

Building a Spring Boot Application using Jenkins and testing the packaged Archive

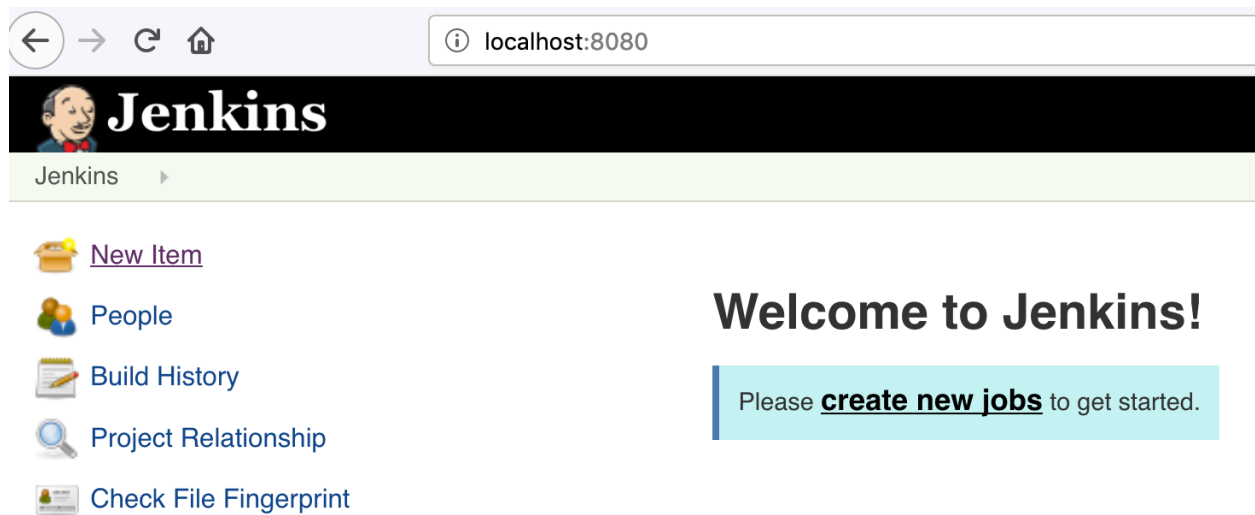
1. Visit <http://localhost:8080>
2. Login as admin/<temp-password>
3. Install Maven Integration Plugin

3.1 Manage Jenkins → Manage Plugins

Click on Available Tab

- Search for “Maven” on top-right box
- Select checkbox for “Maven Integration Plugin”
- Install Without Restart

4. Click on **New Item** link





4. Enter the **Project name**, Select **Maven Project** option and click on **OK** button


Enter an item name


boot-001


» Required field


 **Freestyle project**
This is the central feature of Jenkins. Jenkins will build your project, or something other than software build.


 **Maven project**
Build a maven project. Jenkins takes advantage of your POM files and

 **Pipeline**
Orchestrates long-running activities that can span multiple build agent organizing complex activities that do not easily fit in free-style job type

 **Multi-configuration project**
Suitable for projects that need a large number of different configuration

 **Folder**
Creates a container that stores nested items in it. Useful for grouping namespace, so you can have multiple things of the same name as long

 **GitHub Organization**
Scans a GitHub organization (or user account) for all repositories matching

 **Multibranch Pipeline**
Creates a set of Pipeline projects according to detected branches in o

OK

5. Select **Git** Radio button and enter the **Git Repo** of Spring Boot App

<https://github.com/nandakumarpurohit/spring-boot-hello-world-example.git>

Click on **Save** button

Source Code Management

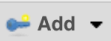
☐ None

☒ Git

Repositories

Repository URL


 Please enter Git repository.

Credentials 

Branches to build

Branch Specifier (blank for 'any')

Repository browser

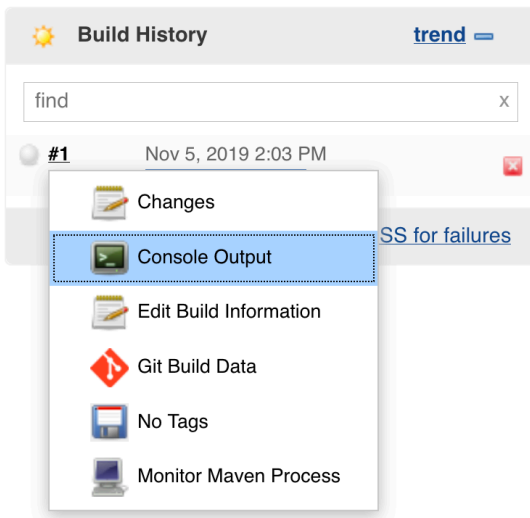
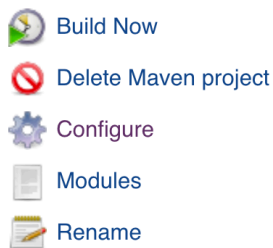
Additional Behaviours 

☐ Subversion

Save

Apply

6. Click on **Build Now** link and click on the small dropdown icon next to Build# and select **Console Output**



7. The build logs must show info about the build process

```
world-example/0.0.1-SNAPSHOT/spring-boot-hello-world-example-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.109 s
[INFO] Finished at: 2019-11-05T14:03:57-05:00
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /Users/nanda/.jenkins/workspace/boot-001/pom.xml to com.demo.springboot/spring-boot-hello-world-example/0.0.1-SNAPSHOT
/spring-boot-hello-world-example-0.0.1-SNAPSHOT.pom
[JENKINS] Archiving /Users/nanda/.jenkins/workspace/boot-001/target/spring-boot-hello-world-example-0.0.1-SNAPSHOT.jar to
com.demo.springboot/spring-boot-hello-world-example/0.0.1-SNAPSHOT/spring-boot-hello-world-example-0.0.1-SNAPSHOT.jar
channel stopped
Finished: SUCCESS
```

Your path will be windows path starting with C:\Users . . .

```
[JENKINS] Archiving /Users/nanda/.jenkins/workspace/boot-001/pom.xml to com.demo.springboot/spring-boot-hello-world-example-0.0.1-SNAPSHOT/pom
[JENKINS] Archiving /Users/nanda/.jenkins/workspace/boot-001/target/spring-boot-hello-world-example-0.0.1-SNAPSHOT.jar to com.demo.springboot/spring-boot-hello-world-example-0.0.1-SNAPSHOT/spring-boot-hello-world-example-0.0.1-SNAPSHOT.jar
```

```
Nandakumars-MacBook-Pro:~ nanda$ cd /Users/nanda/.jenkins/workspace/boot-001/target/
Nandakumars-MacBook-Pro:target nanda$ ls
classes
generated-sources
maven-archiver
maven-status
spring-boot-hello-world-example-0.0.1-SNAPSHOT.jar
spring-boot-hello-world-example-0.0.1-SNAPSHOT.jar.original
Nandakumars-MacBook-Pro:target nanda$
```

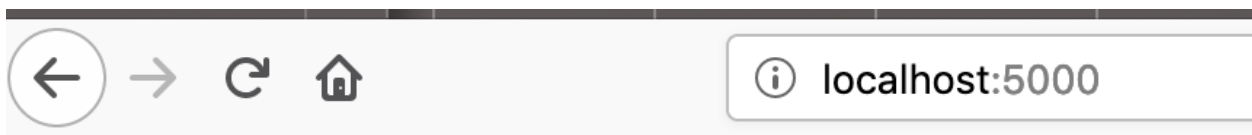
[illegible]

```
2019-11-05 14:39:03.261 INFO 32148 --- [main] com.demo.springboot.MainApp :
Starting MainApp v0.0.1-SNAPSHOT on Nandakumars-MacBook-Pro.local with PID 32148 (/Users/nanda/.jenkins/workspace/boot-001/target/spring-boot-hello-world-example-0.0.1-SNAPSHOT.jar started by nanda in /Users/nanda/.jenkins/workspace/boot-001/target)
2019-11-05 14:39:03.263 INFO 32148 --- [main] com.demo.springboot.MainApp :
No active profile set, falling back to default profiles: default
2019-11-05 14:39:03.312 INFO 32148 --- [main] ationConfigEmbeddedWebApplicationContext :
Refreshing org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext@419af9a9: startup date [Tue Nov 05 14:39:03 EST 2019]; root of context hierarchy
```

The Boot App starts on Port# 5000

```
Registering beans for JMX exposure on startup
2019-11-05 14:39:05.009 INFO 32148 --- [main] s.b.c.e.t.TomcatEmbeddedServletCon
Tomcat started on port(s): 5000 (http)
2019-11-05 14:39:05.013 INFO 32148 --- [main] com.demo.springboot.MainApp
Started MainApp in 2.499 seconds (JVM running for 2.915)
```

Open Browser, visit <http://localhost:5000/>



Hello Spring Boot!!