

# Grouper web services - authentication - built-in Grouper

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Out of the box, grouper-ws uses [Grouper built-in basic authentication](#) with usernames and passwords hashed and stored in the grouper database (after enabling it).

This authentication is built-in to Grouper and does not use tomcat or apache authentication

You need to configure Grouper to use the build-in basic authentication and you need to create/manage the username(s) and password(s) for the UI or for WS in the data base.

After you have completed the steps in the [Configure](#) section and the [Manage users](#) section on this page then the basic auth features should work for you.

NOTE: You can "Manage users" before and after you enable the built-in authentication feature. The account data lives in the DB so you need to have a stable DB data set too.

## Manage users

Enter your own values for:

- **\*\*\*PRINCIPAL\*\*\***
- **\*\*\*PASSWORD\*\*\***

Until there is a UI you can remove accounts in the database in the grouper\_password table (or we can add more GSH methods)

```
cd /opt/grouper/grouperWebapp/WEB-INF/bin
./gsh.sh      (as tomcat... e.g. sudo -u tomcat ./gsh.sh)

v2.5.29+
new GrouperPasswordSave().assignApplication(GrouperPassword.Application.UI).assignUsername("GrouperSystem").
assignPassword("password").save();// and for WebService accounts you can do this:
new GrouperPasswordSave().assignApplication(GrouperPassword.Application.WS).assignUsername("GrouperSystem").
assignPassword("WSpassword_can_be_different_for_the_same_username").save();
```

## Configure

This is on by default if you start a Grouper container v2.5 with "ws". But here are some details. Note the file locations in the container are listed in the [v2.5 container documentation](#)

File	Value	Description
grouper.hibernate.properties	<a href="#">grouper.is.ws.basicAuthn=true</a>	This enables the built-in Grouper authentication with passwords in the database
web.xml	No security-constraints or login-configs	This is the default provided with container, do not overlay
server.xml	ajp 8009 connector element: tomcatAuthentication="false"	This is the default provided with container, do not overlay  Tomcat is not doing authn so that attribute needs to be false
grouper-ws.properties	ws.security.non-rampart.authentication.class =	This should be blank (get remote_user)  This is the default provided with container, do not overlay
grouper-www.conf	no AuthType directives	This is the default provided with container, do not overlay