

Diary of a Java Enthusiast

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Java EE

Part 2 – Securing Web Application GlassFish V3 – JAAS (Authentication and Authorization)

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Part 2 – Securing Web Application GlassFish V3 – JAAS (Authentication and Authorization) ²⁴

21 Sep 2012 | Java EE

In this article, I will demonstrate how to connect our web application to our database and set up GlassFish JDBC realm authentication.



If you don't want to use the provided source code for this tutorial you need to create a Maven Web Application. In NetBeans simply go to File -> New Project -> Maven -> Web Application and the rest will be explained in the tutorial.

To be able to secure access to our web application we need to provide

JAAS Context: Identifier for the login module when configuring our web application

JNDI: JDBC resource that we will create for our database

User Table name that contains the list of authorized users

User Name Column

Password Column

Group Table name that contains the list of role groups

Group Table **User Name** Column

Group Name Column

Before we start configuring, we will create our tables first or just let them automatically generated by using eclipselink.ddl-generation. Don't forget to create your database schema, in this project I called my database SimpleCRUD_db.

There will be 4 tables/entities:

Address

User

User_Roles

Role

We will create three roles (you can have as many as you can) User Roles:

- Administrators
- Managers
- Users

EER Model is looking like this at the moment:

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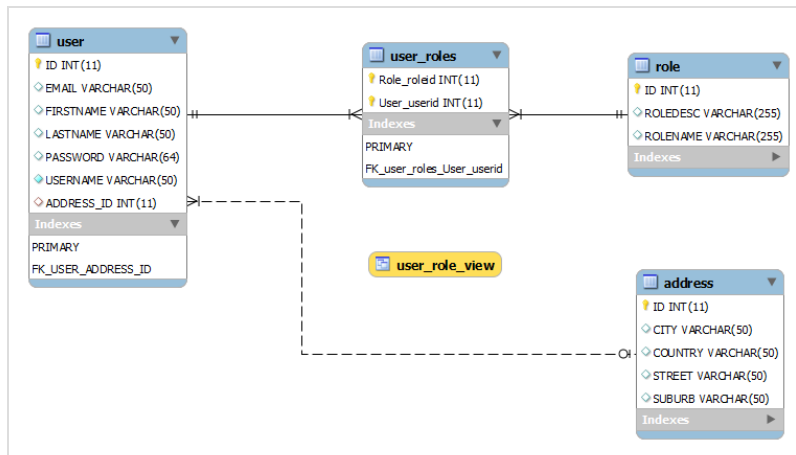
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In your persistence.xml file if Table Generation Strategy is set to Generate then you don't have to create the tables manually by hand. If you set it to none then you will have to use this SQL script (you can just copy and execute it in command line [I prefer MySQL workbench]) to create your tables:

```

1  CREATE TABLE `address` (
2    `ID` int(11) NOT NULL AUTO_INCREMENT,
3    `CITY` varchar(50) DEFAULT NULL,
4    `COUNTRY` varchar(50) DEFAULT NULL,
5    `STREET` varchar(50) DEFAULT NULL,
6    `SUBURB` varchar(50) DEFAULT NULL,
7    PRIMARY KEY (`ID`)
8  ) ENGINE=InnoDB DEFAULT CHARSET=utf8$$
9  delimiter $$
10
11 CREATE TABLE `role` (
12   `ID` int(11) NOT NULL AUTO_INCREMENT,
13   `ROLEDESC` varchar(255) DEFAULT NULL,
14   `ROLENAME` varchar(255) DEFAULT NULL,
15   PRIMARY KEY (`ID`)
16 ) ENGINE=InnoDB DEFAULT CHARSET=utf8$$
17 delimiter $$
18
19 CREATE TABLE `user` (
20   `ID` int(11) NOT NULL AUTO_INCREMENT,
21   `EMAIL` varchar(50) DEFAULT NULL,
22   `FIRSTNAME` varchar(50) DEFAULT NULL,
23   `LASTNAME` varchar(50) DEFAULT NULL,
24   `PASSWORD` varchar(64) DEFAULT NULL,
25   `USERNAME` varchar(50) NOT NULL,
26   `ADDRESS_ID` int(11) DEFAULT NULL,
27   PRIMARY KEY (`ID`),
28   KEY `FK_USER_ADDRESS_ID` (`ADDRESS_ID`),
29   CONSTRAINT `FK_USER_ADDRESS_ID` FOREIGN KEY (`ADDRESS_ID`) REFERENCES
30   (`ADDRESS_ID`) FOREIGN KEY (`ADDRESS_ID`) REFERENCES
31 ) ENGINE=InnoDB DEFAULT CHARSET=utf8$$
32 delimiter $$
33
34 CREATE TABLE `user_roles` (
35   `Role_roleid` int(11) NOT NULL,
36   `User_userid` int(11) NOT NULL,
37   PRIMARY KEY (`Role_roleid`, `User_userid`),
38   KEY `FK_user_roles_User_userid` (`User_userid`),
39   CONSTRAINT `FK_user_roles_User_userid` FOREIGN KEY (`User_userid`)
40   REFERENCES `user` (`ID`),
41   CONSTRAINT `FK_user_roles_Role_roleid` FOREIGN KEY (`Role_roleid`)
42   REFERENCES `role` (`ID`),
43 ) ENGINE=InnoDB DEFAULT CHARSET=utf8$$
44 delimiter $$
  
```

Also I need to mention that I created a view for JAAS authentication/authorization and used it for JDBC realm configuration.

```

1  CREATE ALGORITHM=UNDEFINED DEFINER=`root`@`localhost`
2  SQL SECURITY DEFINER VIEW `simplecrud_db`.`user_role_view` AS select
3  `simplecrud_db`.`user`.`USERNAME` AS `username`,
4  `simplecrud_db`.`user`.`PASSWORD` AS `password`,
5  `simplecrud_db`.`role`.`ROLENAME` AS `rolename`
6  from ((`simplecrud_db`.`user_roles` join `simplecrud_db`.`user`
7  on((`simplecrud_db`.`user_roles`.`User_userid` = `simplecrud_db`.`user`
8  join `simplecrud_db`.`role`
9  on((`simplecrud_db`.`user_roles`.`Role_roleid` = `simplecrud_db`.`role`
  
```

For initial population

```

1  INSERT INTO `simplecrud_db`.`address`
2  (`ID`, `CITY`, `COUNTRY`, `STREET`, `SUBURB`)
3  VALUES
4  ('1', 'city', 'country', 'street', 'suburb'),
5  ('2', 'city', 'country', 'street', 'suburb'),
6  ('3', 'city', 'country', 'street', 'suburb'),
7  ('4', 'city', 'country', 'street', 'suburb'),
8  ('5', 'city', 'country', 'street', 'suburb'),
9  ('6', 'city', 'country', 'street', 'suburb'),
10 ('7', 'city', 'country', 'street', 'suburb'),
11 ('8', 'city', 'country', 'street', 'suburb'),
  
```

```

12 ('9', 'city', 'country', 'street', 'suburb'),
13 ('10', 'city', 'country', 'street', 'suburb'),
14 ('11', 'city', 'country', 'street', 'suburb'),
15 ('12', 'city', 'country', 'street', 'suburb'),
16 ('13', 'city', 'country', 'street', 'suburb');
17
18 INSERT INTO `simplecrud_db`.`role`
19 (`ID`, `ROLEDESC`, `ROLENAME`)
20 VALUES
21 ('1', 'Administrator', 'Administrators'),
22 ('2', 'Manager', 'Managers'),
23 ('3', 'User', 'Users');
24
25 INSERT INTO `simplecrud_db`.`user`
26 (`ID`, `EMAIL`, `FIRSTNAME`, `LASTNAME`, `PASSWORD`, `USERNAME`, `AD
27 VALUES
28 ('1', 'e-mail', 'name', 'surname', '03ac674216f3e15c761ee1a5e255f067
29 ('2', 'e-mail', 'name', 'surname', '03ac674216f3e15c761ee1a5e255f067
30 ('3', 'e-mail', 'name', 'surname', '03ac674216f3e15c761ee1a5e255f067
31 ('4', 'e-mail', 'name', 'surname', '03ac674216f3e15c761ee1a5e255f067
32 ('5', 'e-mail', 'name', 'surname', '03ac674216f3e15c761ee1a5e255f067
33 ('6', 'e-mail', 'name', 'surname', '03ac674216f3e15c761ee1a5e255f067
34 ('7', 'e-mail', 'name', 'surname', '03ac674216f3e15c761ee1a5e255f067
35 ('8', 'e-mail', 'name', 'surname', '03ac674216f3e15c761ee1a5e255f067
36 ('9', 'e-mail', 'name', 'surname', '03ac674216f3e15c761ee1a5e255f067
37 ('10', 'e-mail', 'name', 'surname', '03ac674216f3e15c761ee1a5e255f067
38 ('11', 'e-mail', 'name', 'surname', '03ac674216f3e15c761ee1a5e255f067
39 ('12', 'e-mail', 'name', 'surname', '03ac674216f3e15c761ee1a5e255f067
40 ('13', 'e-mail', 'name', 'surname', '8cc7a4de25920211fb328c8b3e3f7cc
41
42 INSERT INTO `simplecrud_db`.`user_roles`
43 (`Role_roleid`, `User_userid`)
44 VALUES
45 ('1', '1'),
46 ('3', '2'),
47 ('3', '3'),
48 ('3', '4'),
49 ('3', '5'),
50 ('3', '6'),
51 ('3', '7'),
52 ('3', '8'),
53 ('3', '9'),
54 ('3', '10'),
55 ('3', '11'),
56 ('3', '12'),
57 ('3', '13');

```

Mapping entities for our tables.

User Entity after adding roles:

```

1 @Entity
2 public class User extends BaseEntity implements Serializable {
3
4     @Column(nullable = false, length = 50)
5     private String username;
6
7     @Column(length = 50)
8     private String firstname;
9
10    @Column(length = 50)
11    private String lastname;
12
13    @Column(length = 50)
14    private String email;
15
16    @Column(length = 64)
17    private String password;
18
19    @OneToOne(cascade = {CascadeType.ALL})
20    private Address address;
21
22    @ManyToMany
23    @JoinTable(name = "user_roles", joinColumns = {
24        @JoinColumn(name = "User_userid"), inverseJoinColumns = {
25            @JoinColumn(name = "Role_roleid")}
26    private List<Role> roles;
27
28    public User() {
29        roles = new ArrayList<Role>();
30        address = new Address();
31    }
32
33    public String getUsername() {
34        return this.username;
35    }
36
37    public void setUsername(String username) {
38        this.username = username;
39    }
40
41    public String getFirstname() {
42        return this.firstname;
43    }
44
45    public void setFirstname(String firstname) {

```

```

46     this.firstname = firstname;
47 }
48
49 public String getLastName() {
50     return this.lastname;
51 }
52
53 public void setLastName(String lastname) {
54     this.lastname = lastname;
55 }
56
57 public String getEmail() {
58     return this.email;
59 }
60
61 public void setEmail(String email) {
62     this.email = email;
63 }
64
65 public String getPassword() {
66     return this.password;
67 }
68
69 public void setPassword(String password) {
70     this.password = password;
71 }
72
73 public Address getAddress() {
74     return this.address;
75 }
76
77 public void setAddress(Address address) {
78     this.address = address;
79 }
80
81 public List<Role> getRoles() {
82     return roles;
83 }
84
85 public void setRoles(List<Role> roles) {
86     this.roles = roles;
87 }
88 }

```

Role Entity:

```

1  @Entity
2  public class Role extends BaseEntity implements Serializable {
3
4      private String roledesc;
5      private String rolename;
6
7      public Role() {
8      }
9
10     public Role(Integer roleid, String rolename) {
11         this.rolename = rolename;
12     }
13
14     @ManyToMany(mappedBy = "roles")
15     private List<User> users;
16
17     public String getRoledesc() {
18         return this.roledesc;
19     }
20
21     public void setRoledesc(String roledesc) {
22         this.roledesc = roledesc;
23     }
24
25     public String getRolename() {
26         return this.rolename;
27     }
28
29     public void setRolename(String rolename) {
30         this.rolename = rolename;
31     }
32
33     public List<User> getUsers() {
34         return users;
35     }
36
37     public void setUsers(List<User> users) {
38         this.users = users;
39     }
40 }

```

Address Entity will look the same:

```

1  @Entity
2  public class Address extends BaseEntity implements Serializable {
3
4      @Column(length = 50)
5      private String street;
6
7      @Column(length = 50)
8      private String suburb;

```

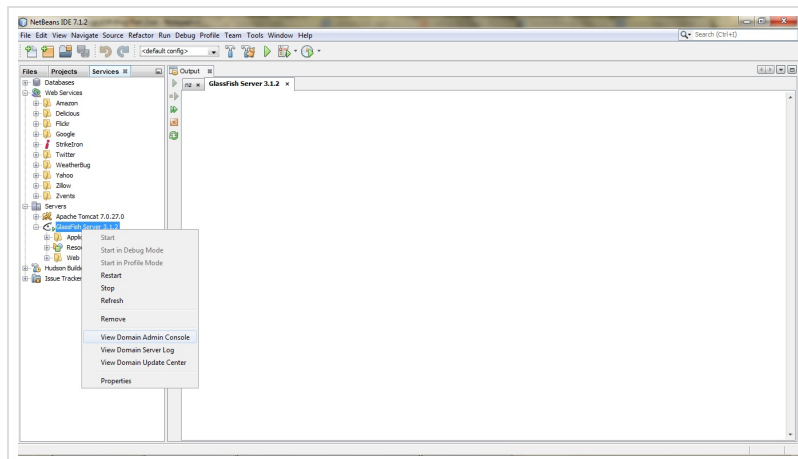
```

9
10 @Column(length = 50)
11 private String city;
12
13 @Column(length = 50)
14 private String country;
15
16 public Address() {
17 }
18
19 public String getStreet() {
20     return this.street;
21 }
22
23 public void setStreet(String street) {
24     this.street = street;
25 }
26
27 public String getSuburb() {
28     return this.suburb;
29 }
30
31 public void setSuburb(String suburb) {
32     this.suburb = suburb;
33 }
34
35 public String getCity() {
36     return this.city;
37 }
38
39 public void setCity(String city) {
40     this.city = city;
41 }
42
43 public String getCountry() {
44     return this.country;
45 }
46
47 public void setCountry(String country) {
48     this.country = country;
49 }
50 }

```

Let's create a connection pool for our database.

1-) Open your GlassFish Domain Admin Console by right clicking on GlassFish Server in NetBeans IDE or simply go to <http://localhost:4848/common/index.jsf> (GlassFish Server must be running)



2-) Go to Common Tasks > Resources > JDBC > JDBC Connection Pools > New Connection Pool

3-) Name the connection pool (SimpleCRUD_ConnectionPool), Resource Type: javax.sql.DataSource, DataBase Driver Vendor: MySQL click next



Select all additional properties and delete except:

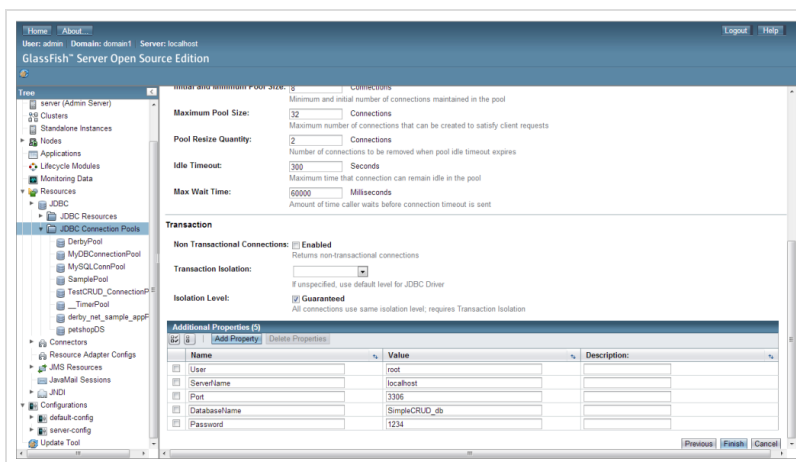
User you can put **root** here

Password root's password

ServerName localhost if your web application is not running on your local (127.0.0.1 is the default on standard Ubuntu server) in this case you will have to provide full url of your database server

DatabaseName SimpleCRUD_db

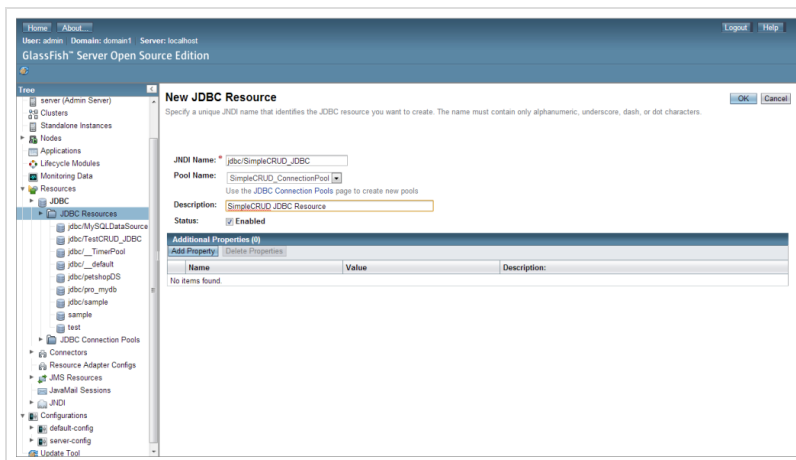
Port usually 3306 it is the default port.



You need to save this configuration and ping to the database, if it succeeds there is no problem.

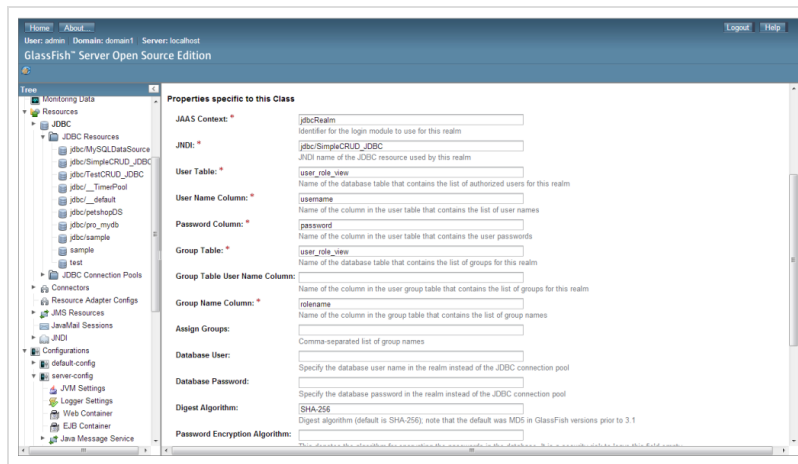
Next thing we need to do is to create a JDBC resource for our web application.

- 1-) Go to Common Tasks -> Resources -> JDBC -> JDBC Resources -> New
- 2-) Name your JNDI starting with 'jdbc/' ie (jdbc/SimpleCRUD_JDBC) and choose the connection pool you have just created click save (in this case it is SimpleCRUD_ConnectionPool).



Now we will create our security realm. Go to Common Task-> Configuration-> Server-Config-> Security-> Realms -> New.

- Name your realm SimpleCRUD_Realm
- Select com.sun.enterprise.security.auth.realm.jdbc.JDBCRealm



JAAS Context: jdbcRealm

JNDI: jdbc/SimpleCRUD_JDBC -> whatever you named it

User Table: user_role_view

User Name Column: username

Password Column: password

Group Table: user_role_view

Group Table User Name Column:

Group Name Column: rolename

Assign Groups:

Database User:

Database Password:

Digest Algorithm: SHA-256

Password Encryption Algorithm:

Encoding:

Charset:UTF-8

Once you are done here, save it and we are ready to define our persistent unit in a persistence.xml file.

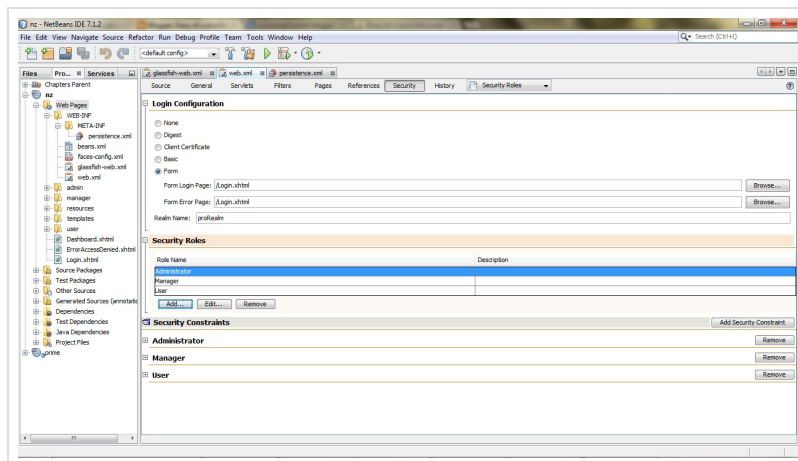
Let's go back to NetBeans IDE and check if there is no persistence.xml file in your web project you will need to add it by right clicking on project -> new -> persistence-unit.

persistence.xml file is going to look like:

[+ expand source](#)

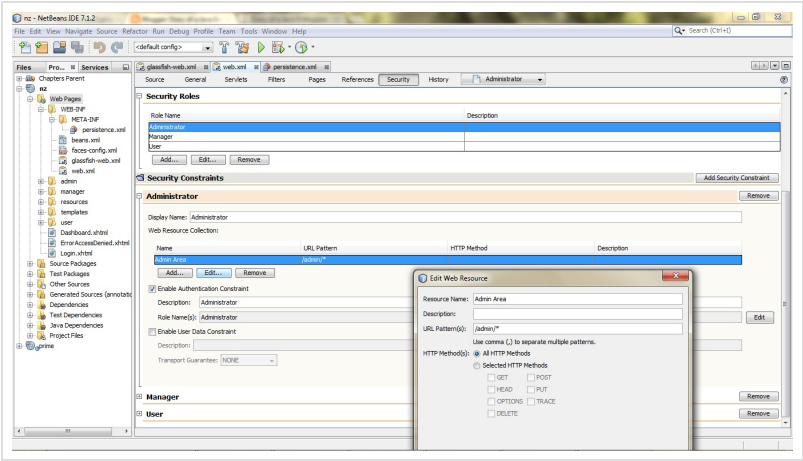
All our Entity Classes must be declared between class tags if you want to add them all by default then exclude-unlisted-classes = false. EclipseLink.ddl-generation option is to create tables if they don't exist in the database.

The next thing is to start configuring our security properties in web.xml file. We will go to Security / Login configuration section, here select "form" and type the file name. i.e. /Login.xhtml. Most importantly we will need to provide our previously created security realm name.



Now configure roles: Administrator, Manager, and User roles will be declared in **Security Roles** section. (You can have different roles that is up to you, this is just for an example)

The next thing is to bind these roles to Security Constraints. As it is shown with the image, a security role and a corresponding url pattern need to be added along with other roles.



Our login form (Login.xhtml file).

[+ expand source](#)

Last thing we need to do is to define the security role mappings in glassfish-web.xml file.

It is a simple process:

Add Security Role Mapping

Type "Administrator" for security Role Name

and "Administrators" for Group Name.

Download the source code [here](#)

Please try live demo (Username: Admin, Password:1234)

Cheers Emre

24 thoughts on "Part 2 – Securing Web Application GlassFish V3 – JAAS (Authentication and Authorization)"



Reply

Kay Wrobel

Dec 4, 2012 4:01 am

Thanks for the great article. There are some inconsistencies on this page I'd like to point out: The ID columns in the ER-Diagram do not match the SQL script. In the script, each table's ID field is 'ID' which matches the BaseEntity; the diagram shows columnNameid, which may have been a setting in your MySQL workbench. Also, in the script for the User table, the actual ID column 'ID' and and PRIMARY KEY ('userid') do not match (neither do the other tables). That would create an error when running the script, I'm sure. I am creating a diagram alongside and so am not copying and pasting the script you have. Just pointing those out.

Haven't read through the entire article just yet, but I love how the screen shots look on your introductory page. This is exactly what I have been looking for. I wish that NetBeans would incorporate PrimeFaces more into their CRUD generation. Obviously they'd have to rewrite this to be more like your pages 😊



Reply

simtay

Dec 13, 2012 10:11 am

Hi Kay,
Sorry, I forgot to update the EER diagram image and SQL scripts, thanks for pointing it out. I have replaced the image with the up to date one. I will also deploy this application on a server so you can see it in a production environment.

Live demo (Username: Admin, Password:1234)

Cheers
Emre



techMagnificent

Jan 3, 2013 8:56 am



Reply

```
INSERT INTO `user` VALUES ('1', 'Admin',
'03ac674216f3e15c761ee1a5e255f067953623c8b388b4459e13f978d7c846f4',
'name', 'surname', 'name@domain.com', '1');
INSERT INTO `user` VALUES ('2', 'Manager',
'03ac674216f3e15c761ee1a5e255f067953623c8b388b4459e13f978d7c846f4',
'name', 'surname', 'name@domain.com', '2');
INSERT INTO `user` VALUES ('3', 'User',
'03ac674216f3e15c761ee1a5e255f067953623c8b388b4459e13f978d7c846f4',
'name', 'surname', 'name@domain.com', '3');
```

Thanks for the great tutorial, This is exactly what I am looking for

Can you please tell the values of the password entered into the database.

Can you also post or extend the current tutorial to support Sorting...

Thanks



Reply

simtay

Jan 4, 2013 9:02 am

The password is 1234 in SHA256-HEX format.
Thank you



Reply

techMagnificent

Jan 8, 2013 8:29 pm

Thanks Simtay, for the great tutorial, can you share pointers if we need to extend the current use-case with sorting and yes a little search kinda auto-complete

Thanks and Regards
techMagnificent 😊



Reply

simtay

Jan 10, 2013 3:48 pm

Thank you too! I have added Part-6 that covers sorting. You can always look at Primefaces showcase if you need more examples (I am sure you already know that).

Cheers Emre



Reply

Constantin Popa

Jan 21, 2013 4:59 am

Hi,
I just can't make JAAS to work with your demo project.
Can't pass the authentication phase.
Could you please provide the exact versions of the software you're using: Glassfish, Manven, Netbeans, Mysql.
Thanks in advance.



Reply

simtay

Jan 21, 2013 2:05 pm

Please see <http://www.simtay.com/simple-crud-web-application-with-jsf-2-1-primefaces-3-5-maven-and-jpa/> JAAS problems are related to Glassfish server. Please try to use Version 3.



Reply

Chandan

Feb 24, 2013 9:15 pm

Thanks for such a great article!!

While creating the MySQL connection-pool using GlassFish admin console, it reported two errors:

1. In MySQL server, 'root' user didn't have password so it raised error. User should ensure that 'password' field is not empty. That is, credential should have non-empty password.
2. It requires MySQL/J connector to be installed in GlashFish at glassfishdomainsdomain1libext if it is not already installed to avoid errors like "Class name is wrong or classpath is not set for :

com.mysql.jdbc.jdbc2.optional.MysqlDataSource Please check the server.log for more details."



Reply

simtay

Feb 26, 2013 7:44 am

Hi Chandan,
 1- Your root user has to have a password.
 2- Your Glassfish is not configured properly. Make sure you have mysql-connector-java-5.1.13-bin.jar in your library folder. (i.e. C:\Program Files\glassfish-3.1.2.2\glassfish\domains\domain1\lib) If you need more help please e-mail me via emre.simtay@gmail.com.
 Cheers



Reply

nerd

May 21, 2013 8:17 am

Does anybody make that code work with Postgresql ?
 I have no idea how to pass the security/ authentication step. It still ends up with login problem on first screen.



Reply

simtay

May 21, 2013 11:48 am

Please download PostgreSQL java connector driver and place it in domain1/lib folder and make sure that you can ping your SQL server in GlassFish admin UI where u create a connection pool see Part 2 I have explained it how. If you have anymore questions please email me.



Reply

DPinup

May 31, 2013 3:46 am

Hi Emre,
 And thanks for this wonderful article I found wandering around some security issues.
 I downloaded your source code and Mabenly configured. Solved the project problems (however I configured to JDK_1.7 and Glassfish 3+) and database defined as proposed.

After that, Connection pool established and ping correctly checked.
 Finally Security Realm configured and ...

Application correctly starts but when trying to identify the User/pass, I got the message:

Error!

The username or password you provided does not match our records.

The Glassfish Server 3+ log report shows:

```
INFO:
file:/C:/Users/XXXX/Documents/NetBeansProjects/Simtay-SimpleCRUD-354999e/target/SimpleCRUD-1.0-SNAPSHOT/WEB-INF/classes/_com.nz_war_1.0-SNAPSHOTPU
logout successful
INFO: EclipseLink, version: Eclipse Persistence
Services - 2.3.2.v20111125-r10461
INFO:
file:/C:/Users/XXXX/Documents/NetBeansProjects/Simtay-SimpleCRUD-354999e/target/SimpleCRUD-1.0-SNAPSHOT/WEB-INF/classes/_com.nz_war_1.0-SNAPSHOTPU
login successful
INFO: EJB5181:Portable JNDI names for EJB
UserService:
INFO: Inicializando Mojarra 2.1.6 (SNAPSHOT
20111206) para el contexto '/Simtay-SimpleCRUD-354999e'
INFO: Running on PrimeFaces 3.4.2
INFO: Using OmniFaces version 1.4.1
INFO: WEB0671: Loading application [SimpleCRUD] at
[/Simtay-SimpleCRUD-354999e]
WARNING: WEB9102: Web Login Failed:
com.sun.enterprise.security.auth.login.common.LoginException:
```

```
Login failed: Fallo de conexión de archivo para
admin.
SEVERE: javax.servlet.ServletException: Exception
thrown while attempting to authenticate for user:
admin
```

I look for some solutions and I didn't find any, as It seems all problems were related to bad configurations of the realms and you did it correctly.
Any idea?

I also found that 1234 -> SHA-256 (not Hex)

"a883dafc480d466ee04e0d6da986bd78eb1fdd2178d04693723da3a8f95d42f4"

Didn't solve the problem neither



Reply

simtay

May 31, 2013 8:50 am

Someone else had this weird problem and I am assuming that you configured everything perfectly. I had a look at his project and everything was configured correctly but he was using different version of glassfish, I guess it was the problem!

What he did was to add last two properties to the config file, domain.xml
(C:\Users*****\.netbeans\7.1.2\config\GF3\domain1\config) or using Glassfish Administrator panel. But mine is working without these properties.



Reply

Marlon Freire

Aug 23, 2013 6:20 am

Hi,

I'm having this problem when I try to login .. I've looked all Realm configuration and everything is ok .. someone could help me solve this problem?

```
WARNING: WEB9102: Web Login Failed:
com.sun.enterprise.security.auth.login.common.LoginException:
Login failed: Failed file login for admin.
SEVERE: javax.servlet.ServletException: Exception thrown
while attempting to authenticate for user: admin
```

best regards,

Marlon Freire



Reply

simtay

Aug 26, 2013 7:57 am

You must be missing something! You should read [Part-2](#) over again! If you can't get it working email me the full error. Cheers



Reply

Halil Karakose

Sep 16, 2013 9:15 pm

Hi Simtay

During realm definition, I leave "Password Encryption Algorithm" section empty and glassfish gives me a warning:

"It is a security risk for not specifying the Password Encryption Algorithm" Continue?

What actually happens if I leave this field empty?



Reply

simtay

Sep 17, 2013 11:49 am

No sure, I have researched it before couldn't come up with anything. Please see this [link...](#)





Reply

hjk

Sep 18, 2013 1:32 am

Hi Simtay,
your demo is really great.
I followed all instructions, but I also don't manage to login with
'admin'/'1234' (ignore quotes) on GF 3.1.2.2 using MySQL 5.6
also with the above cited error message:

Error!

The username or password you provided does not match our records.

My console log says:

```
[#|2013-09-17T15:30:26.110+0200|WARNING|glassfish3.1.2|javax.enterprise.system.container.web.com.sun.web.security|_ThreadID=99;_ThreadName=2;|WEB9102: Web Login Failed: com.sun.enterprise.security.auth.login.common.LoginException: Login failed: Failed file login for admin|#]
```

```
[#|2013-09-17T15:30:26.111+0200|SEVERE|glassfish3.1.2|com.nz.simplecrud.controller.LoginController|_ThreadID=99;_ThreadName=Thread-2;|javax.servlet.ServletException: Exception thrown while attempting to authenticate for user: admin|#]
```

Any help appreciated!!

best regards
Juergen



Reply

simtay

Sep 27, 2013 7:58 am

Can you please read part two and check that everything you have done correctly! Cheers



Reply

Can ATAC

Oct 2, 2013 11:04 pm

Hi,
Great tutorial simtay,

Just a little mistake in the web.xml realm-name : should be
'SimpleCRUD_Realm' instead of 'proRealm' to stay coherent with the GF
realm configuration screenshot.

Cheers !



Reply

simtay

Oct 31, 2013 8:22 pm

Thanks mate



Reply

Caterpillar

Nov 20, 2013 5:54 am

Hi, are you aware of any nice tutorial that explains the same article but
on Tomcat/TomEE platform?



Reply

simtay

Nov 20, 2013 6:57 am

No, sorry mate. I really don't know. But I will be making a tutorial
on how to create exact on TomEE using Apache shiro maybe. Not
sure.

Leave a Reply

Author (required)

Email (will not be published)(required)

Website

Just to prove you are a human, please answer the following math challenge either out loud

or typing into the text box

one × four =

[b](#)[i](#)[link](#)[b-quote](#)[code](#)[close tags](#)[Post Comment](#)

« [Part 1 – Creating Entity Classes With POJO + Annotation](#)

[Part 3 – Basic Implementation of CRUD](#) »