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| **Naming Convention Tool - Development Environment Setup**  **Instructions** |
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# JAVA ENVIRONMENT

## JRE

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

sudo alternatives --config java

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

# 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).

# MySQL Database Preparation

## Software requirements

MySQL server and MySQL Workbench should be installed on the machine. If they are not, please install them.

## 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”:

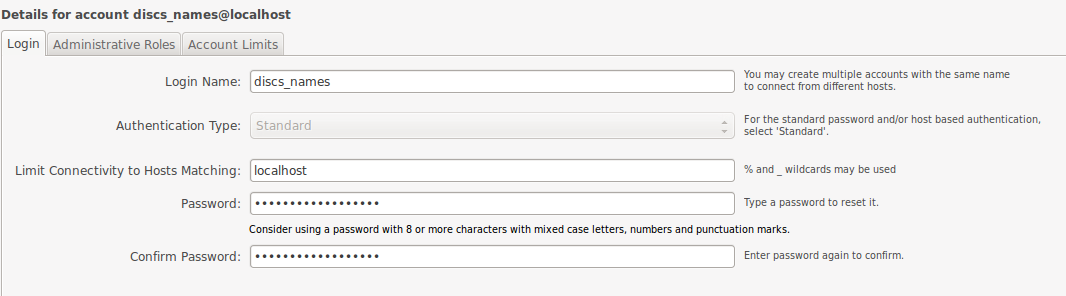
Make sure to put **localhost** in the field "**Limit Connectivity to Hosts**", as shown in the picture. Please, click the “Apply” button.

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.

# GLASSFISH CONFIGURATION

## 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).

## 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.

## 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.

## 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](http://localhost:4848/) and navigate to security realm as shown below:

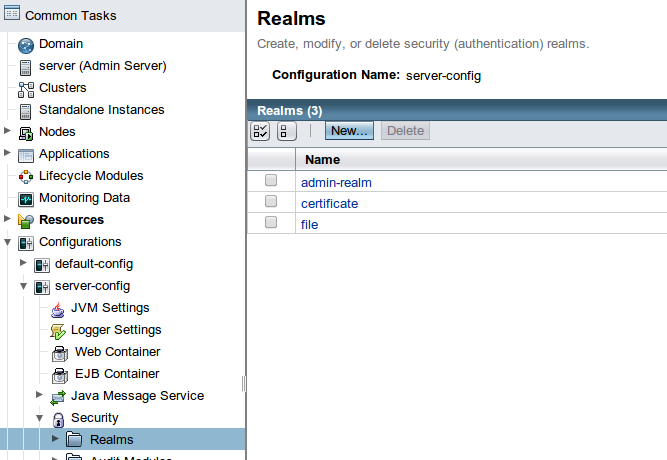


Figure 2: Navigate to security realm configuration

Click “New” and fill in as show below:

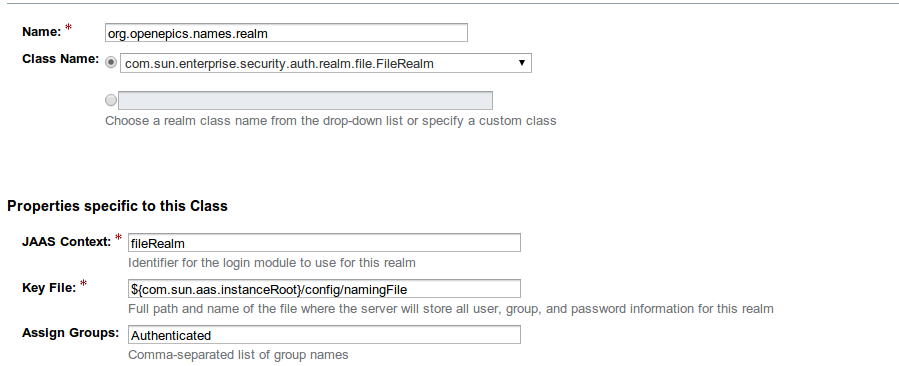


Figure 3: Create new security realm

Click “Ok”.

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

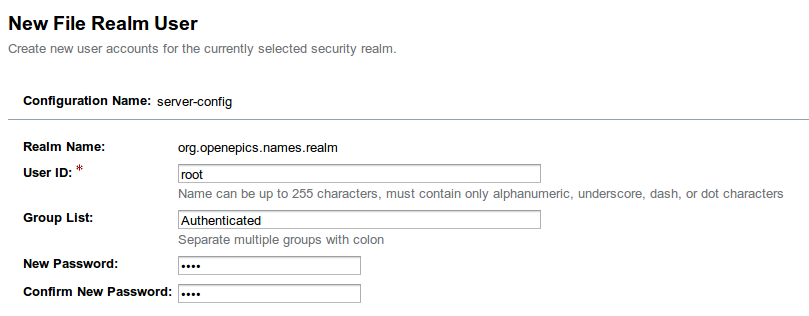


Figure 4: Manage users

Click “OK”.

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

## 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).