

OSGi Infrastructure Configuration

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The GlassFish application server versions 3.x and later uses OSGi architecture. By default, OSGi containers follow a specific model for bootstrap class delegation. Classes that are not specified in the container's CLASSPATH are not delegated to the bootstrap classloader; therefore you must configure the OSGi containers for the Java Agentclasses.

For more information, see [GlassFish OSGi Configuration per Domain](#).

To ensure that the OSGi container identifies the Java Agent, specify the following package prefix:

```
org.osgi.framework.bootdelegation=com.singularity.*
```

This prefix follows the regular boot delegation model so that the Java Agent classes are visible.

If you already have existing boot delegations, add "com.singularity.*" to the existing path separated by a comma. For example:

```
org.osgi.framework.bootdelegation=com.sun.btrace., com.singularity.
```

Configure Eclipse Equinox

If running Eclipse Equinox under Glassfish:

1. Open the config.ini file located at <glassfish install directory>/glassfish/osgi/equinox/configuration.
2. Add the following package prefix to the config.ini file:

```
org.osgi.framework.bootdelegation=com.singularity.*
```

If running Eclipse Equinox under the WebSphere Application Server Liberty profile:

1. Open the bootstrap.properties file in the JVM directory <WLP_home>/usr/servers/<server_name> for editing.
2. Add the following line:

```
org.osgi.framework.bootdelegation=com.singularity.*
```

For more information see [Getting Started with Equinox](#).

Configure Apache Sling

1. Open the sling.properties file. The location of the sling.properties varies depending on the Java platform. In the Sun/Oracle implementation, the sling.properties file is located at <java.home>/lib.
2. Add following package prefix to the sling.properties file:

```
org.osgi.framework.bootdelegation=com.singularity.*
```

Configure JIRA or Confluence

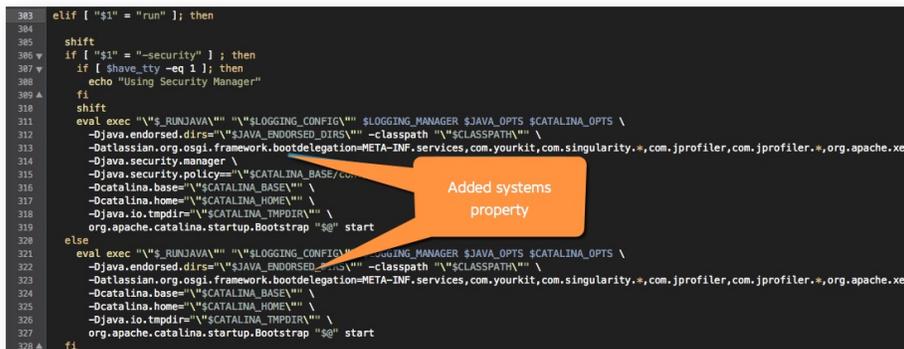
For JIRA 5.1.8 and newer and Confluence 5.3 and newer:

1. Open the startup script (i.e., catalina.sh) for editing.
2. Look for the start command block (look for "elif ["\$1" = "start"] ; then")
3. Add the following Java system property alongside the existing properties in both else blocks:

```
-Datlassian.org.osgi.framework.bootdelegation=META-INF.services,com.yourkit,com.singularity.*,  
*,com.jprofiler,com.jprofiler.*,org.apache.xerces,org.apache.xerces.*,org.apache.xalan,org.  
apache.xalan.*,sun.*,com.sun.jndi,com.icl.saxon,com.icl.saxon.*,javax.servlet,javax.servlet.  
*,com.sun.xml.bind.*
```

4. Add the property to the run command block as well to instrument the application started in run mode. For example:

```
303 elif [ "$1" = "run" ]; then  
304  
305     shift  
306     if [ "$1" = "security" ]; then  
307         if [ $have_tty -eq 1 ]; then  
308             echo "Using Security Manager"  
309         fi  
310     else  
311         shift  
312         eval exec "\${SUN_JAVA}"" "\${LOGGING_CONFIG}"" \${LOGGING_MANAGER} \${JAVA_OPTS} \${CATALINA_OPTS} \  
313             -Djava.endorsed.dirs="\${JAVA_ENDORSED_DIRS}"" -classpath "\${CLASSPATH}"" \  
314             -Datlassian.org.osgi.framework.bootdelegation=META-INF.services,com.yourkit,com.singularity.*,com.jprofiler,com.jprofiler.*,org.apache.xe  
315             -Djava.security.manager \  
316             -Djava.security.policy="\${CATALINA_BASE}/conf/catalina.policy" \  
317             -Dcatalina.base="\${CATALINA_BASE}"" \  
318             -Dcatalina.home="\${CATALINA_HOME}"" \  
319             -Djava.io.tmpdir="\${CATALINA_TMPDIR}"" \  
320             org.apache.catalina.startup.Bootstrap "$@" start  
321     else  
322         eval exec "\${SUN_JAVA}"" "\${LOGGING_CONFIG}"" \${LOGGING_MANAGER} \${JAVA_OPTS} \${CATALINA_OPTS} \  
323             -Djava.endorsed.dirs="\${JAVA_ENDORSED_DIRS}"" -classpath "\${CLASSPATH}"" \  
324             -Datlassian.org.osgi.framework.bootdelegation=META-INF.services,com.yourkit,com.singularity.*,com.jprofiler,com.jprofiler.*,org.apache.xe  
325             -Dcatalina.base="\${CATALINA_BASE}"" \  
326             -Dcatalina.home="\${CATALINA_HOME}"" \  
327             -Djava.io.tmpdir="\${CATALINA_TMPDIR}"" \  
328             org.apache.catalina.startup.Bootstrap "$@" start  
329     fi
```



5. Add the Java Agent location as a new Java option:

- For Linux, use `JAVA_OPTS=`
- For Windows, use `set JAVA_OPTS=%JAVA_OPTS%`

```
-javaagent:/root/AppServerAgent/javaagent.jar"
```

You can add the Java option in the file just before the comment line "Execute The Requested Command".
6. Restart the application.

Configure Other OSGi-based Containers

For other OSGi-based runtime containers, add the following package prefix to the appropriate OSGi configuration.

```
file.org.osgi.framework.bootdelegation=com.singularity.*
```