

17 佈署Spring Boot到Tomcat





第十七單元大綱

17-1 pom packaging設定war

17-2 進行包裝設定

17-3 佈署系統

17-4 單元測驗



17-1 pom packaging 設定war



切入專案資料夾

執行mvnw clean package

包裝jar 於Target資料夾中

系統管理員: 命令提示字元

C:\Tiame 2022線上錄播\使用Spring Boot 實現微服務\sample\myweb>dir/w

磁碟區 C 中的磁碟是 Windows

磁碟區序號: 5A09-35EB

C:\Tiame 2022線上錄播\使用Spring Boot 實現微服務\sample\myweb 的目錄

.	..	.classpath	.gitignore	[.mvn]	.project	[.settings]	HELP.md	mvnw
mvnw.cmd	pom.xml	[src]	[target]					
	7 個檔案		23,862 位元組					
	6 個目錄	1,642,744,188,928 位元組可用						

C:\Tiame 2022線上錄播\使用Spring Boot 實現微服務\sample\myweb>

```
系統管理員: mvnw
C:\Tibame 2022線上錄播\使用Spring Boot 實現微服務\sample\myweb>mvnw clean package
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.tibame:myweb >-----
[INFO] Building myweb 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.2.0/maven-clean-plugin-3.2.0.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.2.0/maven-clean-plugin-3.2.0.pom (5.3 kB at 3.1 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/35/maven-plugins-35.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/35/maven-plugins-35.pom (9.9 kB at 16 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/35/maven-parent-35.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/35/maven-parent-35.pom (45 kB at 48 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/25/apache-25.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/25/apache-25.pom (21 kB at 31 kB/s)
[INFO] --- maven-clean-plugin:3.2.0:clean (default-clean) @ myweb ---
```

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/checkerframework/checker-qual/2.5.5/checker-qual-2.5.5.jar (5.9 kB at 1.8 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/google/errorprone/error_prone_annotations/2.3.4/error_prone_annotations-2.3.4.jar (14 kB at 4.2 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/google/j2objc/j2objc-annotations/1.3/j2objc-annotations-1.3.jar (8.8 kB at 2.5 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/google/guava/guava/28.2-android/guava-28.2-android.jar (2.6 MB at 734 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-lang3/3.7/commons-lang3-3.7.jar (500 kB at 132 kB/s)
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 48.862 s
[INFO] Finished at: 2022-09-21T22:51:49+08:00
[INFO]
```

```
2022-09-21 22:51:27.626 INFO 32268 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'
```

```
[INFO]
```

```
[INFO] Results:
```

```
[INFO]
```

```
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
```

```
[INFO]
```

```
[INFO]
```

```
[INFO] --- maven-jar-plugin:3.2.2:jar (default-jar) @ myweb ---
```

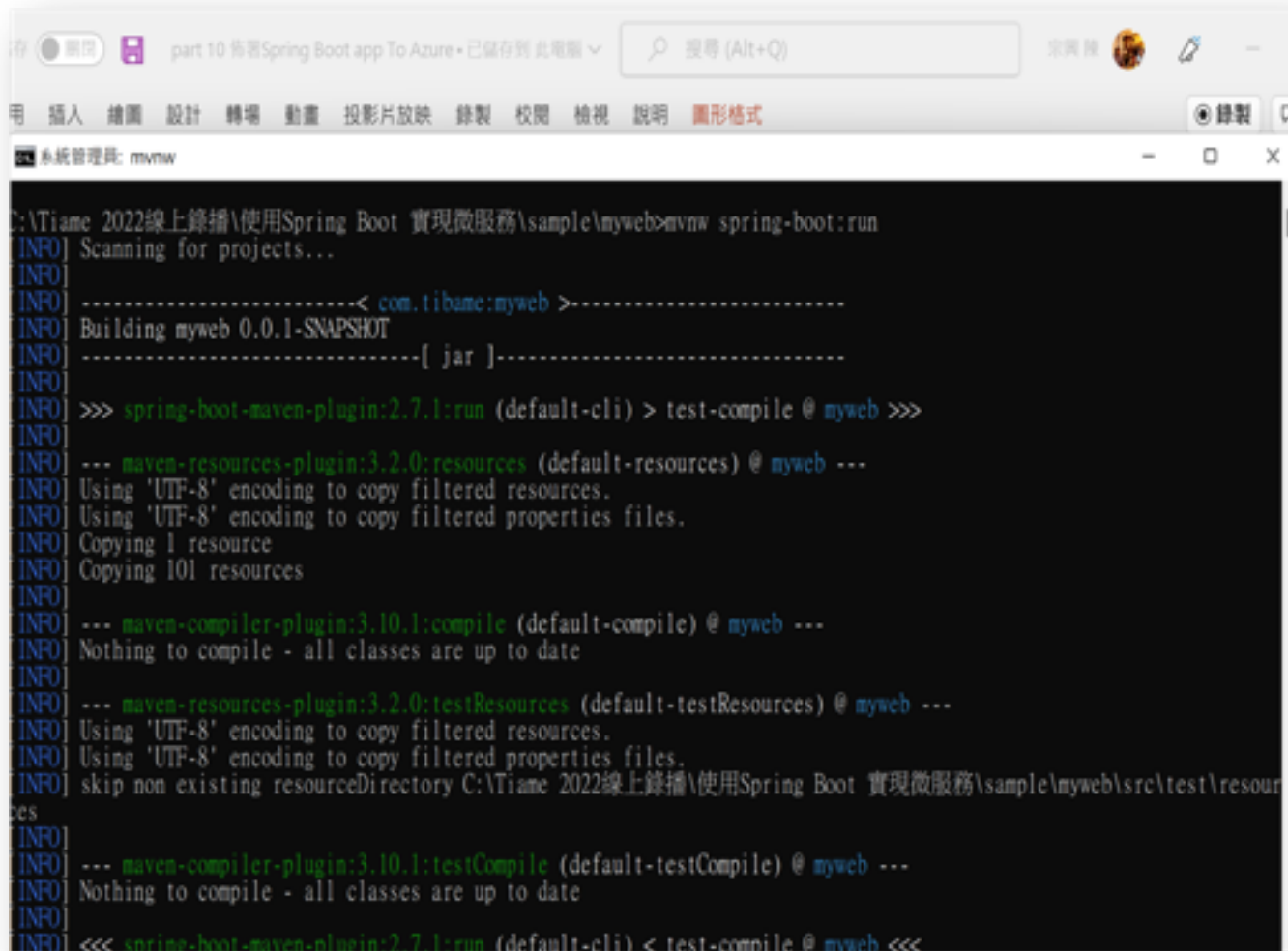
```
[INFO] Building jar: C:\Tiame 2022線上錄播\使用Spring Boot 實現微服務\sample\myweb\target\myweb-0.0.1-SNAPSHOT.jar
```

```
[INFO]
```

```
[INFO]
```

CLI命令視窗執行

mvnw spring-boot:run



```
C:\Tibame 2022線上錄播\使用Spring Boot 實現微服務\sample\myweb>mvnw spring-boot:run
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.tibame:myweb >-----
[INFO] Building myweb 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] >>> spring-boot-maven-plugin:2.7.1:run (default-cli) > test-compile @ myweb >>>
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ myweb ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 1 resource
[INFO] Copying 101 resources
[INFO]
[INFO] --- maven-compiler-plugin:3.10.1:compile (default-compile) @ myweb ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:testResources (default-testResources) @ myweb ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory C:\Tibame 2022線上錄播\使用Spring Boot 實現微服務\sample\myweb\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.10.1:testCompile (default-testCompile) @ myweb ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] <<< spring-boot-maven-plugin:2.7.1:run (default-cli) < test-compile @ myweb <<<
```


客戶查詢

UK 查詢

20
您輸入國家別:UK

客戶清單

查詢結果:
記錄數:8

操作	客戶編號	公司行號	聯絡地址	連絡電話	國家別
編輯 刪除	99991	Demo			UK
編輯 刪除	BSBEV	CHT	Fauntleroy Circus	(171) 555-1212	UK
編輯 刪除	CONSH	KHH	Berkeley Gardens 12 Brewery	(171) 555-2282	UK
編輯 刪除	DEMO	巨匠電腦			UK

修訂pom.xml

配置Packaging為war

Spring-boot-starter-tomcat配置

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www
3     xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maver
4     <modelVersion>4.0.0</modelVersion>
5     <parent>
6         <groupId>org.springframework.boot</groupId>
7         <artifactId>spring-boot-starter-parent</artifactId>
8         <version>2.7.1</version>
9         <relativePath/> <!-- lookup parent from repository -->
10    </parent>
11    <groupId>com.tibame</groupId>
12    <artifactId>myweb</artifactId>
13    <version>0.0.1-SNAPSHOT</version>
14    <name>myweb</name>
15    <description>Spring Boot Web MVC 實現微服務範例_chap3</description>
16    <packaging>war</packaging>
```

```
<!-- https://mvnrepository.com/artifact/org.springframework
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-tomcat</artifactId>
    <version>2.7.3</version>
</dependency>
```

</dependency>



總結：17-1 pom packaging設定war

學習如何Builder Jar與執行Spring Boot系統，並且配置成war進行Tomcat Start配置，接下來我們來看看如何進行Builder與佈署系統至Tomcat。

