Testing instructions MDL-21342

1- Try to login successfully with an account and login_attempt table empty

- Delete all record in table login_attempt
- Access page login/index.php
- Enter a valid login and password
- You should log into the system with success and the table login_attempt should contain a record like this one:

<table>
<thead>
<tr>
<th>id</th>
<th>userid</th>
<th>loginstatus</th>
<th>agent</th>
<th>ip</th>
<th>timecreated</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>0</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352242337</td>
</tr>
</tbody>
</table>

- Logout
- Access page login/index.php
- Enter a valid login and password
- You should log into the system with success and the table login_attempt should contain a record like this one:

<table>
<thead>
<tr>
<th>id</th>
<th>userid</th>
<th>loginstatus</th>
<th>agent</th>
<th>ip</th>
<th>timecreated</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>0</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352242337</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
<td>0</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352242499</td>
</tr>
</tbody>
</table>

2- Suspend an account by having it failed a number of time greater than maxfailedloginattempt

- Check the value of maxfailedloginattempt and suspensiontimeout
- Access page login/index.php
- Enter a valid login and a wrong password a number of time greater than maxfailedloginattempt
- At each try you should see the message "Invalid login, please try again" (invalidlogin)
- The last time you should see the message "Sorry, your account is suspended because you have exceeded the allowed number of login attempts. You will be unsuspended in 3 minutes." (errortoomanylogins) where the number of minutes should be the same as suspensiontimeout configuration
- The user should get an email with the suspendedtomanyattempttext message
- Access page login/index.php
- Enter a valid login and a wrong password again
- You should see the errortoomanylogins again
3- An account suspend by having it failed a number of time greater than maxfailedloginattempts is unsuspended by the login process

- Verify the value of maxfailedloginattempt and suspensiontimeout
- Access page login/index.php
- Enter a valid login and a wrong password a number of time greater than maxfailedloginattempts
- Wait for the time specify by suspensiontimeout
- Enter a valid login and password
- You should log into the system with success and the table login_attempt should contain records like this:

<table>
<thead>
<tr>
<th>id</th>
<th>userid</th>
<th>loginstatus</th>
<th>agent</th>
<th>ip</th>
<th>timecreated</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64)</td>
<td>127.0.0.1</td>
<td>1352242710</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64)</td>
<td>127.0.0.1</td>
<td>1352242723</td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64)</td>
<td>127.0.0.1</td>
<td>1352242783</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
<td>2</td>
<td>Mozilla/5.0 (X11; Linux x86_64)</td>
<td>127.0.0.1</td>
<td>1352242783</td>
</tr>
<tr>
<td>7</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64)</td>
<td>127.0.0.1</td>
<td>1352242790</td>
</tr>
</tbody>
</table>

4- An account suspend by having it failed a number of time greater than maxfailedloginattempts is unsuspended by the cron.php process

- The user should get an email with the unsuspendedtomanyattempttext message
- Verify the value of maxfailedloginattempt and suspensiontimeout
- Access page login/index.php
- Enter a valid login and a wrong password a number of time greater than maxfailedloginattempt
- Run the cron.php
- The account should remain suspended
- Wait for the time specify by suspensiontimeout
- Run the cron.php
- The user should get an email with the unsuspendedtomanyattempttext message
- Enter a valid login and password
- You should log into the system with success and the table login_attempt should contain a record like this:

<table>
<thead>
<tr>
<th>id</th>
<th>userid</th>
<th>loginstatus</th>
<th>agent</th>
<th>ip</th>
<th>timecreated</th>
</tr>
</thead>
<tbody>
<tr>
<td>58</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352311239</td>
</tr>
<tr>
<td>59</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352311241</td>
</tr>
<tr>
<td>60</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352311243</td>
</tr>
<tr>
<td>61</td>
<td>4</td>
<td>2</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352311243</td>
</tr>
<tr>
<td>62</td>
<td>4</td>
<td>5</td>
<td>cron.php</td>
<td>cron.php</td>
<td>1352312709</td>
</tr>
<tr>
<td>63</td>
<td>4</td>
<td>0</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352312752</td>
</tr>
</tbody>
</table>

5- An account suspend by having it failed a number of time greater than maxfailedloginattempt is unsuspended by an admin – Eye icon

- Verify the value of maxfailedloginattempt and suspensiontimeout
- Access page login/index.php
- Enter a valid login and a wrong password a number of time greater than maxfailedloginattempt
- Open another browser
- Log in as an admin
- Access the page admin/user.php and search for the user that got suspended
- The user should have the eye close
- Click on the eye to unsuspend the account
- The user should have the eye open
- Return in the first browser and enter a valid login and password
- You should log into the system with success and the table login_attempt should contain records like this:
An account suspend by having it failed a number of time greater than maxfailedloginattempt is unsuspended by an admin – Edit icon

- Verify the value of maxfailedloginattempt and suspensiontimeout
- Access page login/index.php
- Enter a valid login and a wrong password a number of time greater than maxfailedloginattempt
- Open another browser
- Log in as an admin
- Access the page admin/user.php and search for the user that got suspended
- The user should have the eye close
- Click edit icon
- The checkbox "Suspended account" should be check
- Uncheck the "Suspended account" checkbox and click on "Update profile" button
- The user should have the eye open
- The user should get an email with the unsuspendedtomanyattempttext message
- Return in the first browser and enter a valid login and password
- You should log into the system with success and the table login_attempt should contain a record like this one:
### 7- An account is suspended (but not for too many attempt) by an admin – Eye icon

- Open another browser
- Log in as an admin
- Access the page admin/user.php and search for the user that you want to suspend
- The user should have the eye open
- Click on the eye to suspend the account
- The user should have the eye close
- Return in the first browser and enter a valid login and password
- You should see the message "Invalid login, please try again" (invalidlogin)
- You should be able to enter as many failed attempt as you want. You should never see the message errortoomanylogins
- The table login_attempt should contain records like this:

<table>
<thead>
<tr>
<th>id</th>
<th>userid</th>
<th>loginstatus</th>
<th>agent</th>
<th>ip</th>
<th>timecreated</th>
</tr>
</thead>
<tbody>
<tr>
<td>66</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313111</td>
</tr>
<tr>
<td>67</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313141</td>
</tr>
<tr>
<td>68</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313143</td>
</tr>
<tr>
<td>69</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313146</td>
</tr>
<tr>
<td>70</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313148</td>
</tr>
<tr>
<td>71</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313150</td>
</tr>
<tr>
<td>72</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313153</td>
</tr>
</tbody>
</table>

### 8- An account is suspended (but not for too many attempts) by an admin – Edit icon

- Open another browser
- Log in as an admin
- Access the page admin/user.php and search for the user that you want to suspend
- The user should have the eye open
- Click on the edit icon
- The checkbox "Suspended account" should be check
- Uncheck the "Suspended account" checkbox and click on "Update profile" button
- The user should have the eye close
- Return in the first browser and enter a valid login and password
- You should see the message "Invalid login, please try again" (invalidlogin)
- You should be able to enter as many failed attempt as you want. You should never see the message error too many logins
- The table login_attempt should contain records like this:

<table>
<thead>
<tr>
<th>id</th>
<th>userid</th>
<th>loginstatus</th>
<th>agent</th>
<th>ip</th>
<th>timecreated</th>
</tr>
</thead>
<tbody>
<tr>
<td>66</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313111</td>
</tr>
<tr>
<td>67</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313141</td>
</tr>
<tr>
<td>68</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313143</td>
</tr>
<tr>
<td>69</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313146</td>
</tr>
<tr>
<td>70</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313148</td>
</tr>
<tr>
<td>71</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313150</td>
</tr>
<tr>
<td>72</td>
<td>4</td>
<td>1</td>
<td>Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.11...</td>
<td>127.0.0.1</td>
<td>1352313153</td>
</tr>
</tbody>
</table>

9- Change password
- Access page login/index.php
- Enter a valid login and password
- Access the change password interface (/login/change_password.php?id=1)
- Enter your current password
- Enter your new password 2 times
- Click on “Save changes”
- Logout
- Access page login/index.php
- Enter a valid login and the new password
- You should log successfully

10- Change password - Suspend by having it failed a number of time greater than max failed login attempt
- Access page login/index.php
- Enter a valid login and password
- Access the change password interface (/login/change_password.php?id=1)
- Enter an invalid password in the field current password
- Enter anything you want in the 2 fields new password
- Click on the button “Save changes”
- Repeat the last 3 steps a number of time greater than maxfailedloginattempt
- At each try you should see the message "Invalid login, please try again" (invalidlogin)
- The last time you should see the message "Sorry, your account is suspended because you have exceeded the allowed number of login attempts. You will be unsuspended in 3 minutes." (errortoomanylogins) where the number of minutes should be the same as suspensiontimeout configuration
- The user should get an email with the suspendedtomanyattempttext message

**11- Forgot password**

- Access the forgot password page (/login/forgot_password.php)
- Enter your login
- Click on the search button
- You should got an email
- Click the link in the email
- You should got an another email
- Try to login with your new password
- You should log successfully
- Update your password
- Logout
- Access page login/index.php
- Enter a valid login and the new password
- You should log successfully

**12- Delete old logs of login_attempt**

- Check that your table login_attempt contain records
- Run this SQL to artificially age the record
  - UPDATE mdl_login_attempt
    - SET timecreated = UNIX_TIMESTAMP(TIMESTAMPADD(MONTH, -14, FROM_UNIXTIME(timecreated)))
- Run the cron.php and check for the sentence “Deleted old login_attempt records”
- Check that the table login_attempt is empty

Note: You may have to run the cron.php more than one time because the cleanup routine is not launch every time.
New configurations

1- Manage authentication
   - Log in as an admin
   - Access the page /admin/settings.php?section=manageauths
   - At the bottom you should see 2 new configurations
     - maxfailedloginattempt
     - suspensiontimeout

2- Cleanup
   - Log in as an admin
   - Access the page /admin/settings.php?section=cleanup
   - You should see a new configuration
     - loginatemptlifetime

Installation process

1- Install Moodle from scratch
   - Make a clean install of Moodle
   - Check that the table login_attempt exist
     - Check the type and the length of each columns
     - Check that the index is present

2- Upgrade the moodle version
   - Make a clean install of Moodle 2.3
   - Get the code of the version 2.4
   - Upgrade Moodle
   - Check that the table login_attempt exist
- Check the type and the length of each column
- Check that the index is present