

# Assignment on LAMP

1. Install Oracle VirtualBox
2. Install Vagrant
3. Create a CentOS guest Machine

```
mkdir -p ~/vagrant/centos7
```

```
cd ~/vagrant/centos7
```

```
vagrant init centos/7; vagrant up --provider virtualbox
```

Above Step will take a lot of time as it will download files from internet

```
vagrant status
```

```
vagrant ssh
```

4. Install Apache on that

```
sudo su
```

```
yum install httpd httpd-devel
```

```
service httpd start
```

**in VagrantFile Uncomment config.vm.network "forwarded\_port", guest: 80, host: 8080**

```
vagrant reload
```

5. Install MySQL

```
yum install mysql mysql-devel wget
```

```
wget http://repo.mysql.com/mysql-community-release-el7-5.noarch.rpm
```

```
sudo rpm -ivh mysql-community-release-el7-5.noarch.rpm
```

```
yum update
```

```
sudo yum install mysql-server
```

```
sudo systemctl start mysqld
```

```
mysql
```

```
mysql> USE mysql;
```

```
mysql> UPDATE user SET Password=PASSWORD('newpassword') WHERE user='root';
```

```
mysql> FLUSH PRIVILEGES;
```

```
mysql> quit;
```

```
mysql -u root -p
```

```
Enter Password: newpassword
```

6. Create Database tables

```
mysql> create database test;
```

```
mysql> use test;
```

```
mysql> CREATE TABLE IF NOT EXISTS `user` (  
-> `id` int(11) NOT NULL AUTO_INCREMENT,  
-> `username` varchar(255) NOT NULL,  
-> `email` varchar(255) NOT NULL,
```

```
-> `password` varchar(255) NOT NULL,
-> PRIMARY KEY (`id`),
-> UNIQUE KEY `username` (`username`)
-> );
```

```
mysql> select * from user;
Empty set (0.00 sec)
```

```
mysql>quit;
```

## 7. Install PHP

```
yum install php php-mysql php-common php-gd php-mbstring php-mcrypt php-devel php-xml
service httpd restart
chkconfig httpd on
chkconfig mysqld on
```

8. Create following files in /var/www/html

9. Register.php with below content

```
<div class="container">
<form class="form-signin" method="POST">
  <h2 class="form-signin-heading">Please Register</h2>
  <div class="input-group">
    <span class="input-group-addon" id="basic-addon1">@</span>
    <input type="text" name="username" class="form-control" placeholder="Username"
required>
  </div>
  <label for="inputEmail" class="sr-only">Email address</label>
  <input type="email" name="email" id="inputEmail" class="form-control"
placeholder="Email address" required autofocus>
  <label for="inputPassword" class="sr-only">Password</label>
  <input type="password" name="password" id="inputPassword" class="form-control"
placeholder="Password" required>
  <button class="btn btn-lg btn-primary btn-block" type="submit">Register</button>
  <a class="btn btn-lg btn-primary btn-block" href="login.php">Login</a>
</form>
</div>
```

10. connect.php with below content

```
<?php
$connection = mysqli_connect('localhost', 'root', 'newpassword');
if (!$connection){
  die("Database Connection Failed" . mysqli_error($connection));
}
$select_db = mysqli_select_db($connection, 'test');
if (!$select_db){
  die("Database Selection Failed" . mysqli_error($connection));
}
?>
```

11. Register.php with below content

```
<?php
    require('connect.php');
    // If the values are posted, insert them into the database.
    if (isset($_POST['username']) && isset($_POST['password'])) {
        $username = $_POST['username'];
        $email = $_POST['email'];
        $password = $_POST['password'];

        $query = "INSERT INTO `user` (username, password, email) VALUES ('$username',
'password', '$email')";
        $result = mysqli_query($connection, $query);
        if($result){
            $smmsg = "User Created Successfully.";
        }else{
            $fmsg = "User Registration Failed";
        }
    }
?>
<html>
<head>
    <title>User Registration Using PHP & MySQL</title>

<!-- Latest compiled and minified CSS -->
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" >

<!-- Optional theme -->
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap-theme.min.css" >

<link rel="stylesheet" href="styles.css" >

<!-- Latest compiled and minified JavaScript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
    <form class="form-signin" method="POST">

        <?php if(isset($smmsg)){ ?><div class="alert alert-success" role="alert"> <?php echo
$smmsg; ?> </div><?php } ?>
        <?php if(isset($fmsg)){ ?><div class="alert alert-danger" role="alert"> <?php echo $fmsg;
?> </div><?php } ?>
        <h2 class="form-signin-heading">Please Register</h2>
```

```

    <div class="input-group">
        <span class="input-group-addon" id="basic-addon1">@</span>
        <input type="text" name="username" class="form-control" placeholder="Username"
required>
    </div>
    <label for="inputEmail" class="sr-only">Email address</label>
    <input type="email" name="email" id="inputEmail" class="form-control"
placeholder="Email address" required autofocus>
    <label for="inputPassword" class="sr-only">Password</label>
    <input type="password" name="password" id="inputPassword" class="form-control"
placeholder="Password" required>
    <div class="checkbox">
        <label>
            <input type="checkbox" value="remember-me"> Remember me
        </label>
    </div>
    <button class="btn btn-lg btn-primary btn-block" type="submit">Register</button>
    <a class="btn btn-lg btn-primary btn-block" href="login.php">Login</a>
</form>
</div>

</body>

</html>

```

12. Try registering with 3 Users at <http://localhost:8080/Register.php>
13. Automate using IDE for Registration of User 4

You will be using Linux commands while doing this exercise.

1. Please submit last 10 lines of `/var/log/httpd/error_log` and `/var/log/httpd/access_log`
2. Screenshot of <http://localhost:8080/Register.php> showing “User Created Successfully” message in Green
3. Select \* from user; at mysql prompt
4. TestCase saved in Selenium IDE