

Grouper Provisioning Plugin: Post Grouper Install Configuration

1. The grouperInstaller.jar installer may leave a Tomcat process running. Check for a Tomcat process running from the Grouper installation directory /opt/grouper and if found kill it:

```
ps auxx | grep tomcat
root      32425  3.5 27.6 1163092 280788 pts/3    Sl      18:17   0:34 /usr/lib/jvm/java-7-openjdk-amd64/bin
/java -XX:MaxPermSize=150m -Xmx640m -Dcatalina.home=/opt/grouper/apache-tomcat-6.0.35 -jar /opt/grouper
/apache-tomcat-6.0.35/bin/bootstrap.jar

kill 32425
```

2. Replace the log directory for Grouper core or API with a symlink to the directory that you created earlier:

```
cd /opt/grouper/grouper.apiBinary-2.2.2
rm -rf logs
ln -s /var/log/grouperApi logs
```

3. Fix the ownership of log files created during the installation process:

```
chown -R tomcat6:tomcat6 /var/log/grouperUi
chown -R tomcat6:tomcat6 /var/log/grouperWs
```

4. Delete the old and out of date JDBC jar files distributed with Grouper:

```
cd /opt/grouper/grouper.apiBinary-2.2.2/lib/jdbcSamples
rm ./*
```

5. Download the latest version of the appropriate JDBC connector jar file:
 - a. [Browse here for MariaDB.](#)
 - b. [Browse here for MySQL.](#)
 - c. [Browse here for PostgreSQL.](#)
6. Copy the JDBC connector jar file into the Grouper API library custom directory, eg:

```
cd /opt/grouper/grouper.apiBinary-2.2.2/lib/custom
cp /tmp/mariadb-java-client-1.3.6.jar .
```

7. Copy the JDBC connector jar file into the Grouper UI lib directory:

```
cd /opt/grouper/grouper.ui-2.2.2/dist/grouper/WEB-INF/lib
cp /tmp/mariadb-java-client-1.3.6.jar .
```

8. Copy the JDBC connector jar file into the Grouper WS lib directory:

```
cd /opt/grouper/grouper.ws-2.2.2/grouper-ws/build/dist/grouper-ws/WEB-INF/lib
cp /tmp/mariadb-java-client-1.3.6.jar .
```

9. There are **three (3) copies** of the file grouper.hibernate.properties that you must edit:

```
cd /opt/grouper
find . -name grouper.hibernate.properties
./grouper.ws-2.2.2/grouper-ws/build/dist/grouper-ws/WEB-INF/classes/grouper.hibernate.properties
./grouper.ui-2.2.2/dist/grouper/WEB-INF/classes/grouper.hibernate.properties
./grouper.apiBinary-2.2.2/conf/grouper.hibernate.properties
```

Edit one of the files shown above and set the JDBC connection properties appropriately, and then copy the edited version into place in the other two (2) locations (all 3 copies of the file should be identical):

a. For MariaDB:

```
hibernate.connection.driver_class = org.mariadb.jdbc.Driver
hibernate.dialect = org.hibernate.dialect.MySQL5Dialect
hibernate.connection.url = jdbc:mysql://localhost:3306/grouper?
autoReconnect=true&Charset=utf8&useUnicode=true&characterEncoding=utf8
hibernate.connection.username = grouper
hibernate.connection.password = some_password
```

b. For MySQL:

```
hibernate.connection.driver_class = com.mysql.jdbc.Driver
hibernate.dialect = org.hibernate.dialect.MySQL5Dialect
hibernate.connection.url = jdbc:mysql://localhost:3306/grouper?
autoReconnect=true&Charset=utf8&useUnicode=true&characterEncoding=utf8
hibernate.connection.username = grouper
hibernate.connection.password = some_password
```

c. For PostgreSQL:

```
hibernate.connection.driver_class = org.postgresql.Driver
hibernate.dialect = org.hibernate.dialect.PostgreSQLDialect
hibernate.connection.url = jdbc:postgresql://localhost:5432/grouper
hibernate.connection.username = grouper
hibernate.connection.password = some_password
```

10. Create the file /etc/tomcat6/Catalina/localhost/grouper.xml with the contents

```
<Context docBase="/opt/grouper/grouper.ui-2.2.2/dist/grouper" path="/grouper" reloadable="false"
mapperContextRootRedirectEnabled="true" mapperDirectoryRedirectEnabled="true"/>
```

11. Create the file /etc/tomcat6/Catalina/localhost/grouper-ws.xml with the contents

```
<Context docBase="/opt/grouper/grouper.ws-2.2.2/grouper-ws/build/dist/grouper-ws" path="/grouper-ws"
reloadable="false" mapperContextRootRedirectEnabled="true" mapperDirectoryRedirectEnabled="true"/>
```

12. Edit the file /opt/grouper/grouper.ui-2.2.2/dist/grouper/WEB-INF/web.xml as follows:

- Remove all <security-constraint> elements and their child elements.
- Remove all <login-config> elements and their child elements.
- Remove all <security-role> elements and their child elements.

13. Edit the file /opt/grouper/grouper.ws-2.2.2/grouper-ws/build/dist/grouper-ws/WEB-INF/web.xml and make the same changes as above.

Note that there is a <security-constraint> element that is already commented out as part of an optional ESB listener servlet. Be careful if you delete it because the closing element </security-constraint> is on a line that contains the "close comment" XML syntax "-->".

14. There are three (3) copies of the file grouper.properties that you must edit:

```
cd /opt/grouper
find . -name grouper.properties
./grouper.ws-2.2.2/grouper-ws/build/dist/grouper-ws/WEB-INF/classes/grouper.properties
./grouper.ui-2.2.2/dist/grouper/WEB-INF/classes/grouper.properties
./grouper.apiBinary-2.2.2/conf/grouper.properties
```

Edit one of the files and add

```
configuration.detect.utf8.file.problems = false
```

and then copy the edited version to the other two (2) locations (all 3 copies should be identical).

Additionally if you are using MariaDB add

```
db.log.driver.mismatch = false
```