

# Connecting Mysql to php file hosted in apache2 server

## Install Mysql-server to linux

first we need to install Mysql-server to work with Database.

```
cohdse182f-005@ubuntu: ~  
File Edit View Search Terminal Help  
cohdse182f-005@ubuntu:~$ sudo apt-get install php mysql-server
```

## Configuring Password Access for the MySQL Root Account

check which authentication method each of your MySQL user accounts use with the following command:

```
cohdse182f-005@ubuntu:~$ sudo mysql  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 14  
Server version: 5.7.24-0ubuntu0.18.04.1 (Ubuntu)  
  
Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> SELECT user,authentication_string,plugin,host FROM mysql.user;  
+-----+-----+-----+-----+  
| user          | authentication_string | plugin           | host      |  
+-----+-----+-----+-----+  
| root          | *THISISNOTAVALIDPASSWORDTHATCANBEUSEDHERE | auth_socket     | localhost |  
| mysql.session | *THISISNOTAVALIDPASSWORDTHATCANBEUSEDHERE | mysql_native_password | localhost |  
| mysql.sys     | *THISISNOTAVALIDPASSWORDTHATCANBEUSEDHERE | mysql_native_password | localhost |  
| debian-sys-maint | *FA4AA9CA9EB80C37A60161883FA532E4BAECFBD6 | mysql_native_password | localhost |  
| phpmyadmin    | *37D8CB1C83D74891231B220F7B5252C6FDDC92C2 | mysql_native_password | localhost |  
+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

you can see that the **root** user does in fact authenticate using the `auth_socket` plugin. To configure the **root** account to authenticate with a password, run the following `ALTER USER` command.

run `FLUSH PRIVILEGES` which tells the server to reload the grant tables and put your new changes into effect

```
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Abc@123';
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT user,authentication_string,plugin,host FROM mysql.user;
+-----+-----+-----+-----+
| user          | authentication_string          | plugin          | host          |
+-----+-----+-----+-----+
| root          | *37D8CB1C83D74891231B220F7B5252C6FDCC92C2 | mysql_native_password | localhost    |
| mysql.session | *THISISNOTAVALIDPASSWORDTHATCANBEUSEDHERE | mysql_native_password | localhost    |
| mysql.sys     | *THISISNOTAVALIDPASSWORDTHATCANBEUSEDHERE | mysql_native_password | localhost    |
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| phpmyadmin    | *37D8CB1C83D74891231B220F7B5252C6FDCC92C2 | mysql_native_password | localhost    |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)
```

## Creating Another User and give privileges

grant the user privileges to all tables within the database, as well as the power to add, change, and remove user privileges for the “cohdse182f-005” user

```
mysql> CREATE USER 'cohdse182f-005'@'localhost' IDENTIFIED BY 'Abc@123';
Query OK, 0 rows affected (0.00 sec)

mysql> GRANT ALL PRIVILEGES ON *.* TO 'cohdse182f-005'@'localhost' WITH GRANT OPTION;
Query OK, 0 rows affected (0.00 sec)
```

## Connect php to the Mysql

```
<?php
if (isset($_POST["txtuname"]))
{
    $uname = $_POST["txtuname"];
    $pword = $_POST["txtpw"];

    $con = mysqli_connect("localhost","root","Abc@123");
    mysqli_select_db($con,"testDB");
    $sql = "SELECT * FROM tbl_student WHERE uname='$uname' AND pword='$pword'";
    $result = mysqli_query($con,$sql);

    if($row = mysqli_fetch_array($result))
    {
        session_start();
        $_SESSION["UName"] = $uname;
        $_SESSION['LAST_ACTIVITY'] = time();
        header("Location:index.php");
    }
    else
    {
        echo "Invalid Username or Password !!!";
    }

    mysqli_close($con);
}
?>

<html>
<head><title>Login Page</title>
```

```
</head>
```

```
<body>
```

```
  <form name="frmlogin" method="post" action="#">
```

```
    User name : <input type="text" name="txtuname"/><br>
```

```
    Password : <input type="password" name="txtpw"/><br>
```

```
      <input type="submit" name="btnsubmit" value="Login"/>
```

```
      <input type="reset" name="btnreset" value="Reset"/>
```

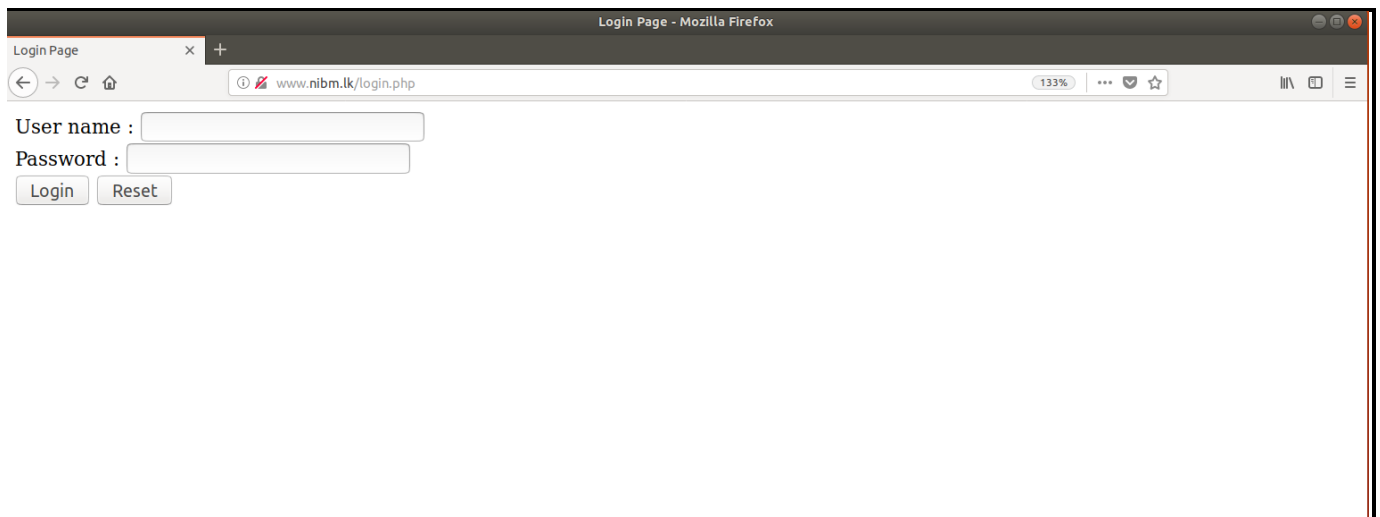
```
  </form>
```

```
</body>
```

```
</html>
```

## Finally go with the browser

### 1.Interface

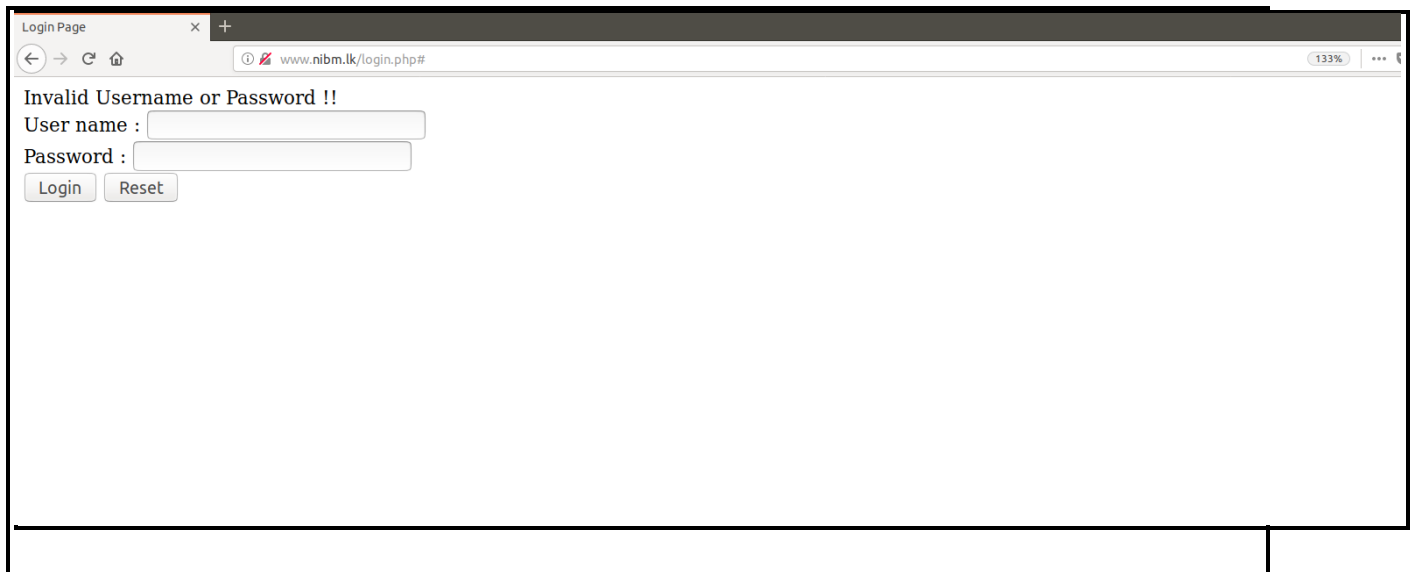


2. When enter wrong username or password



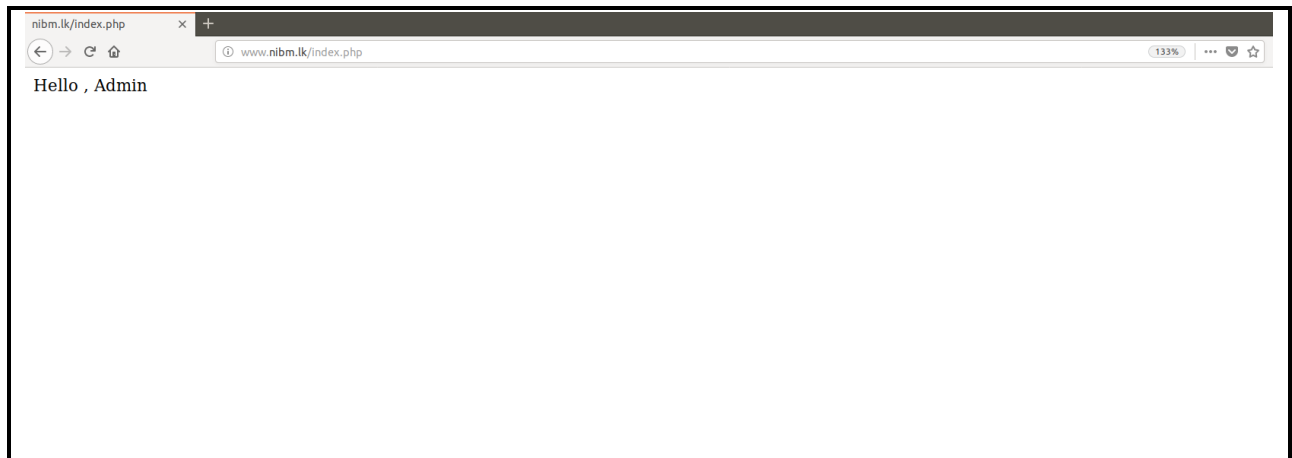
A screenshot of a web browser window showing a login page. The browser's address bar displays "www.nibm.lk/login.php". The page has a title "Login Page". It contains two input fields: "User name :" with the text "Admin" entered, and "Password :" with a single dot "•" entered. Below these fields are two buttons: "Login" and "Reset".

It shows an error on the top



A screenshot of the same login page, but now it displays an error message at the top: "Invalid Username or Password !!". The "User name :" field is empty, and the "Password :" field contains a single dot "•". The "Login" and "Reset" buttons remain below the fields.

### 3. Correct username and password



When it match with username and password in the database, index page show the User entered Username passed as a session in the login page.