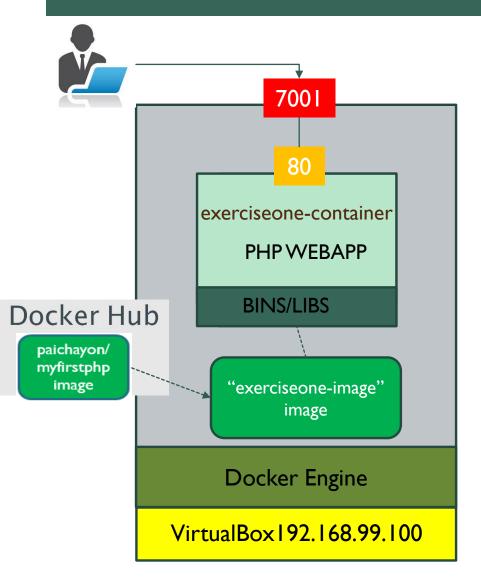
DOCKER EXERCISE

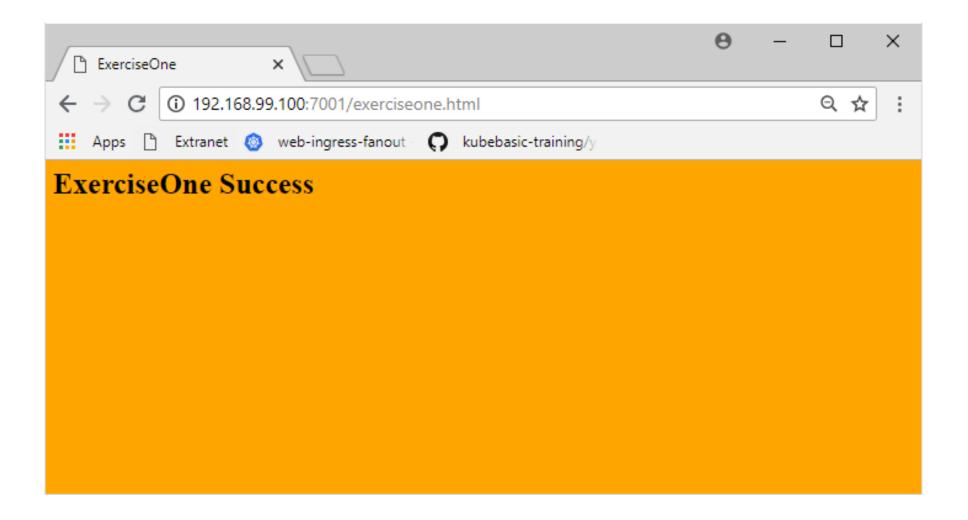
EXERCISE I: CREATE IMAGE AND RUN CONTAINER (15 MIN)



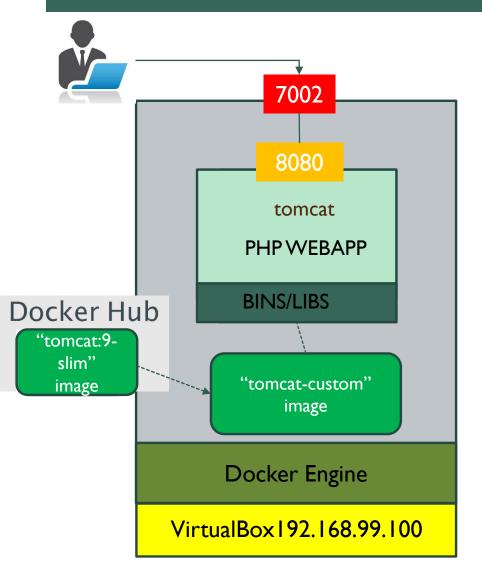
1. Create new html file name "exerciseone.html" with content below:

```
<html><head><title>ExerciseOne</title></head>
<body bgcolor=orange>
<h1>ExerciseOne Success</h1>
</body>
</html>
```

- 2. Build new docker image name "exerciseone-image:latest" from base images name "paichayon/myfirstphp:latest" and ADD execiseone.html file
- 3. Run Container name "**exerciseone-container**" with access port **7001**
- 4. After run success, Remove container and image



EXERCISE 2: CREATE CUSTOM TOMCAT IMAGE(30 MIN)



- 1. Run container from tomcat:9-slim image docker run -d --name tomcat -p 7002:8080 tomcat:9-slim
- 2. Modify or replace file "/usr/local/tomcat/conf/tomcat-users.xml" with content below in tomcat container:

```
<role rolename="manager-gui"/>
<role rolename="manager"/>
<role rolename="manager-script"/>
<role rolename="admin-gui"/>
<user username="admin" password="admin123" roles="manager-gui,manager-script,admin-gui,manager"/>
```

3. Modify or replace file "/usr/local/tomcat/webapps/manager/META-INF/context.xml" with content below in tomcat container:

```
<Valve className="org.apache.catalina.valves.RemoteAddrValve" allow="\d+\.\d+\.\d+\.\d+"/>
```

- 4. Create new docker image name "**tomcat-custom:latest**" from tomcat container
- 5. Run container name "tomcat" and access port **7002** with tomcat-custom:latest image
- 6. Access Server status page with user admin

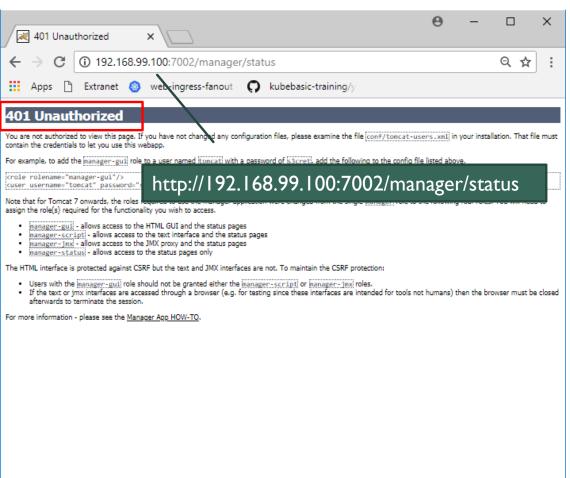
tomcat-users.xml →

```
NOTE: The sample user and role entries below are intended for use with the
  examples web application. They are wrapped in a comment and thus are ignored
  when reading this file. If you wish to configure these users for use with the
  examples web application, do not forget to remove the <!...> that surrounds
  them. You will also need to set the passwords to something appropriate.
 <role rolename="tomcat"/>
 <role rolename="role1"/>
  <user username="tomcat" password="<must-be-changed>" roles="tomcat"/>
  <user username="both" password="<must-be-changed>" roles="tomcat,role1"/>
 <user username="role1" password="<must-be-changed>" roles="role1"/>
<role rolename="manager-gui"/>
<role rolename="manager"/>
<role rolename="manager-script"/>
<role rolename="admin-gui"/>
<user username="admin" password="admin123" roles="manager-gui,manager-script,admin-gui,manager"/>
</tomcat-users>
```

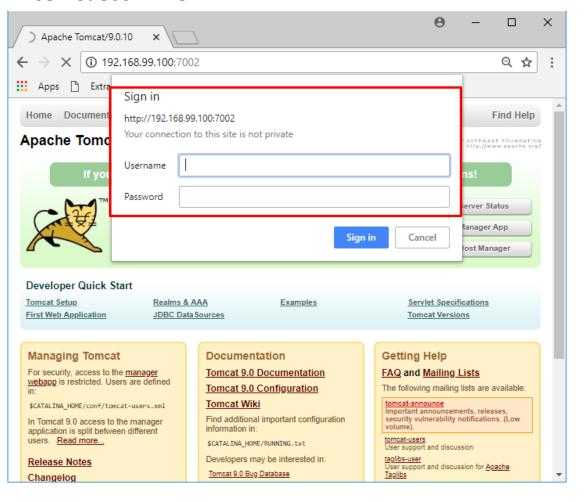
context.xml →

RESULT

Before customize



After customize



Hint: Use docker volume and busy box to solve this exercise