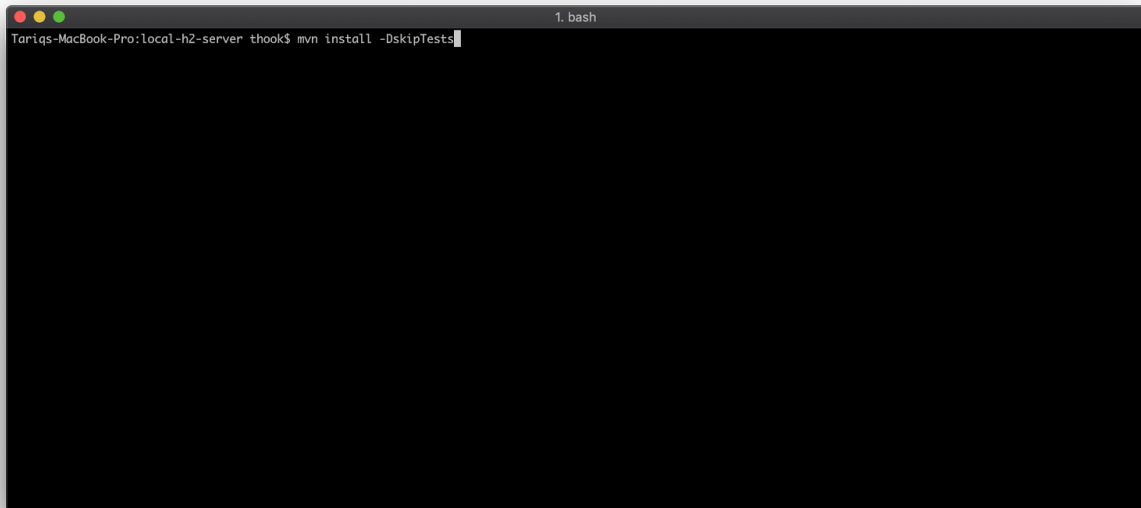


Running from Git Bash or the Command line

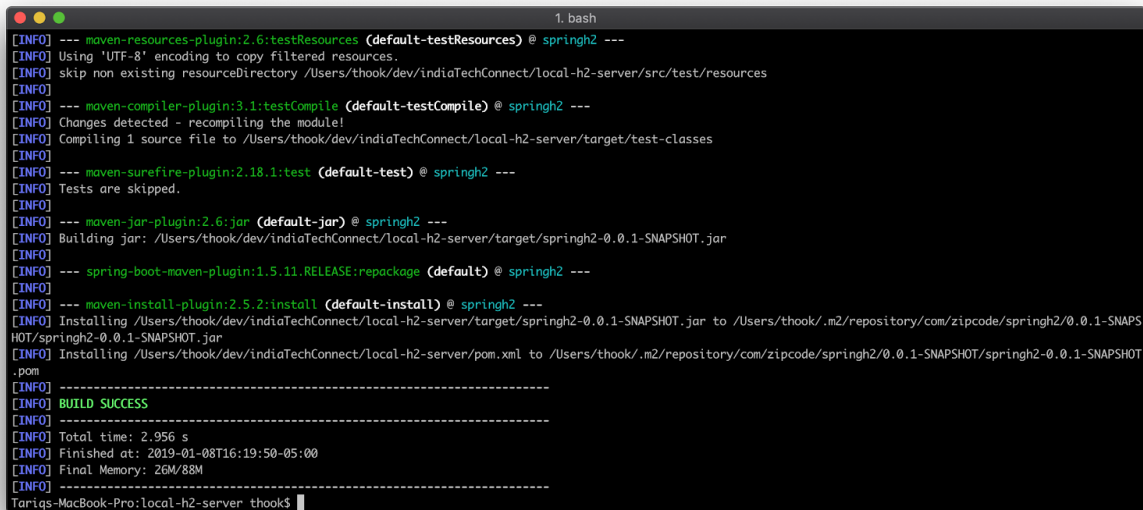
Step 1: From inside the project folder run the following Maven command to build the project.

mvn install -DskipTests



```
Tariqs-MacBook-Pro:local-h2-server thook$ mvn install -DskipTests
```

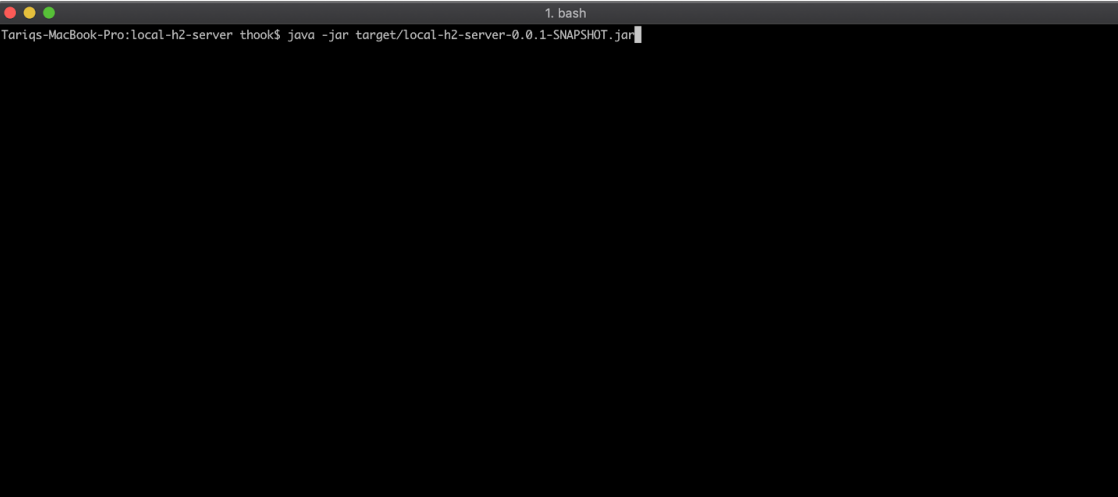
You should see the following screen when it runs successfully.



```
1. bash
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ springh2 ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory /Users/thook/dev/indiaTechConnect/local-h2-server/src/test/resources
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ springh2 ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to /Users/thook/dev/indiaTechConnect/local-h2-server/target/test-classes
[INFO] --- maven-surefire-plugin:2.18.1:test (default-test) @ springh2 ---
[INFO] Tests are skipped.
[INFO] --- maven-jar-plugin:2.6:jar (default-jar) @ springh2 ---
[INFO] Building jar: /Users/thook/dev/indiaTechConnect/local-h2-server/target/springh2-0.0.1-SNAPSHOT.jar
[INFO] --- spring-boot-maven-plugin:1.5.11.RELEASE:repackage (default) @ springh2 ---
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ springh2 ---
[INFO] Installing /Users/thook/dev/indiaTechConnect/local-h2-server/target/springh2-0.0.1-SNAPSHOT.jar to /Users/thook/.m2/repository/com/zipcode/springh2/0.0.1-SNAPSHOT/springh2-0.0.1-SNAPSHOT.jar
[INFO] Installing /Users/thook/dev/indiaTechConnect/local-h2-server/pom.xml to /Users/thook/.m2/repository/com/zipcode/springh2/0.0.1-SNAPSHOT/springh2-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.956 s
[INFO] Finished at: 2019-01-08T16:19:50-05:00
[INFO] Final Memory: 26M/88M
[INFO] -----
Tariqs-MacBook-Pro:local-h2-server thook$
```

Now that the project is built you, whenever you need a local database for your projects you can run the following command from inside this project folder.

```
java -jar target/local-h2-server-0.0.1-SNAPSHOT.jar
```

A screenshot of a macOS terminal window. The title bar at the top shows three colored window control buttons (red, yellow, green) on the left and the text "1. bash" in the center. The terminal content shows a command prompt "Tariqs-MacBook-Pro:local-h2-server thook\$" followed by the command "java -jar target/local-h2-server-0.0.1-SNAPSHOT.jar". The cursor is positioned at the end of the command line. The background of the terminal is black, and the text is white.

```
1. bash
Tariqs-MacBook-Pro:local-h2-server thook$ java -jar target/local-h2-server-0.0.1-SNAPSHOT.jar
```

This will start a spring h2 database server that you can access.

```

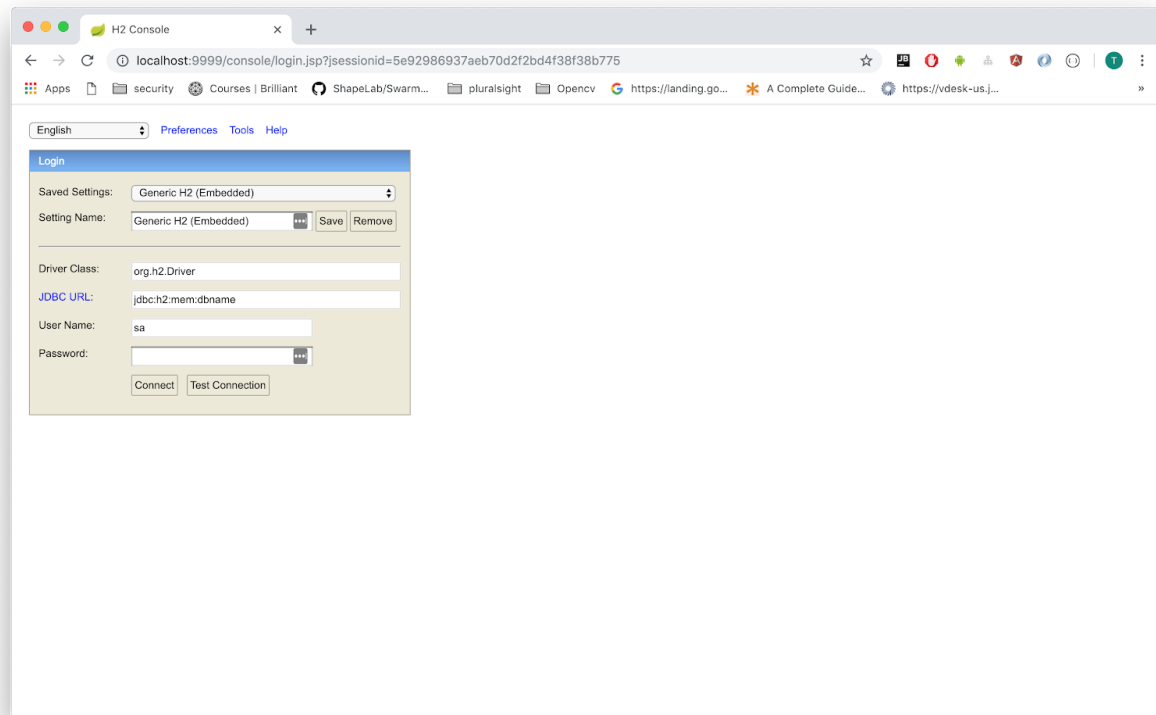
1.java
Tariqs-MacBook-Pro:local-h2-server thook$ java -jar target/local-h2-server-0.0.1-SNAPSHOT.jar

:: Spring Boot ::                (v1.5.11.RELEASE)

2019-01-08 16:21:25.213 INFO 35831 --- [           main] c.z.l.LocalH2ServerApplication : Starting LocalH2ServerApplication v0.0.1-SNAPSHOT on Tariqs-MacBo
ok-Pro.local with PID 35831 (/Users/thook/dev/indiaTechConnect/local-h2-server/target/local-h2-server-0.0.1-SNAPSHOT.jar started by thook in /Users/thook/dev/indiaTec
hConnect/local-h2-server)
2019-01-08 16:21:25.217 INFO 35831 --- [           main] c.z.l.LocalH2ServerApplication : No active profile set, falling back to default profiles: default
2019-01-08 16:21:25.280 INFO 35831 --- [           main] ationConfigEmbeddedWebApplicationContext : Refreshing org.springframework.boot.context.embedded.AnnotationCo
nfigEmbeddedWebApplicationContext@1698c449: startup date [Tue Jan 08 16:21:25 EST 2019]; root of context hierarchy
2019-01-08 16:21:26.347 INFO 35831 --- [           main] trationDelegatesBeanPostProcessorChecker : Bean 'org.springframework.transaction.annotation.ProxyTransaction
ManagementConfiguration' of type [org.springframework.transaction.annotation.ProxyTransactionManagementConfiguration$$EnhancerBySpringCGIIB$$6c1d00a5] is not eligib
le for getting processed by all BeanPostProcessors (for example: not eligible for auto-proxying)
2019-01-08 16:21:26.766 INFO 35831 --- [           main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat initialized with port(s): 9999 (http)
2019-01-08 16:21:26.798 INFO 35831 --- [           main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2019-01-08 16:21:26.798 INFO 35831 --- [           main] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/8.5.29
2019-01-08 16:21:26.893 INFO 35831 --- [ost-startStop-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2019-01-08 16:21:26.893 INFO 35831 --- [ost-startStop-1] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization completed in 1615 ms
2019-01-08 16:21:27.021 INFO 35831 --- [ost-startStop-1] o.s.b.w.servlet.ServletRegistrationBean : Mapping servlet: 'webServlet' to [/console/*]
2019-01-08 16:21:27.022 INFO 35831 --- [ost-startStop-1] o.s.b.w.servlet.FilterRegistrationBean : Mapping filter: 'characterEncodingFilter' to: [*/*]
2019-01-08 16:21:27.026 INFO 35831 --- [ost-startStop-1] o.s.b.w.servlet.FilterRegistrationBean : Mapping filter: 'hiddenHttpMethodFilter' to: [*/*]
2019-01-08 16:21:27.026 INFO 35831 --- [ost-startStop-1] o.s.b.w.servlet.FilterRegistrationBean : Mapping filter: 'httpPutFormContentFilter' to: [*/*]
```

You can access the database in a web browser

`http://localhost:9999/console`



Driver Class : org.h2.Driver

JDBC URL : jdbc:h2:mem:dbname

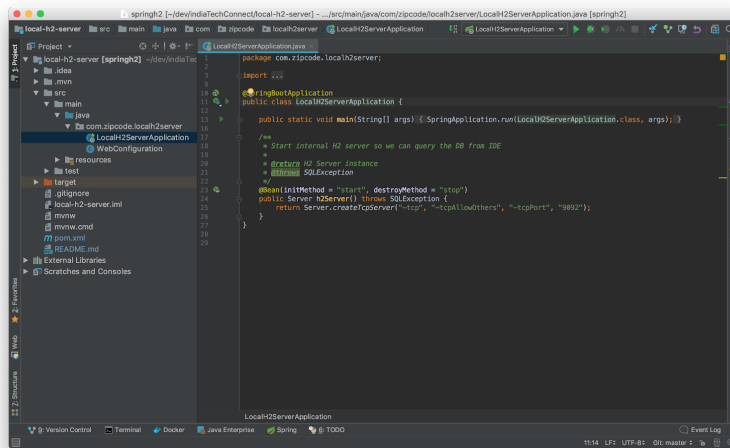
User Name : sa

Password :

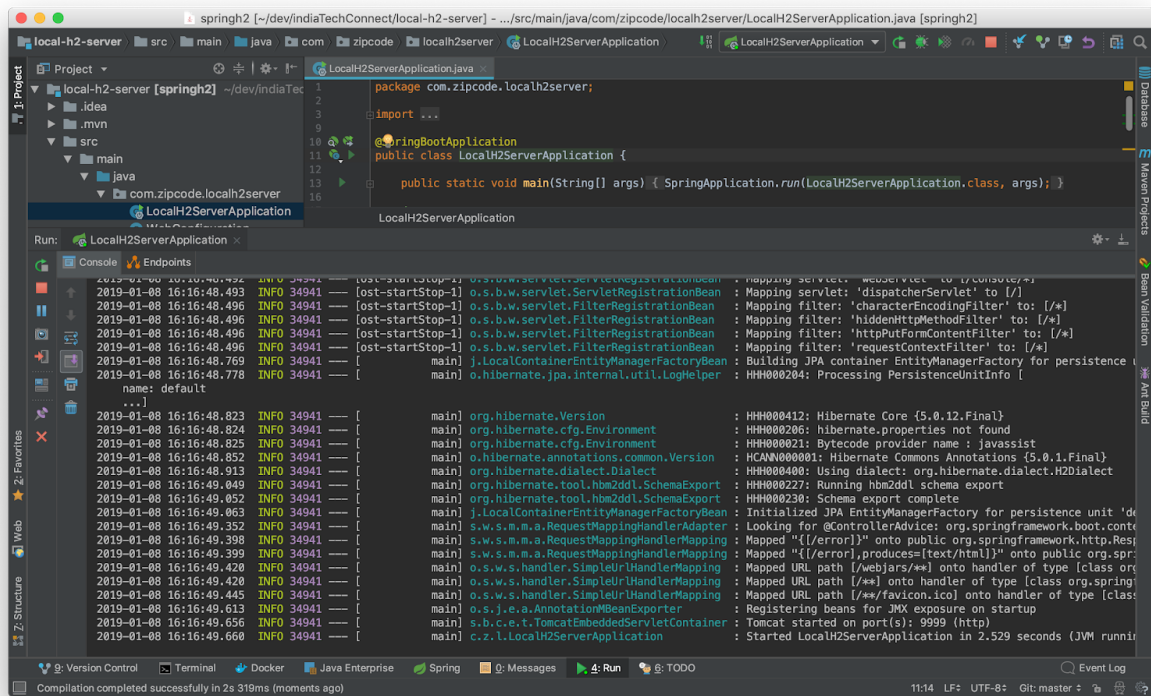
Running from the IDE IntelliJ

If you are having issues running MAVEN in GITBASH, you can can always build the project in intellij or eclipse, that will generate the jar file needed.

Import the project inside of IntelliJ



Run the Spring application



You can access the database via a web browser same as before.

You can also now run:

```
java -jar target/local-h2-server-0.0.1-SNAPSHOT.jar
```

In the project folder

You can now connect to the H2 server via :

```
jdbc:h2:tcp://localhost:9092/mem:dbname
```

An example of how to connect via java is located here:

<https://github.com/code-rhino/JDBCLocalH2Example>

For more on using JAVA and H2 look here

https://www.tutorialspoint.com/h2_database/h2_database_jdbc_connection.htm

