

1. Instalación de Java 21.0.6 (Uso de OpenJDK en Fedora 12.0)

```
Complete!  
xishay@cyborg:~$ java -version  
openjdk version "21.0.6" 2025-01-21  
OpenJDK Runtime Environment (Red_Hat-21.0.6.0.7-1) (build 21.0.6+7)  
OpenJDK 64-Bit Server VM (Red_Hat-21.0.6.0.7-1) (build 21.0.6+7, mixed mode, sharing)  
xishay@cyborg:~$
```

2. Instalación de Maven 3.9.6

```
Complete!  
xishay@cyborg:~$ mvn -version  
Apache Maven 3.9.6 (Red Hat 3.9.6-7)  
Maven home: /usr/share/maven  
Java version: 21.0.6, vendor: Red Hat, Inc., runtime: /usr/lib/jvm/java-21-openjdk  
Default locale: en_US, platform encoding: UTF-8  
OS name: "linux", version: "6.12.13-200.fc41.x86_64", arch: "amd64", family: "unix"  
xishay@cyborg:~$
```

3. Configuración de herramientas

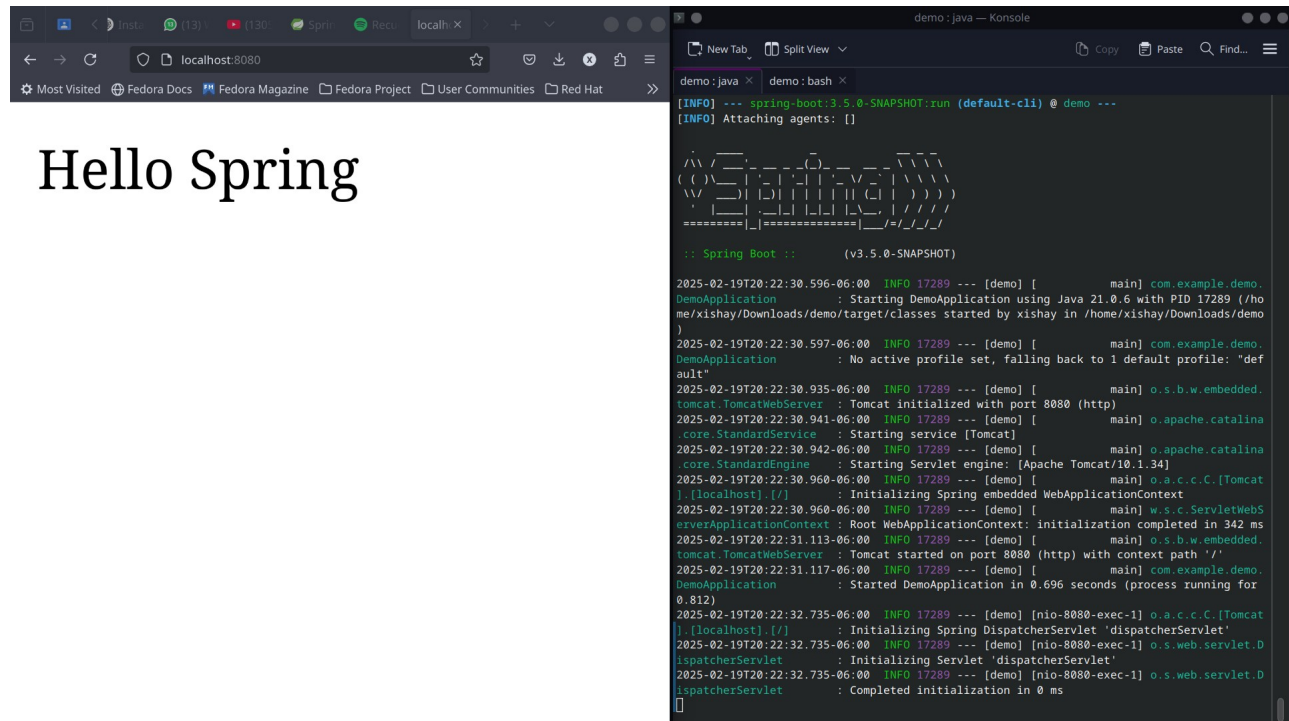
```
xishay@cyborg:~$ export JAVA_HOME=$(dirname $(dirname $(readlink -f $(which java))))  
export PATH=$JAVA_HOME/bin:$PATH  
xishay@cyborg:~$ source ~/.bashrc  
xishay@cyborg:~$ export MAVEN_HOME=/usr/share/maven  
export PATH=$MAVEN_HOME/bin:$PATH  
xishay@cyborg:~$ source ~/.bashrc  
xishay@cyborg:~$
```

```
xishay@cyborg:~$ java -version  
javac -version  
echo $JAVA_HOME  
openjdk version "21.0.6" 2025-01-21  
OpenJDK Runtime Environment (Red_Hat-21.0.6.0.7-1) (build 21.0.6+7)  
OpenJDK 64-Bit Server VM (Red_Hat-21.0.6.0.7-1) (build 21.0.6+7, mixed mode, sharing)  
javac 21.0.6  
/usr/lib/jvm/java-21-openjdk
```

```
xishay@cyborg:~$ mvn -version  
Apache Maven 3.9.6 (Red Hat 3.9.6-7)  
Maven home: /usr/share/maven  
Java version: 21.0.6, vendor: Red Hat, Inc., runtime: /usr/lib/jvm/java-21-openjdk  
Default locale: en_US, platform encoding: UTF-8  
OS name: "linux", version: "6.12.13-200.fc41.x86_64", arch: "amd64", family: "unix"  
xishay@cyborg:~$
```

```
xishay@cyborg:~$ spring --version
Spring version 4.1.1
```

4. Hola Spring



The screenshot shows a web browser on the left and a terminal window on the right. The browser's address bar shows 'localhost:8080'. The terminal window, titled 'demo: java - Konsole', displays the output of running a Spring Boot application. It starts with a ASCII art logo for Spring Boot, followed by logs indicating the application is starting on port 8080. The logs show the initialization of Tomcat, the Servlet engine, and the Spring DispatcherServlet. The application is running successfully.

```
demo: java x demo: bash x
[INFO] --- spring-boot:3.5.0-SNAPSHOT:run (default-cli) @ demo ---
[INFO] Attaching agents: []

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:: Spring Boot :: (v3.5.0-SNAPSHOT)

2025-02-19T20:22:30.596-06:00 INFO 17289 --- [demo] [main] com.example.demo.DemoApplication : Starting DemoApplication using Java 21.0.6 with PID 17289 (/home/xishay/Downloads/demo/target/classes started by xishay in /home/xishay/Downloads/demo)
2025-02-19T20:22:30.597-06:00 INFO 17289 --- [demo] [main] com.example.demo.DemoApplication : No active profile set, falling back to 1 default profile: "default"
2025-02-19T20:22:30.935-06:00 INFO 17289 --- [demo] [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 8080 (http)
2025-02-19T20:22:30.941-06:00 INFO 17289 --- [demo] [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2025-02-19T20:22:30.942-06:00 INFO 17289 --- [demo] [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.34]
2025-02-19T20:22:30.960-06:00 INFO 17289 --- [demo] [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2025-02-19T20:22:30.960-06:00 INFO 17289 --- [demo] [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 342 ms
2025-02-19T20:22:31.113-06:00 INFO 17289 --- [demo] [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 8080 (http) with context path '/'
2025-02-19T20:22:31.117-06:00 INFO 17289 --- [demo] [main] com.example.demo.DemoApplication : Started DemoApplication in 0.696 seconds (process running for 0.812)
2025-02-19T20:22:32.735-06:00 INFO 17289 --- [demo] [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
2025-02-19T20:22:32.735-06:00 INFO 17289 --- [demo] [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2025-02-19T20:22:32.735-06:00 INFO 17289 --- [demo] [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 0 ms
```

<https://github.com/xiomj29/SoftwareEngineering>