

```
2017-02-03 11:08:09.573 INFO 60708 --- [           main] io.spring.TasklabApplication ...
2017-02-03 11:08:09.575 INFO 60708 --- [           main] io.spring.TasklabApplication ...
: No active profile set, falling back to default profiles: default
2017-02-03 11:08:09.618 INFO 60708 --- [           main] s.c.a.AnnotationConfigApplicat...
2017-02-03 11:08:10.289 INFO 60708 --- [           main] o.s.j.e.a.AnnotationMBeanExporter
: Registering beans for JMX exposure on startup
Hello World
```

```
2017-02-03 11:08:10.299 INFO 60708 --- [           main] io.spring.TasklabApplication
: Started TasklabApplication in 0.963 seconds (JVM running for 1.287)
2017-02-03 11:08:10.299 INFO 60708 --- [           Thread-2] s.c.a.AnnotationConfigApplicat...
[Fri Feb 03 11:08:09 EST 2017]; root of context hierarchy
2017-02-03 11:08:10.301 INFO 60708 --- [           Thread-2] o.s.j.e.a.AnnotationMBeanExpor...
```

Now Let's Taskify our Boot App!

1. First lets add our dependencies to the pom.xml
2. Using your favorite editor or IDE open the pom.xml
3. We want to add the starter-task dependency along with H2 DataSource dependency.
 - a. Copy the dependencies below and paste them on Line 34 of your pom.xml .

```
<dependency>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-starter-task</artifactId>
</dependency>
<dependency>
  <groupId>com.h2database</groupId>
  <artifactId>h2</artifactId>
</dependency>
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-jdbc</artifactId>
</dependency>
```

4. Now let's enable the task
 - a. Open the
`<..>/DNDDataflow/labs/lab2/src/main/java/io/spring/TasklabApplication.java`
 - b. On Line 13 add the `@EnableTask` annotation .
 - c. If you're not using an IDE uncomment lines 6-9, so it can be imported.
5. From your shell rebuild the application and rerun the app
 - a. `mvnw clean package`
 - b. `java -jar target/tasklab-0.0.1-SNAPSHOT.jar`
6. Hmm... It looks the same, the log messages you demoed are not present. Well let's update our configuration so that we can see the log messages.
 - a. Open the
`<..>/DNDDataflow/labs/lab2/src/main/resources/application.properties`
 - b. Now let's add the following properties:


```
: Updating: TaskExecution with executionId=1 with the following {exitCode=0, endTime=Fri Feb 03 15:05:26 EST 2017, exitMessage='null', errorMessage='null'}
```

...

Extra Credit!

If you are running MySQL or other database on your laptop locally, we can test Tasks ability to create its tables in that repository and update with a Task Execution.

1. Using your favorite editor or IDE open the pom.xml
2. In this example we are going to add the MySQL (mariadb) DataSource dependency.
 - a. Note: if you are using another database you can use that database dependencies.
 - b. Copy the dependencies below and paste them on Line 46 of your pom.xml.

```
<dependency>
  <groupId>org.mariadb.jdbc</groupId>
  <artifactId>mariadb-java-client</artifactId>
</dependency>
```

3. Now let's rebuild your project
 - a. `mvnw clean package`
4. And now let's setup the environment variables for example:

```
export spring_datasource_url=jdbc:mariadb://localhost:3306/<your
database>
export spring_datasource_username=<your username>
export spring_datasource_password=<your password>
export spring_datasource_driverClassName=org.mariadb.jdbc.Driver
```

5. Now rerun the app
 - a. `java -jar target/tasklab-0.0.1-SNAPSHOT.jar`