

# **Build and Release Management LAB File**

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LAB-8

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## LAB 8:

**Aim:** Aim: Create a maven project using Build Profile.

**Procedure:**

1. Specify the build profiles in POM.xml of the maven project.

```
<groupId>com.devops.brm</groupId>
<artifactId>BRM_LAB7_MVN_PROFILE</artifactId>
<version>0.0.1-SNAPSHOT</version>
<name>BRM_LAB7_MVN_PROFILE</name>

<profiles>
  <profile>
    <id>test</id>
    <build>
      <plugins>
        <plugin>
          <groupId>org.apache.maven.plugins</groupId>
          <artifactId>maven-antrun-plugin</artifactId>
          <version>1.1</version>
          <executions>
            <execution>
              <phase>test</phase>
              <goals>
                <goal>run</goal>
              </goals>
              <configuration>
                <tasks>
                  <echo>Copying files</echo>
                  <copy file="src/main/sample.txt"
                    tofile="src/sample.txt"/>
                </tasks>
              </configuration>
            </execution>
          </executions>
        </plugin>
      </plugins>
    </build>
  </profile>
</profiles>

</project>
```

2. Now open the CLI, go the project folder containing the pom.xml and execute the following mvn command.  
mvn test -Ptest

```
C:\Windows\System32\cmd.exe
D:\eclipse\workspace\BRM_LAB7_MVN_PROFILE>mvn test -Ptest
[INFO] Scanning for projects...
[INFO] -----< com.devops.brm:BRM_LAB7_MVN_PROFILE >-----
[INFO] Building BRM_LAB7_MVN_PROFILE 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin/1.1/maven-antrun-plugin-1.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin/1.1/maven-antrun-plugin-1.1.pom (1.2 kB at 1.1 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugin-parent/2.0.1/maven-plugin-parent-2.0.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugin-parent/2.0.1/maven-plugin-parent-2.0.1.pom (7.4 kB at 22 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin/1.1/maven-antrun-plugin-1.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin/1.1/maven-antrun-plugin-1.1.jar (12 kB at 30 kB/s)
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ BRM_LAB7_MVN_PROFILE ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ BRM_LAB7_MVN_PROFILE ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ BRM_LAB7_MVN_PROFILE ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ BRM_LAB7_MVN_PROFILE ---
[INFO] Surefire report directory: D:\eclipse\workspace\BRM_LAB7_MVN_PROFILE\target\surefire-reports
[INFO] Using the default forked execution mode.
[INFO] Executing the test.
[INFO] Running com.devops.brm.Main
[INFO] [echo] Copying files
[INFO] [copy] Copying 1 file to D:\eclipse\workspace\BRM_LAB7_MVN_PROFILE\src
[INFO] Executed tasks
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 9.207 s
[INFO] Finished at: 2021-04-01T10:39:15+05:30
[INFO] -----
D:\eclipse\workspace\BRM_LAB7_MVN_PROFILE>
```

3. Now open the “\src” folder of the project and we can find the text file we created in “\src\main” folder copied into “\src” folder

> This PC > DATA (D:) > eclipse > eclipse\_workspace > BRM\_LAB7\_MVN\_PROFILE > src

Name	Date modified	Type	Size
main	01-04-2021 10:21	File folder	
test	01-04-2021 10:19	File folder	
sample.txt	01-04-2021 10:39	Text Document	0 KB

4. We can also add Active Profiles in “settings.xml” file in which is present in C:\Users\<user\_name>\.m2 folder. Open the file and add the following active profile:

```
<activeProfiles>
```

```
  <activeProfile>test</activeProfile>
```

```
</activeProfiles>
```

Home Share View

> This PC > OS (C:) > Users > Soma Sekhar > .m2

Name	Date modified	Type	Size
repository	01-04-2021 10:39	File folder	
settings.xml	03-06-2021 11:07	XML Document	0 KB

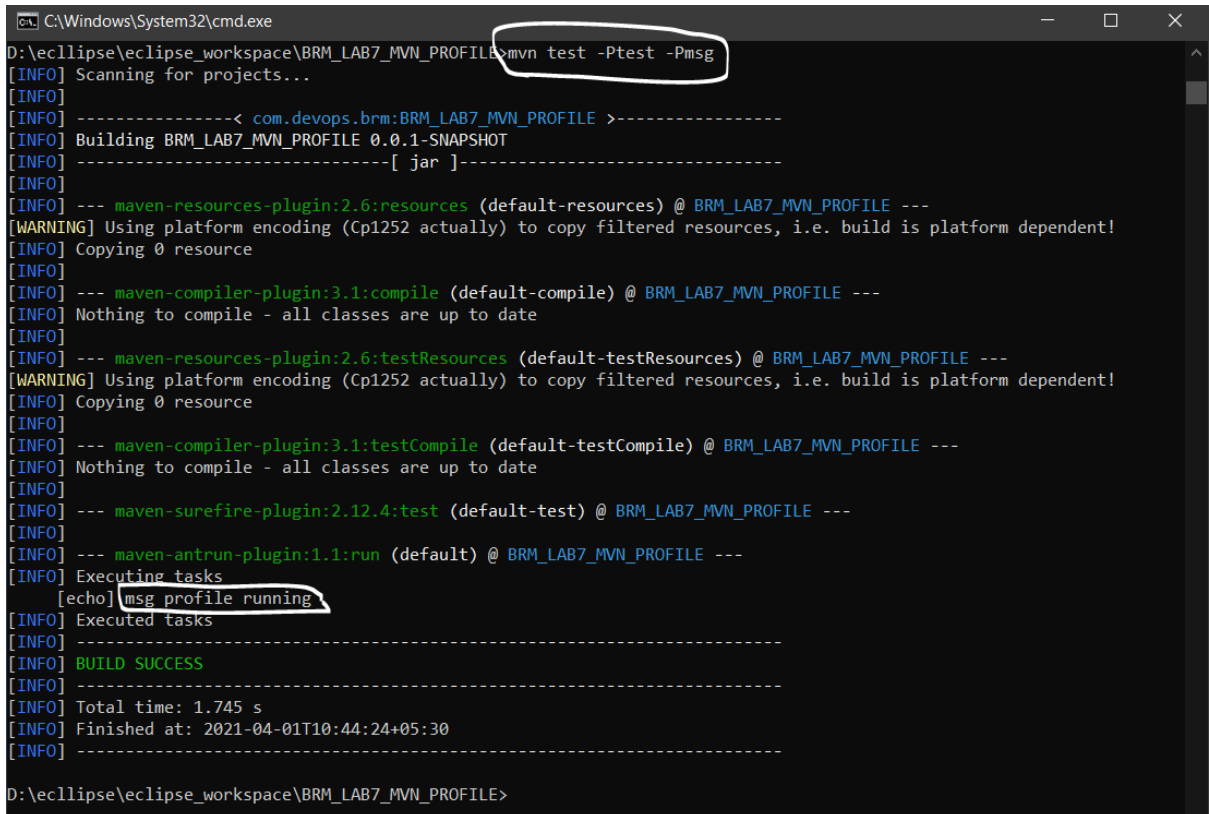
```

1  <settings xmlns = "http://maven.apache.org/POM/4.0.0"
2    xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
3    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
4    http://maven.apache.org/xsd/settings-1.0.0.xsd">
5    <mirrors>
6      <mirror>
7        <id>maven.dev.snaponglobal.com</id>
8        <name>Internal Artifactory Maven repository</name>
9        <url>http://repo1.maven.org/maven2/</url>
10       <mirrorOf>*</mirrorOf>
11      </mirror>
12    </mirrors>
13    <activeProfiles>
14      <activeProfile>test</activeProfile>
15      <activeProfile>msg</activeProfile>
16    </activeProfiles>
17  </settings>

```

5. Now run we can run the multiple build profiles and simply write the following:

`mvn test -P<profile> -P<profile>`



```
C:\Windows\System32\cmd.exe
D:\eclipse\workspace\BRM_LAB7_MVN_PROFILE>mvn test -Ptest -Pmsg
[INFO] Scanning for projects...
[INFO] -----< com.devops.brm:BRM_LAB7_MVN_PROFILE >-----
[INFO] Building BRM_LAB7_MVN_PROFILE 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ BRM_LAB7_MVN_PROFILE ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ BRM_LAB7_MVN_PROFILE ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ BRM_LAB7_MVN_PROFILE ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ BRM_LAB7_MVN_PROFILE ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ BRM_LAB7_MVN_PROFILE ---
[INFO] --- maven-antrun-plugin:1.1:run (default) @ BRM_LAB7_MVN_PROFILE ---
[INFO] Executing tasks
[echo] msg profile running
[INFO] Executed tasks
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 1.745 s
[INFO] Finished at: 2021-04-01T10:44:24+05:30
[INFO] -----
D:\eclipse\workspace\BRM_LAB7_MVN_PROFILE>
```

**Result:** Hence we successfully created and build a maven project with Build Profiles