



## PRÁCTICA HEROKU CON JAVA

Fecha: 06-11-2017


### Referencia:

<https://devcenter.heroku.com/articles/getting-started-with-java#introduction>

- Se debe tener una cuenta Heroku
- Se debe tener instalado localmente *Java 8*

Para verificar en *cmd*:

Comando: *java -version*

 Símbolo del sistema

```
Microsoft Windows [Versión 10.0.15063]
(c) 2017 Microsoft Corporation. Todos los derechos reservados.

C:\Users\Pablo>java -version
java version "1.8.0_45"
Java(TM) SE Runtime Environment (build 1.8.0_45-b15)
Java HotSpot(TM) 64-Bit Server VM (build 25.45-b02, mixed mode)
```

- Tener instalado Maven 3

Para instalar:

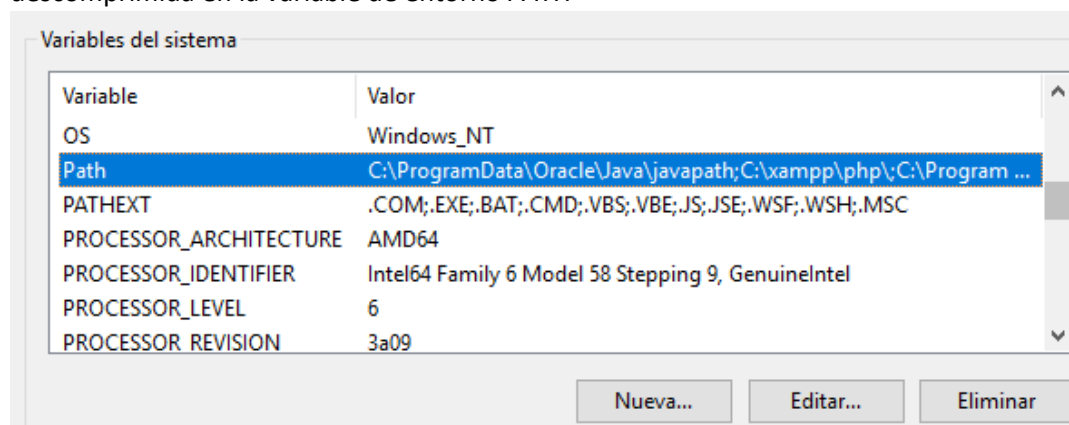
- Descargar el binario zip desde <http://maven.apache.org/download.cgi>
- Verificar en *cmd* la ruta de la variable de entorno donde está Java

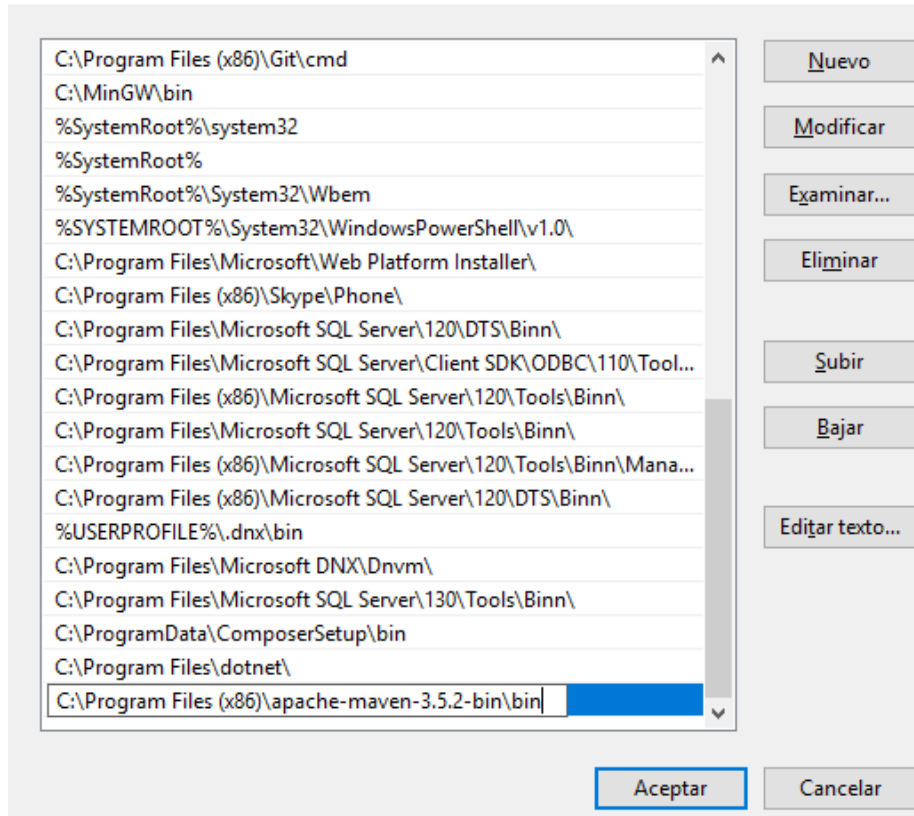
Comando: *echo %JAVA\_HOME%*

```
C:\Users\Pablo>echo %JAVA_HOME%
C:\Program Files (x86)\Java\jre1.8.0_45

C:\Users\Pablo>
```

- Descomprimir el binario descargado en alguna ruta; copiar la ruta de la carpeta *bin* de la carpeta descomprimida en la variable de entorno *PATH*





Paths listed in the environment variable editor:

- C:\Program Files (x86)\Git\cmd
- C:\MinGW\bin
- %SystemRoot%\system32
- %SystemRoot%
- %SystemRoot%\System32\Wbem
- %SYSTEMROOT%\System32\WindowsPowerShell\v1.0\
- C:\Program Files\Microsoft\Web Platform Installer\
- C:\Program Files (x86)\Skype\Phone\
- C:\Program Files\Microsoft SQL Server\120\DTS\Binn\
- C:\Program Files\Microsoft SQL Server\Client SDK\ODBC\110\Tool...
- C:\Program Files (x86)\Microsoft SQL Server\120\Tools\Binn\
- C:\Program Files\Microsoft SQL Server\120\Tools\Binn\
- C:\Program Files (x86)\Microsoft SQL Server\120\Tools\Binn\Mana...
- C:\Program Files (x86)\Microsoft SQL Server\120\DTS\Binn\
- %USERPROFILE%\dnx\bin
- C:\Program Files\Microsoft DNX\Dnvm\
- C:\Program Files\Microsoft SQL Server\130\Tools\Binn\
- C:\ProgramData\ComposerSetup\bin
- C:\Program Files\dotnet\
- C:\Program Files (x86)\apache-maven-3.5.2-bin\bin

Buttons on the right: Nuevo, Modificar, Examinar..., Eliminar, Subir, Bajar, Editar texto...

Buttons at the bottom: Aceptar, Cancelar

- Verificar en *cmd* que Maven este en el *PATH*:

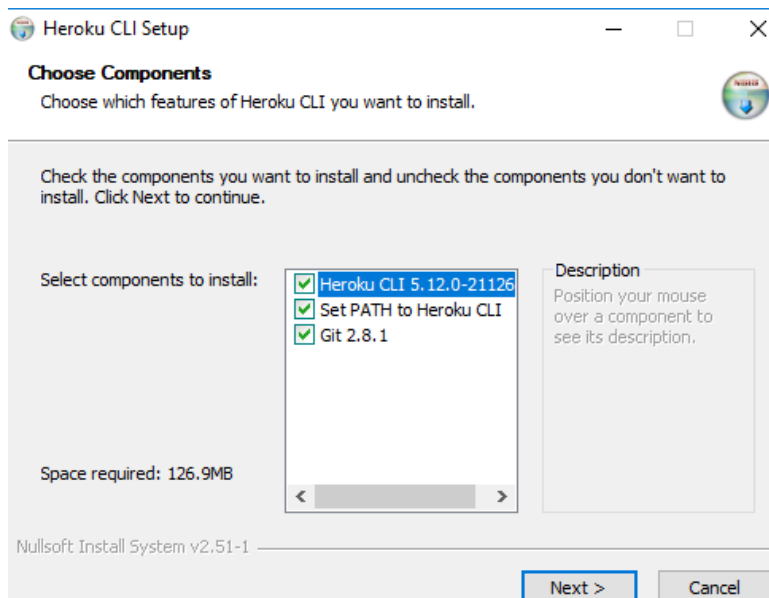
Comando: *mvn -v*

```
C:\Users\Pablo>mvn -v
Apache Maven 3.5.2 (138edd61fd100ec658bfa2d307c43b76940a5d7d; 2017-10-18T02:58:13-05:00)
Maven home: C:\Program Files (x86)\apache-maven-3.5.2-bin\bin\..
Java version: 1.8.0_45, vendor: Oracle Corporation
Java home: C:\Program Files (x86)\Java\jre1.8.0_45
Default locale: es_ES, platform encoding: Cp1252
OS name: "windows 8.1", version: "6.3", arch: "x86", family: "windows"
```

## Instalar Heroku CLI

Descargamos el instalador en <https://devcenter.heroku.com/articles/getting-started-with-java#set-up>

Se instala:



Heroku CLI Setup

**Choose Components**

Choose which features of Heroku CLI you want to install.

Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.

Select components to install:

- ☒ Heroku CLI 5.12.0-21126
- ☒ Set PATH to Heroku CLI
- ☒ Git 2.8.1

Space required: 126.9MB

Description: Position your mouse over a component to see its description.

Next > Cancel



Loguear en Heroku

```
C:\Users\Pablo>heroku login
WARNING: This is the legacy Heroku CLI with limited functionality. Please install the latest
CLI.
WARNING: Installation instructions are at https://cli.heroku.com
Enter your Heroku credentials:
Email: palandeta@utn.edu.ec
Password: *****
Logged in as palandeta@utn.edu.ec
```

Clonamos un ejemplo de una aplicación java, para esto en *cmd* nos movemos a la ruta donde se clonará la aplicación

Comando: *git clone https://github.com/heroku/java-getting-started.git*

```
D:\UTN\Cloud Computing Oct 17>cd "practica Heroku-java"

D:\UTN\Cloud Computing Oct 17\practica Heroku-java>dir
El volumen de la unidad D es Datos
El número de serie del volumen es: 1649-584E

Directorio de D:\UTN\Cloud Computing Oct 17\practica Heroku-java

29/10/2017  17:55    <DIR>          .
29/10/2017  17:55    <DIR>          ..
29/10/2017  17:27    <DIR>          apache-maven-3.5.2-bin
29/10/2017  17:26             8.900.183 apache-maven-3.5.2-bin.zip
29/10/2017  17:55             54.356.048 heroku-windows-amd64.exe
29/10/2017  17:27             140.616 PRACTICA HEROKU CON JAVA.docx
                3 archivos      63.396.847 bytes
                3 dirs  152.778.248.192 bytes libres

D:\UTN\Cloud Computing Oct 17\practica Heroku-java>git clone https://github.com/heroku/java-getting-started.git
Cloning into 'java-getting-started'...
remote: Counting objects: 309, done.
remote: Total 309 (delta 0), reused 0 (delta 0), pack-Reused 309
R09)
Receiving objects: 100% (309/309), 98.57 KiB | 0 bytes/s, done.
Resolving deltas: 100% (103/103), done.
Checking connectivity... done.
```

Luego avanzamos al directorio de la aplicación clonada

Comando: *cd java-getting-started*

Creamos la aplicación en Heroku, lo cual prepara a Heroku a recibir la aplicación

(Nota: Heroku crea un nombre randómico para la url de la aplicación)

Comando: *heroku create*

```
D:\UTN\Cloud Computing Oct 17\practica Heroku-java>cd java-getting-started

D:\UTN\Cloud Computing Oct 17\practica Heroku-java\java-getting-started>heroku create
WARNING: This is the legacy Heroku CLI with limited functionality. Please install the latest CLI.
WARNING: Installation instructions are at https://cli.heroku.com
Creating app... done, safe-forest-86465
https://safe-forest-86465.herokuapp.com/ | https://git.heroku.com/safe-forest-86465.git
```

Desplegamos el código

Comando: *git push heroku master*



Simbólo del sistema

```
remote: [INFO] Downloaded: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.pom (11 KB at 1556.5 KB/sec)
remote: [INFO] Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.pom
remote: [INFO] Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.pom (4 KB at 658.7 KB/sec)
remote: [INFO] Downloading: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.pom
remote: [INFO] Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.pom (4 KB at 512.0 KB/sec)
remote: [INFO] Downloading: https://repo.maven.apache.org/maven2/classworlds/classworlds/1.1-alpha-2/classworlds-1.1-alpha-2.jar
remote: [INFO] Downloaded: https://repo.maven.apache.org/maven2/classworlds/classworlds/1.1-alpha-2/classworlds-1.1-alpha-2.jar (37 KB at 1409.1 KB/sec)
remote: [INFO] Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.jar
remote: [INFO] Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.jar (152 KB at 5234.8 KB/sec)
remote: [INFO] Downloading: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.jar
remote: [INFO] Downloaded: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.jar (228 KB at 4941.6 KB/sec)
remote: [INFO] Downloading: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar
remote: [INFO] Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar (234 KB at 5303.4 KB/sec)
remote: [INFO] Downloading: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar
remote: [INFO] Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar (234 KB at 5303.4 KB/sec)
remote: [INFO] Installing /tmp/build_b6b6d65a649b636923eb2e3add5f8f96/target/java-getting-started-1.0.jar to /app/tmp/cache/.m2/repository/com/example/java-getting-started-1.0.jar
remote: [INFO] Installing /tmp/build_b6b6d65a649b636923eb2e3add5f8f96/pom.xml to /app/tmp/cache/.m2/repository/com/example/java-getting-started-1.0.pom
remote: [INFO] -----
remote: [INFO] BUILD SUCCESS
remote: [INFO] -----
remote: [INFO] Total time: 13.177 s
remote: [INFO] Finished at: 2017-10-29T23:40:01+00:00
remote: [INFO] Final Memory: 38M/267M
remote: [INFO] -----
remote: -----> Discovering process types
remote: Procfile declares types -> web
remote: -----> Compressing...
remote: Done: 64.5M
remote: -----> Launching...
remote: Released v4
remote: https://safe-forest-86465.herokuapp.com/ deployed to Heroku
remote: Verifying deploy... done.
To https://git.heroku.com/safe-forest-86465.git
* [new branch] master -> master

D:\UTN\Cloud Computing Oct 17\practica Heroku-java\java-getting-started>
```

La aplicación está desplegada. Asegúrese de que por lo menos una instancia de la aplicación este corriendo:

Comando: `heroku ps:scale web=1`

```
D:\UTN\Cloud Computing Oct 17\practica Heroku-java\java-getting-started>heroku ps:scale web=1
WARNING: This is the legacy Heroku CLI with limited functionality. Please install the latest CLI.
WARNING: Installation instructions are at https://cli.heroku.com
Scaling dynos... done, now running web at 1:Free

D:\UTN\Cloud Computing Oct 17\practica Heroku-java\java-getting-started>
```

Se puede abrir la aplicación con la URL (en el ejemplo: <https://safe-forest-86465.herokuapp.com/>) entregada al momento de hacer “*heroku create*”, si no se anotó la URL se la puede abrir automáticamente con el siguiente comando

Comando: `heroku open`

Getting Started with Java on Heroku

This is a sample Java application deployed to Heroku. It's a reasonably simple app - but a good foundation for understanding how to get the most out of the Heroku platform.

Getting Started with Java Source on GitHub

To deploy your own copy, and learn the fundamentals of the Heroku platform, head over to the [Getting Started with Java on Heroku tutorial](#).

**How this sample app works**

- This app was deployed to Heroku, either using Git or by using [Heroku Button](#) on

**Next Steps**

- If you are following the [Getting Started](#) guide, then please head back to the tutorial