

You may need to wait for a while as Fuse starts the bundles it needs to run fully. Running the list command should show around 200+ bundles all Active.

```
JBossFuse:karaf@root> list
```

Install the smxb-features features file. This gets pulled out from your local Maven repository, and defines which bundles you mean to install for the bootstrap project.

```
JBossFuse:karaf@root> features:addurl mvn:com.fusesource.examples/smxb-features/1.0-SNAPSHOT/xml/features
```

You can now check that the features defined in that file are available for installation:

NP: It's often a good idea to prefix all of your features and bundles with a known string, such as smxb in this case, so you can easily find them via the grep command in the various listings.

Install all of the necessary OSGi bundles by installing the smxb-ping-pong feature

Every 15 seconds, the 'smxb-pinger' bundle will send a message. The log should now contain output from your bundles

```
| JBossFuse:karaf@root> log:display -n 5 | 2013-03-21 14:24:43,139 | INFO | sConsumer[pings] | pong | ? | 2013-03-21 14:24:43,140 | INFO | lyManager[pings] | toActiveMQ | ? | 2013-03-21 14:24:58,136 | INFO | #0 - timer://foo | pingFromTimer | ? | 2013-03-21 14:24:58,139 | INFO | sConsumer[pings] | pong | ? | 2013-03-21 14:24:58,169 | INFO | lyManager[pings] | toActiveMQ | ? | |
```

Check that the web service is running by hitting the following from your web browser:

```
http://localhost:9090/ping?msg=Ping
```

Congratulations. You have just deployed and run a bootstrapped integration project!

Next steps

Working with bundles

 $\textbf{Change the Camel route defined in} \ [\texttt{smxb-pinger/target/classes/OSGI-INF/blueprint/blueprint.xml}]. \ \textbf{Run} \\$

```
In ServiceMix, update the smxb-pinger bundle

JBossFuse:karaf@root> list | grep smxb-pinger
[ 236] [Active ] [Created ] [ ] [ 60] smxb-pinger (1.0.0.SNAPSHOT)

JBossFuse:karaf@root> update 236
```

Your changes should now be visible.

Configuration

The [smxb-pinger] and [smxb-ponger] projects make use of OSGi Blueprints config services. From the same [blueprints.xml]:

You can dynamically change the default configuration by creating a properties file in the \$JBOSS_FUSE_HOME/etc directory called [persistent-id].cfg], so in this case com.fusesource.examples.pinger.cfg]. This is a standard properties file, within which you can override any of the properties used in your blueprints.xml.

Adding the following line to the file and saving it will stop the bundles that listen on that persistent-id and start them again.

```
broker.url=failover:(tcp://127.0.0.1:61616,tcp://127.0.0.1:61617)
```

This assumes that the <code>cm:property-placheholders</code> are configured with <code>update-strategy="reload"</code>, if not the bundles need to be stopped and started manually.

The log should show the affected Camel routes stopping and starting:

```
14:31:58,764 | INFO | Thread-55
                                    | BlueprintCamelContext
                                                                     | 130 - org.apache.camel.camel-core - 2.10.0.r
14:31:58,765 | INFO | Thread-55
                                    | DefaultShutdownStrategy
                                                                     | 130 - org.apache.camel.camel-core - 2.10.0.r
14:31:58,767 | INFO | 6 - ShutdownTask | DefaultShutdownStrategy
                                                                      | 130 - org.apache.camel.camel-core - 2.10.0.r
14:31:58,767 | INFO | 6 - ShutdownTask | DefaultShutdownStrategy
                                                                      | 130 - org.apache.camel.camel-core - 2.10.0.r
14:31:58,845 | INFO | 6 - ShutdownTask | DefaultShutdownStrategy
                                                                       | 130 - org.apache.camel.camel-core - 2.10.0.r
14:31:58,845 | INFO | 6 - ShutdownTask | DefaultShutdownStrategy
                                                                       | 130 - org.apache.camel.camel-core - 2.10.0.r
14:31:58,845 | INFO | Thread-55
                                    | DefaultShutdownStrategy
                                                                       | 130 - org.apache.camel.camel-core - 2.10.0.r
14:31:59,181 | INFO | Thread-55
                                     | DefaultTypeConverter
                                                                       | 130 - org.apache.camel.camel-core - 2.10.0.r
                                | BlueprintCamelContext
14:31:59,183 | INFO | Thread-55
                                                                      | 130 - org.apache.camel.camel-core - 2.10.0.r
14:31:59,205 | INFO | NAPSHOT-thread-2 | ManagementStrategyFactory
                                                                     | 130 - org.apache.camel.camel-core - 2.10.0.r
14:31:59,212 | INFO | NAPSHOT-thread-2 | BlueprintCamelContext
                                                                      | 130 - org.apache.camel.camel-core - 2.10.0.r
```

Using this mechanism you can externalise any environment-specific config. If you like, define some properties to echo a different pong message and have a go at modifying them externally.

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