Naming Convention Tool - Development Environment Setup Instructions

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DOCUMENT REVISION HISTORY

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1.0	Initial version	2014-01-07

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1.   JAVA ENVIRONMENT

1.1   JRE

Java 7 should be selected as default java. Check this with the following command in terminal:

```
sudo alternatives --config java
```

Java 7 should be selected as default. If it is not, please select it.

2.   CHECKOUT THE APPLICATION

To checkout the application using Git, please do the following in terminal:

```
git clone https://your_user_name@git.esss.dk/ad/NamingConventionTool
```

Please substitute "your_user_name" with your user account at DMSC put it in suitable directory (hereinafter referred as project_home).

3.   MYSQL DATABASE PREPARATION

3.1   Software requirements

MySQL server and MySQL Workbench should be installed on the machine. If they are not, please install them.
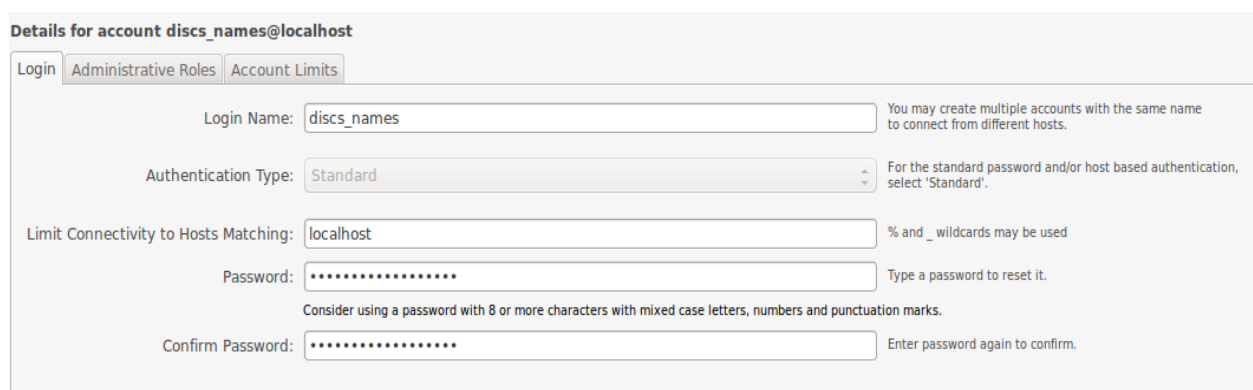
3.2   Create database user and schema for the application

Start the MySQL Workbench.

Select "Database/Connect to Database..." menu and connect to localhost, with the root username.

When connected, navigate to "Users and Privileges" on the left-hand panel, and create "discs_names" user with password set to "discs_names":

Make sure to put **localhost** in the field "**Limit Connectivity to Hosts**", as shown in the picture. Please, click the "Apply" button.

Figure 1: MysSQL user creation

Create new schema and name it "discs_names".

Assign permissions to user "discs_names" for the database schema "discs_names", please navigate again to "User and Privileges" on the left-hand side navigaiton bar and select the "discs_names" user from the list. Click the "Schema Privileges" tab, and click "Add Entry...", select "Selected schema" radio button in the new dialog and select the "discs_names" schema. Please click "OK" button to close the dialog.
Please, click the "Select "ALL"" button to enable full access of the user to the schema and click the "Apply" button.

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4. GLASSFISH CONFIGURATION

4.1 Install GlassFish

If glassfish is not yet installed, please download it from

```
http://download.java.net/glassfish/3.1.2/release/glassfish-3.1.2.zip
```

and extract it to suitable directory (hereinafter referred as glassfish_home).

4.2 Install MySQL JDBC driver

To be able to use Glassfish with MySQL, JDBC driver must be installed in the server's **lib** directory. To do that please, download driver from

```
http://cdn.mysql.com/Downloads/Connector-J/mysql-connector-java-
5.1.27.tar.gz
```

extract it and copy it to ${glassfish_home}/glassfish/lib.

4.3 Start GlassFish

To start GlassFish server, navigate to **${glassfish_home}/glassfish/bin** and run

```
./asadmin start-domain
```

To test the server, visit the http://localhost:4848/ URL in the browser after server is started. The Server Administration console is hosted on the 4848 port.

If this is a first run, administrator password should be set. To set it, please go to http://localhost:4848/ and select the Domain from the left-hand menu. There is a tab named "Administrator Password", please click it and enter the new password. Click the "Save" button.

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4.4   Setup security realm

Security and permissions of the application are managed via security realm of Glassfish. To login to the application you have to create new realm and add new user to it.
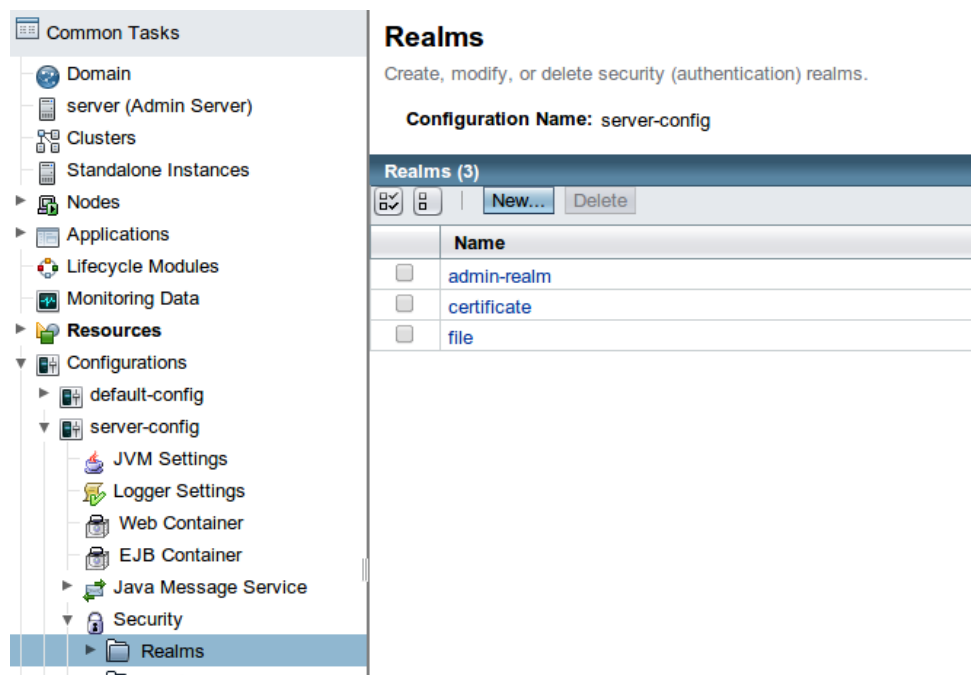
Go to http://localhost:4848 and navigate to security realm as shown below:

Figure 2: Navigate to security realm configuration

Click "New" and fill in as show below:

Figure 3: Create new security realm

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Click "Ok".

Click on newly created realm and then click "Manage users". Fill out as show below (password is "root"):

New File Realm User

Create new user accounts for the currently selected security realm.

Configuration Name: server-config

Realm Name: org.openepics.names.realm

User ID: *   root

Name can be up to 255 characters, must contain only alphanumeric, underscore, dash, or dot characters

Group List: Authenticated

Separate multiple groups with colon

New Password: ....

Confirm New Password: ....

Figure 4: Manage users

Click "OK".

Now root user is added. This step should be repeated for every new user.

4.5 Deploy application

First the application has to be build and packaged to web archive (maven2 is required). To do this navigate to ${project_root} of previously downloaded project and execute

```
mvn clean package
```

Web archive should be created in ${project_root}/target with name "names-x.x.x.war".

To deploy this web archive first make sure that GlassFish server is running. Then navigate to ${glassfish_home}/glassfish/bin and execute

```
./asadmin deploy ${project_root}/target/names-x.x.x.war
```

To test the application UI, please visit:

http://localhost:8080/names

Login with username and password set in Setup security realm section (user:root, password:root).

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