How to Apply These Terms to Your New Programs .....	13
B. Revision History .....	14

## 1. Configuration

In order to communicate with the SOA Software registry, you will have to configure JBoss ESB to communicate with the SOA Software registry. In order to do this, the first thing you need to do is to point the JBoss ESB towards the SOA Software registry.

This text assumes you have a running JBoss Application/ESB Server, version 4.6.GA.

### 1.1. jbossesb-properties.xml

1. Edit server/<profile>/deploy/jbossesb.sar/jbossesb-properties.xml and change the following lines – if you are deploying to JBoss AS 5.1.0 or higher, this file is located in server/<profile>/deployers/esb.deployer/jbossesb-properties.xml:

```
<property name="org.jboss.soa.esb.registry.queryManagerURI"
  value="org.apache.juddi.registry.local.InquiryService#inquire"/>
<property name="org.jboss.soa.esb.registry.lifeCycleManagerURI"
  value="org.apache.juddi.registry.local.PublishService#publish"/>
```

To the following (and make sure to edit the queryManagerURI and the lifeCycleManagerURI to match the URLs from your installation of SOA Workbench):

```
<property name="org.jboss.soa.esb.registry.uddi.maxRows" value="100"/>
<property name="org.jboss.soa.esb.registry.queryManagerURI"
  value="http://stacks2:9901/uddi/inquiry_v2"/>
<property name="org.jboss.soa.esb.registry.lifeCycleManagerURI"
```

```
value="http://stacks2:9901/uddi/publish_v2"/>
```

2. Change jbossesb-properties.xml:

```
<property name="org.jboss.soa.esb.scout.proxy.transportClass"  
  value="org.apache.ws.scout.transport.LocalTransport"/>
```

to:

```
<property name="org.jboss.soa.esb.scout.proxy.transportClass"  
  value="org.apache.ws.scout.transport.AxisTransport"/>
```

3. Also, within jbossesb-properties.xml, change:

```
<property name="org.jboss.soa.esb.registry.user" value="administrator"/>  
<property name="org.jboss.soa.esb.registry.password" value="password"/>
```

to match the SOA Workbench user and password you'll be using.

## 1.2. Add Axis and commons-discovery JARs

Copy a recent version of Apache Axis and Apache Commons Discovery into server/<profile>/lib. The integration was tested using axis-1.4.jar and commons-discovery-0.2.jar. Download axis-bin-1\_4.tar.gz from the Apache Axis site (<http://ws.apache.org/axis/>) to find these JARs.

## 1.3. SOA Workbench Configurations

1. Configure the guest user in Workbench to the guest role. Click on the top level registry node in Workbench (in the Organization Tree) and click on the second-level "Security" tab (within the Workbench hierarchy). Click "Manage Role" for "Guest" under "Role Memberships:

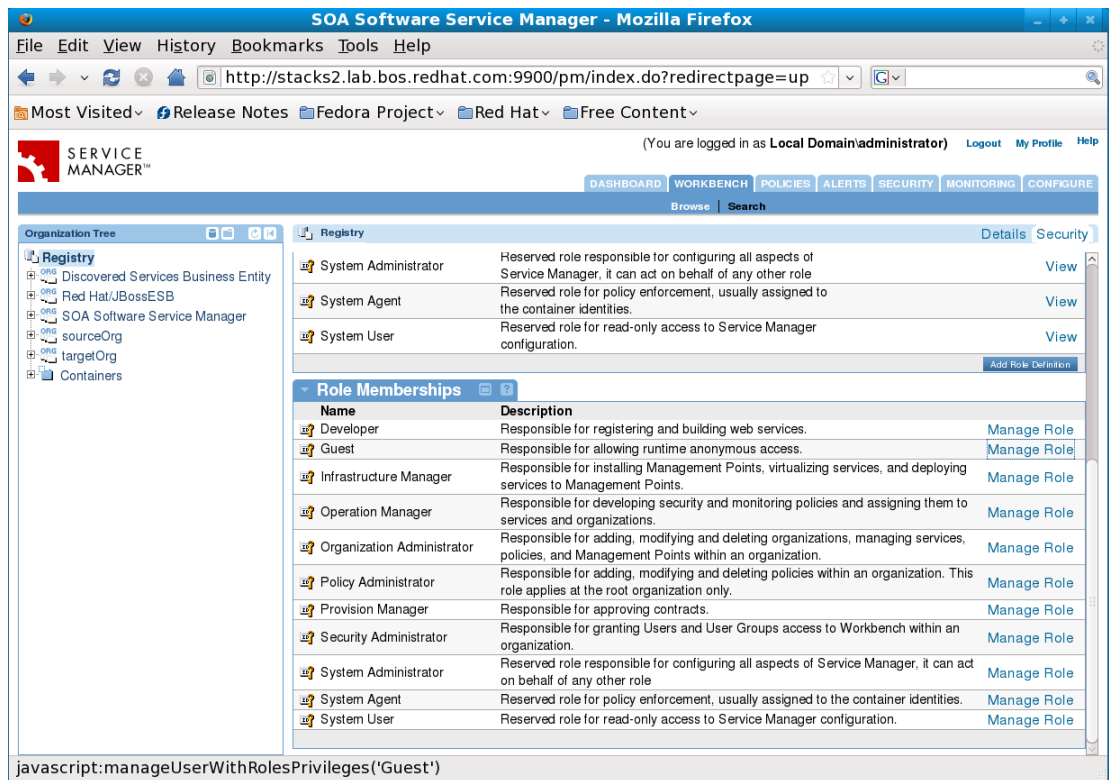


Figure 1. Configuring the Workbench - One

2. Search for the user "guest", and add them to the Guest Role by selecting the checkbox next to "guest" clicking "Apply" :

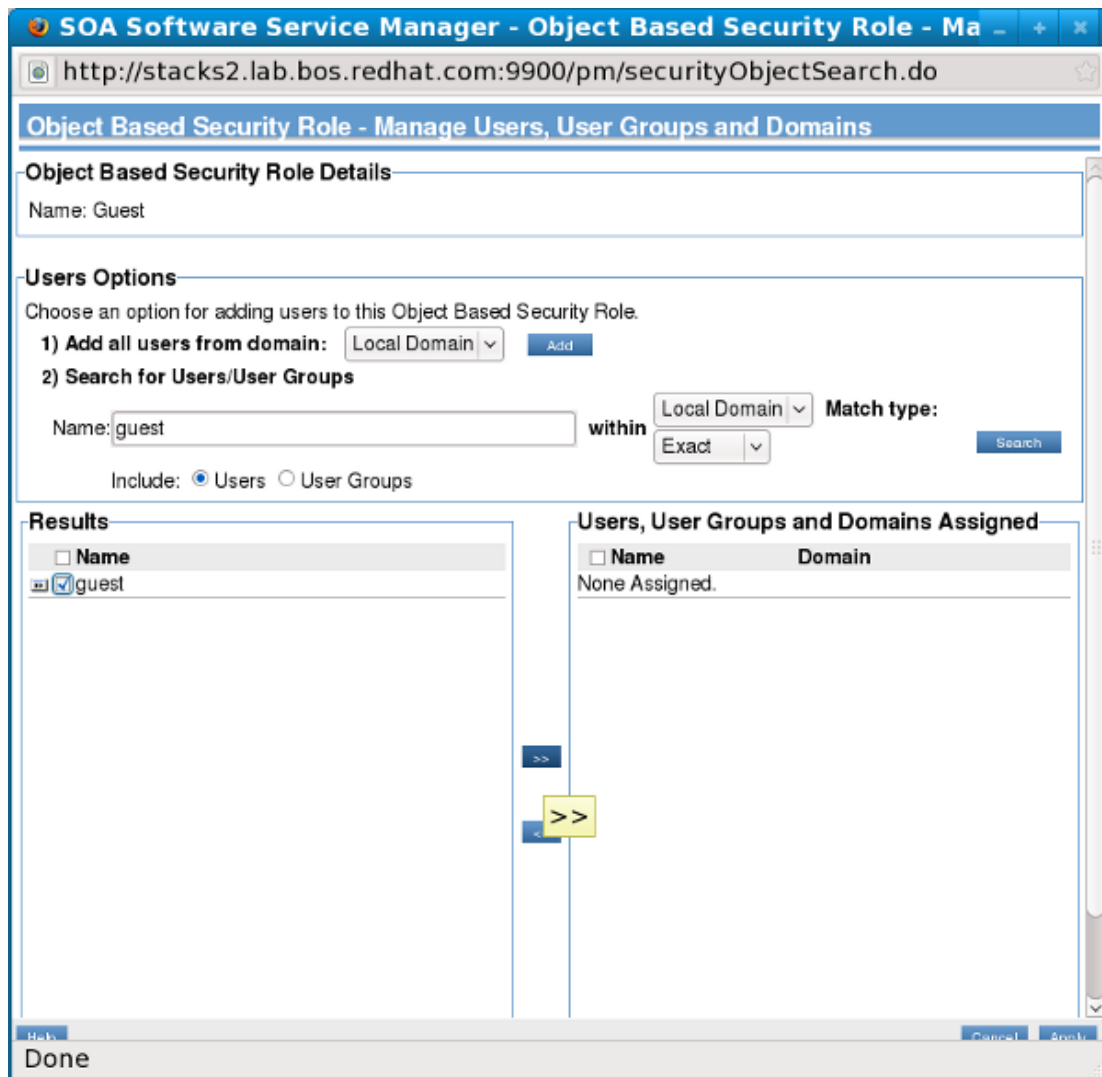


Figure 2. Configuring the Workbench - Two

## 1.4. Workflow Configurations

Change the Workflow so that ESB services are published upon creation. Click on the "Configure" tab and then select "Workflow". View the Workflow Definition, save it to your local disk, and then change the function type line under @create to `<function type="publish" />` and the step attribute to "100". After saving, Update the Workflow to the local copy you have saved.

Before:

```
<action id="1" name="@create">
  <results>
    <unconditional-result old-status="Created" status="Draft" step="100" owner="{caller}"/>
  </results>
</post-functions>
```

```
<function type="setLifecycleStage">
  <arg name="stage">Design</arg>
</function>
</post-functions>
</action>
```

After:

```
<action id="1" name="@create">
  <results>
    <unconditional-result old-status="Created" status="Draft" step="100" owner="${caller}"/>
  </results>
  <post-functions>
    <function type="publish" />
  </post-functions>
</action>
```

## 1.5. Running

- Start JBossESB:

1. `cd bin`

2. `run.bat` (if on Windows) or `run.sh` (on Unix)

- Read `product/docs/GettingStarted.pdf` and follow the directions for running the Helloworld QS.

## 1.6. Managing Your Services

You can manage your services through Workbench – as you notice in the left frame of the screenshot below, services register with the SOA Software Workbench.

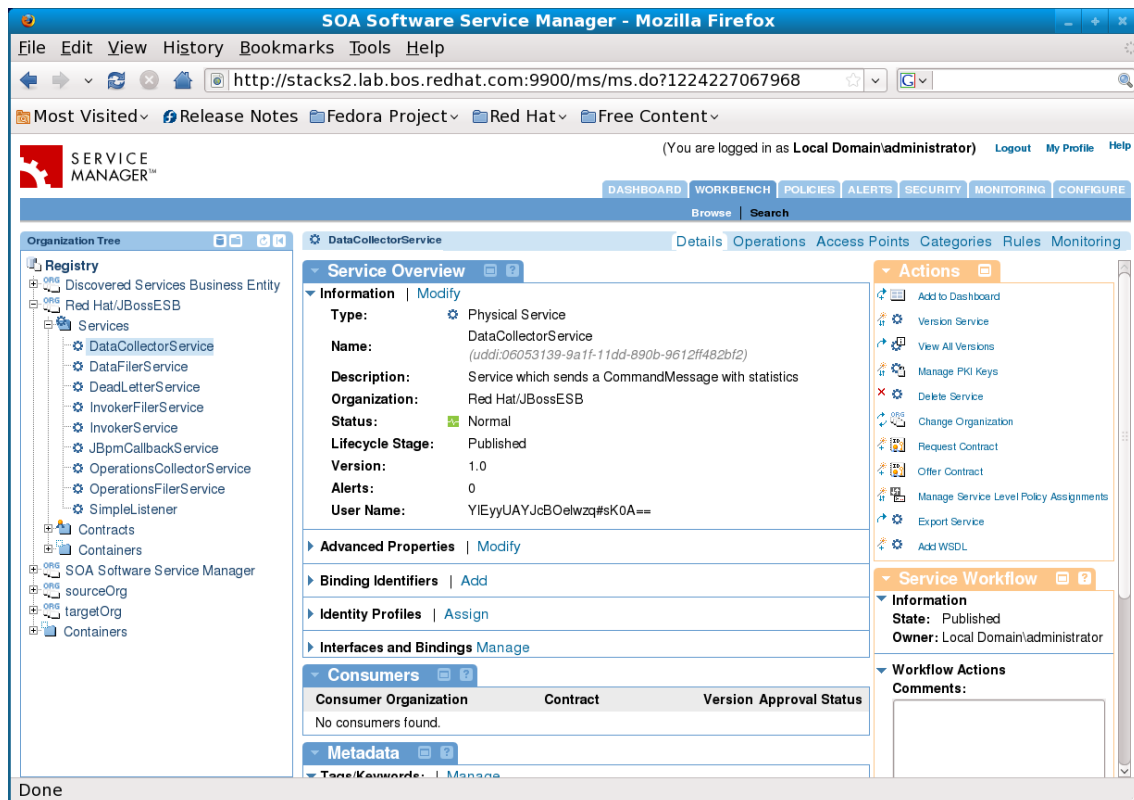


Figure 3. Managing Services

## 1.7. Search

The "Search" option within Workbench allows the user to manage their services and shows the state, version, description, and number of alerts produced from those services.

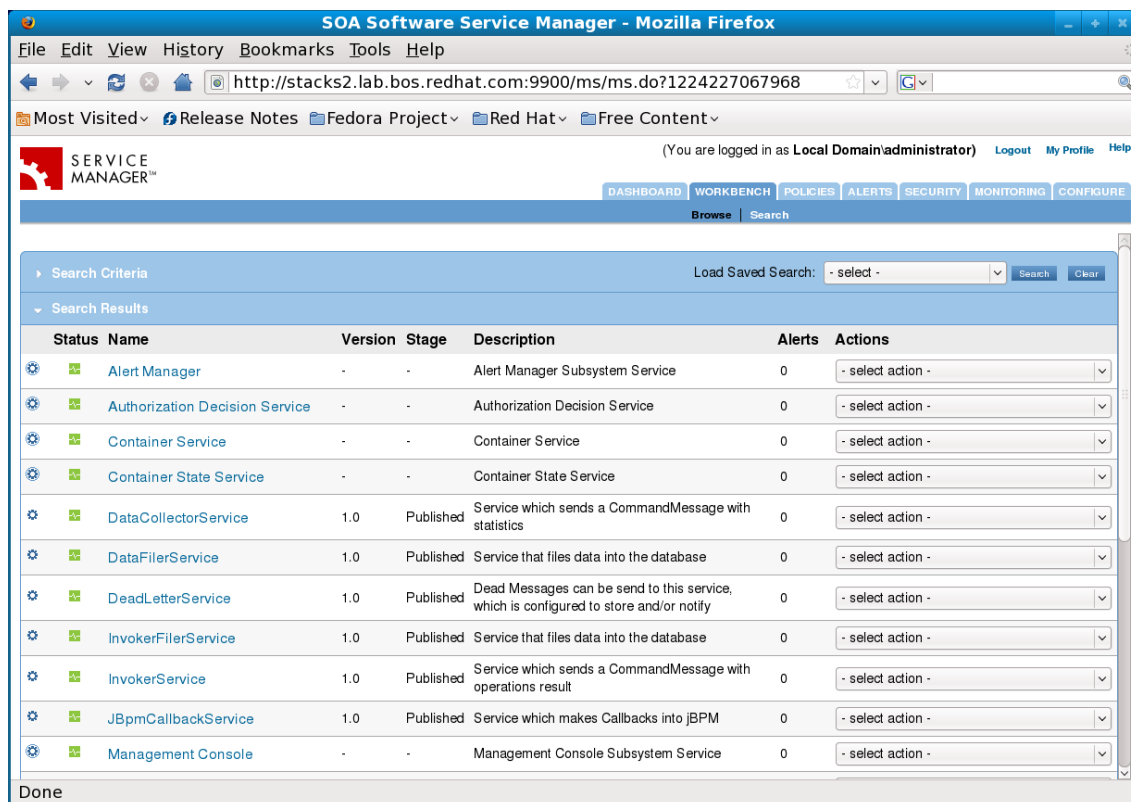


Figure 4. Search

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## B. Revision History

### Revision History

Revision 1

Fri Jul 16 2010

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Initial conversion from OpenOffice ODT file.

