

BRM LAB

LAB 8

1st APRIL

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DevOps 2nd Year

Aim: Build Profile Using Maven

→Run maven install to check if the project is working correctly.

```
C:\Users\Sahil Bansal\workspace>mv-app\mv-app install
[INFO] Scanning for projects...
[INFO]
[INFO] -----[ com.devops.upes.my-app ]-----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ mv-app ---
[INFO] Using "UTF-8" encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\Users\Sahil Bansal\workspace\my-app\src/main/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.0.0:compile (default-compile) @ mv-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ mv-app ---
[INFO] Using "UTF-8" encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\Users\Sahil Bansal\workspace\my-app\src/test/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.0.0:testCompile (default-testCompile) @ mv-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ mv-app ---
[INFO]
[INFO] -----T E S T S-----
[INFO] Running com.devops.upes.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Time elapsed: 0.056 s - in com.devops.upes.AppTest
[INFO] Results:
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ mv-app ---
[INFO] Building jar C:\Users\Sahil Bansal\workspace\my-app\target\my-app-1.0-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:3.0.2:install (default-install) @ mv-app ---
[INFO] Installing C:\Users\Sahil Bansal\workspace\my-app\target\my-app-1.0-SNAPSHOT.jar to C:\Users\Sahil Bansal\.m2\repository\com\devops\upes\my-app\1.0-SNAPSHOT\my-app-1.0-SNAPSHOT.jar
[INFO] Installing C:\Users\Sahil Bansal\workspace\my-app\pom.xml to C:\Users\Sahil Bansal\.m2\repository\com\devops\upes\my-app\1.0-SNAPSHOT\my-app-1.0-SNAPSHOT.pom
[INFO] BUILD SUCCESS
[INFO] Total time: 7.470 s
[INFO] Finished at: 2021-04-18T20:57:28+05:30
[INFO]
```

→Editing pom.xml file to add the profile

```

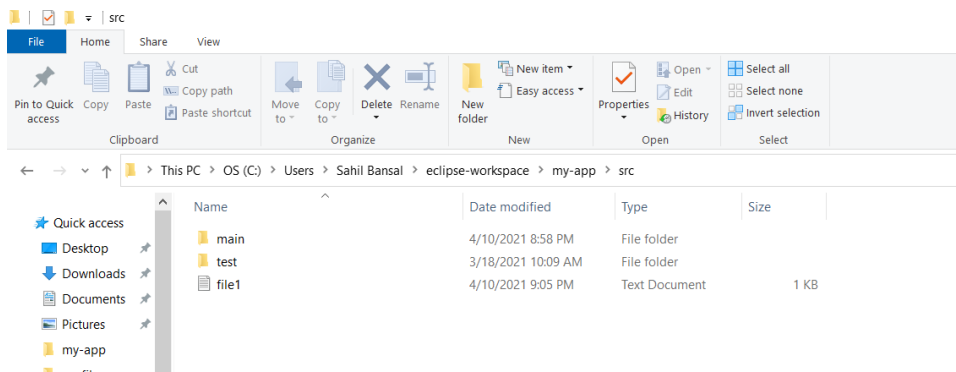
<?xml version='1.0' encoding='UTF-8'?>
<project xmlns='http://maven.apache.org/POM/4.0.0' xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance' xsi:schemaLocation='http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd'>
  <modelVersion>4.0.0</modelVersion>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-antrun-plugin</artifactId>
  <version>1.1</version>
  <executions>
    <execution>
      <phase>test</phase>
      <goals>
        <goal>run</goal>
      </goals>
      <configuration>
        <tasks>
          <task>
            <echo>compiling files</echo>
            <copy file='src/main/file1.txt' tofile='src/file1.txt' />
          </task>
        </tasks>
      </configuration>
    </execution>
  </executions>
</plugin>
</plugins>
</build>
</profile>
</profiles>
</project>

```

→Running the command mvn test -Ptest

```
Administrator Command Prompt
C:\Users\Sahil Bansal\workspace\my-app> mvn test -Ptest
[INFO] Scanning for projects...
[INFO]
[INFO] <com.devops:my-app>
[INFO] Building my-app 1.0-SNAPSHOT
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\Users\Sahil Bansal\workspace\my-app\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ my-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\Users\Sahil Bansal\workspace\my-app\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ my-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ my-app ---
[INFO]
[INFO] T E S T S
[INFO]
[INFO] Running com.devops:AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.004 s - in com.devops:AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-install-plugin:1.1.0:install (default) @ my-app ---
[INFO] Installing C:\Users\Sahil Bansal\workspace\my-app\src\main\resources\file1 to C:\Users\Sahil Bansal\workspace\my-app\src
[INFO]
[INFO] echo copying files
[INFO] [copy] Copying 1 file to C:\Users\Sahil Bansal\workspace\my-app\src
[INFO]
[INFO] Executed tasks
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 3.400 s
[INFO] Finished at: 2021-04-10T21:05:45+05:30
[INFO]
C:\Users\Sahil Bansal\workspace\my-app>
```

- We get build success
- We get an echo message saying “copied files”
- The file is also copied to the src folder.



→Adding two profiles, test and newtest. test is used for copying files and newtest is used for displaying a message.

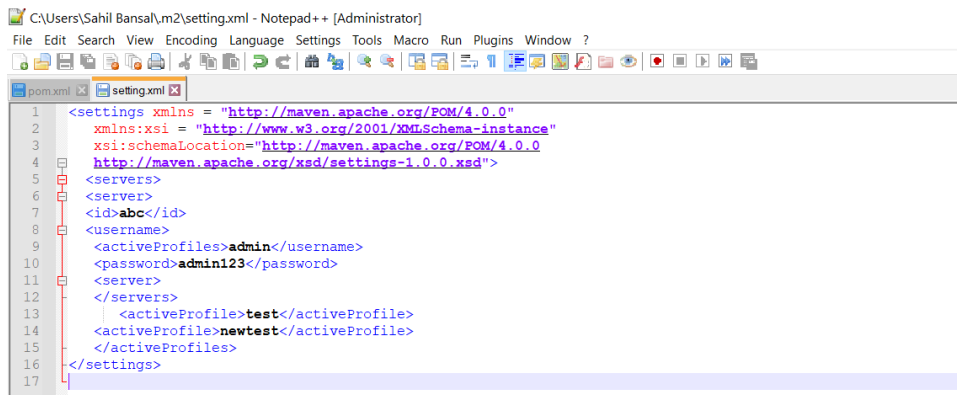
```
<?xml version='1.0' encoding='UTF-8'>
<project xmlns='http://maven.apache.org/POM/4.0.0' xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance' xsi:schemaLocation='http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd'>
<modelVersion>4.0.0</modelVersion>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-antrun-plugin</artifactId>
<version>1.0-SNAPSHOT</version>
<executions>
<execution>
<phase>test</phase>
<goals>
<goal>run</goal>
</goals>
</execution>
</executions>
<configuration>
<tasks>
<task>
<echo>copied Files</echo>
<copy file='src/main/file1.txt' tofile='src/test/file1.txt'/>
</task>
</tasks>
</configuration>
</execution>
</executions>
</plugin>
</build>
</profile>
<profile>
<id>newtest</id>
<build>
<plugins>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-antrun-plugin</artifactId>
<version>1.0-SNAPSHOT</version>
<executions>
<execution>
<phase>test</phase>
<goals>
<goal>run</goal>
</goals>
</execution>
</executions>
<configuration>
<tasks>
<task>
<echo>copied Files</echo>
<copy file='src/main/file1.txt' tofile='src/main/file1.txt'/>
</task>
</tasks>
</configuration>
</execution>
</executions>
</plugin>
</build>
</profile>
</profiles>
</project>
```

→Running the command mvn test -Ptest -Pnewtest

```
C:\Users\Sahil Bansal\workspace\my-app>mvn test -Ptest -Pnewtest
[INFO] Scanning for projects...
[INFO]
[INFO] ----- com.devops.upes:my-app -----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] ----- [ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:1.0.2:resources (default-resources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\Users\Sahil Bansal\workspace\my-app\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:1.0.0:compile (default-compile) @ my-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:1.0.2:resources (default-testResources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\Users\Sahil Bansal\workspace\my-app\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:1.0.0:testCompile (default-testCompile) @ my-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ my-app ---
[INFO]
[INFO] ----- T E S T S -----
[INFO] Running com.devops.upes.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.031 s - in com.devops.upes.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-antrun-plugin:1.1:run (default) @ my-app ---
[INFO] Executing tasks
[INFO] [echo] copied Files
[INFO] Executed tasks
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 2.662 s
[INFO] Finished at: 2021-04-10T21:33:11+05:30
[INFO]
```

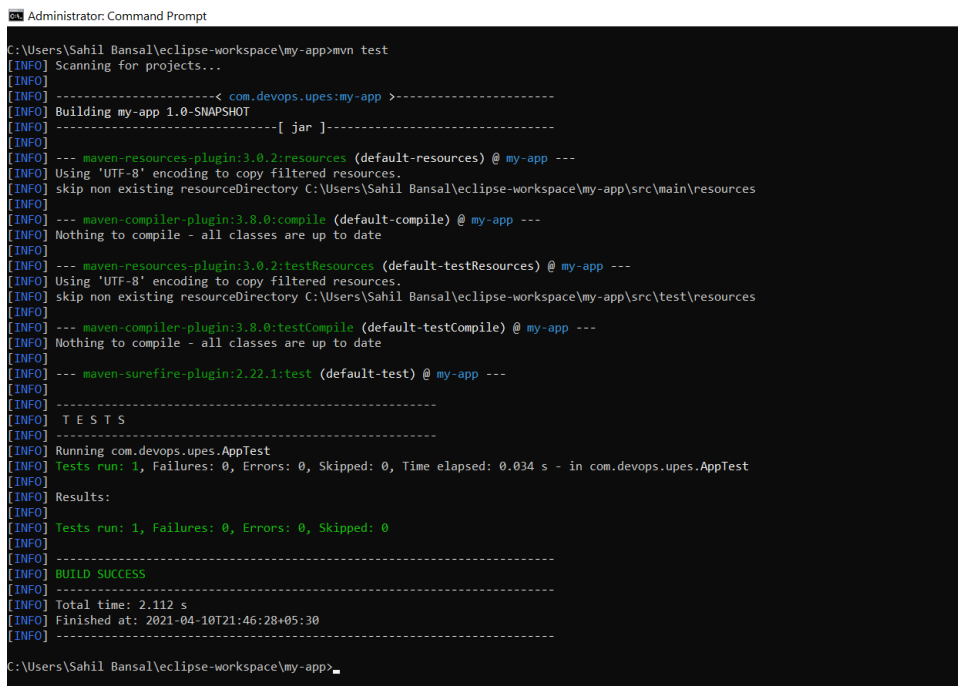
- We get build success
- We get an echo message saying “copied Files” through the newtest profile
- The file is also copied to the src folder which is done using the test profile

→Adding our profiles as active profiles in
%USER_HOME%/.m2/ setting.xml



```
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   <servers>
6     <server>
7       <id>abc</id>
8       <username>
9         <activeProfiles>admin</activeProfile>
10        <password>admin123</password>
11      </server>
12    </servers>
13    <activeProfile>test</activeProfile>
14    <activeProfile>newtest</activeProfile>
15  </activeProfiles>
16 </settings>
17
```

→Running maven test, which will automatically run our active profiles



```
Administrator Command Prompt
C:\Users\Sahil Bansal\workspace\my-app>mvn test
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.devops.upes:my-app >-----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\Users\Sahil Bansal\workspace\my-app\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ my-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\Users\Sahil Bansal\workspace\my-app\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ my-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ my-app ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.devops.upes.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.034 s - in com.devops.upes.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.112 s
[INFO] Finished at: 2021-04-10T21:46:28+05:30
[INFO]
C:\Users\Sahil Bansal\workspace\my-app>
```