# Deploying Spring Boot application on external Tomcat Server

Steps to be follow to deploy the Spring Boot application on an external tomcat.

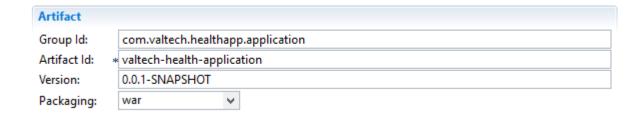
### **Steps:**

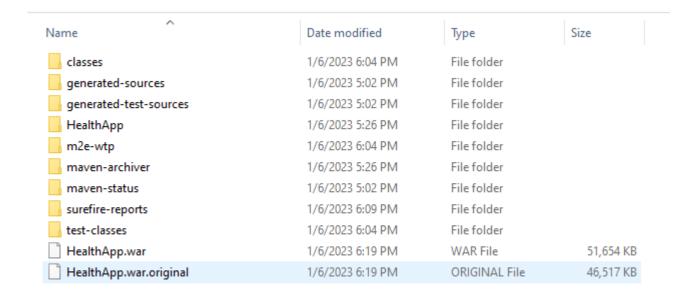
1. Add dependency in **pom.xml** to exclude embedded tomcat so that we can further deploy our war file on external tomcat.

2. Define SpringMain class by extending SpringBootServletInitializer class and override configure () method.

```
1 package com.valtech.health.app;
  3⊕ import org.springframework.boot.SpringApplication; [
  8 @SpringBootApplication
  9 public class HealthAppApplication extends SpringBootServletInitializer {
         public static void main(String[] args) {
 12
             SpringApplication.run(HealthAppApplication.class, args);
 13
 14
 15⊝
        @Override
        protected SpringApplicationBuilder configure(SpringApplicationBuilder application) {
<del>^</del>16
 17
            return application.sources(HealthAppApplication.class);
 18
 19
20 }
```

3. Mention war as packaging and build the .war file application using maven build command.



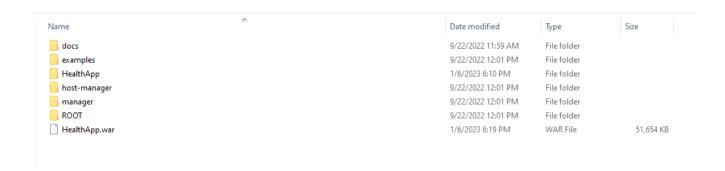


**Note:** . War file is located in target folder

### 4. Download the tomcat 8.5 and extract it.

lame	Date modified	Type	Size
bin bin	1/6/2023 5:38 PM	File folder	
conf	1/4/2023 5:26 PM	File folder	
lib	9/22/2022 11:59 AM	File folder	
logs	1/6/2023 5:38 PM	File folder	
temp	9/22/2022 11:59 AM	File folder	
webapps	1/6/2023 6:18 PM	File folder	
work	1/4/2023 5:26 PM	File folder	
BUILDING	8/8/2022 7:26 AM	Text Document	21 KE
CONTRIBUTING	8/8/2022 7:26 AM	Markdown Source	7 KE
LICENSE	8/8/2022 7:26 AM	File	57 KE
NOTICE	8/8/2022 7:26 AM	File	2 KE
README	8/8/2022 7:26 AM	Markdown Source	4 KE
RELEASE-NOTES	8/8/2022 7:26 AM	File	8 KE
RUNNING	8/8/2022 7:26 AM	Text Document	17 KB

## 5. Keep the war file in webapps folder.



6. Run the startup file(Windows Batch file) in bin folder.

logger	1/6/2023 6:13 PM	Text Document	33 KB
logger.log.2023-01-04.0.gz	1/6/2023 5:38 PM	GZ File	4 KB
service	8/8/2022 7:26 AM	Windows Batch File	9 KB
setclasspath	8/8/2022 7:26 AM	Windows Batch File	4 KB
setclasspath	8/8/2022 7:26 AM	Shell Script	4 KB
shutdown	8/8/2022 7:26 AM	Windows Batch File	2 KB
shutdown	8/8/2022 7:26 AM	Shell Script	2 KB
startup	8/8/2022 7:26 AM	Windows Batch File	2 KB
startup	8/8/2022 7:26 AM	Shell Script	2 KB
tcnative-1.dll	8/8/2022 7:26 AM	Application exten	2,552 KB
tomcat8	8/8/2022 7:26 AM	Application	140 KB
tomcat8w	8/8/2022 7:26 AM	Application	124 KB

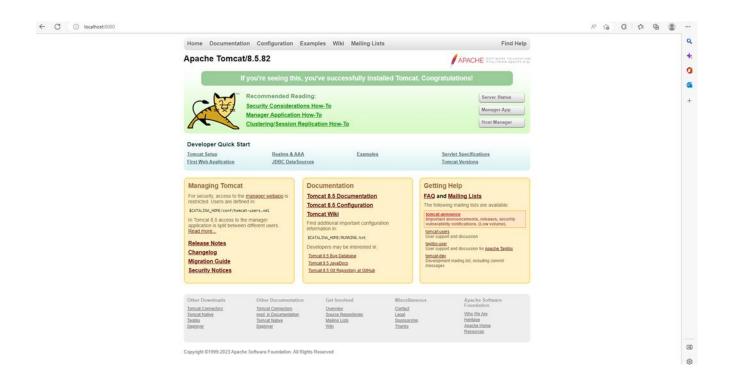
7. Configure the tomcat-users file in conf file, add the users to manage the deployment.

```
The users below are wrapped in a comment and are therefore ignored. If you wish to configure one or more of these users for use with the manager web application, do not forget to remove the <!...> that surrounds them. You will also need to set the passwords to something appropriate.
```

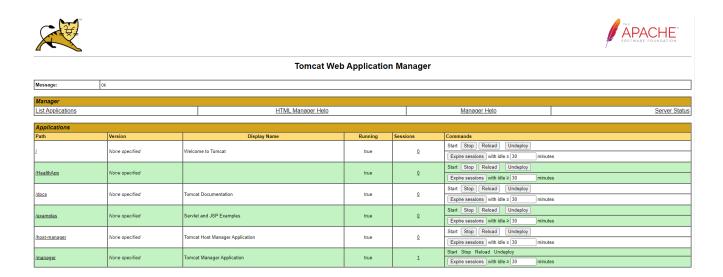
```
<user username="admin" password="admin" roles="manager-gui"/>
<user username="robot" password="robot" roles="manager-script"/>
```

8. You can start the tomcat server using command startup.bat

9. Open browser and type localhost:8080 to open Apache Tomcat/8.5.82 dashboard.



10. Click on manage apps and start the spring application on tomcat server.



11. Click on the application URL / HealthApp (i.e. war file name in webapps), mention application home URL <a href="http://localhost:8080/">http://localhost:8080/</a> HealthApp /home

## Finally, the application is deployed on External Tomcat server.

# Prerequisites to be followed to deploy in tomcat.

- Make sure you add the tomcat dependency in pom.xml.
- Then build the .war file and that will be created in target folder and You can name that war file using <a href="mailto:single-finalName">finalName</a> HealthApp <a href="mailto:single-finalName">finalName</a> in pom.xml inside build tag.
- The URL <a href="http://localhost:8080/">http://localhost:8080/</a> HealthApp <a href="http://localhost:8080/">home</a> here HealthApp is the name of the war file.