
SISTEMAS WEB

CURSO 2021/2022

Instalación de Software II



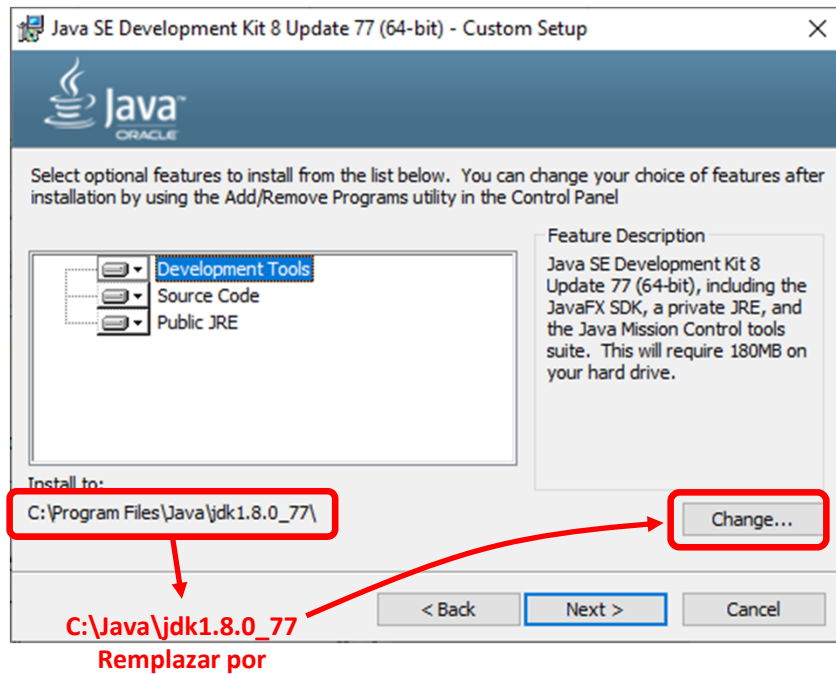
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INSTALACIÓN DEL SOFTWARE NECESARIO

- **Java Development Environment (JDK)**
 - JDK Instalar en el directorio **C:\Java\jdk1.8.0_77**
 - JRE Instalar en el directorio **C:\Java\jre1.8.0_77**
 - Crear la variable entorno **JAVA_HOME** , siendo su valor **C:\Java\jre1.8.0_77**
- **Eclipse IDE-a** (Eclipse IDE for Enterprise Java Developers)
 - Instalar en el directorio **C:\eclipse_sw**
- **Gestor de base de datos MySQL 5.7**
 - Setup type: *Developer default*. Check requirements: *Next* (no instalar paquetes adicionales)
 - MySQL server configuration
 - Usuario: *root*. Contraseña: *root*
 - Windows service (Puesta en marcha de la base de datos como servicio al iniciar Windows)
 - *Configure MySQL server as a Windows service*
 - *Start MySQL server at system startup*
 - Instalar también *MySQL WorkBench*
- **Servidor Web Apache Tomcat 8.5.11**
 - Instalar en el directorio **C:\apache_tomcat**
 - Crear la variable entorno **CATALINA_HOME** , siendo su valor **C:\apache_tomcat**
 - Comprobación:
 - cmd → **C:\apache_tomcat\bin\startup.bat**
 - Navegador → <http://localhost:8080/>

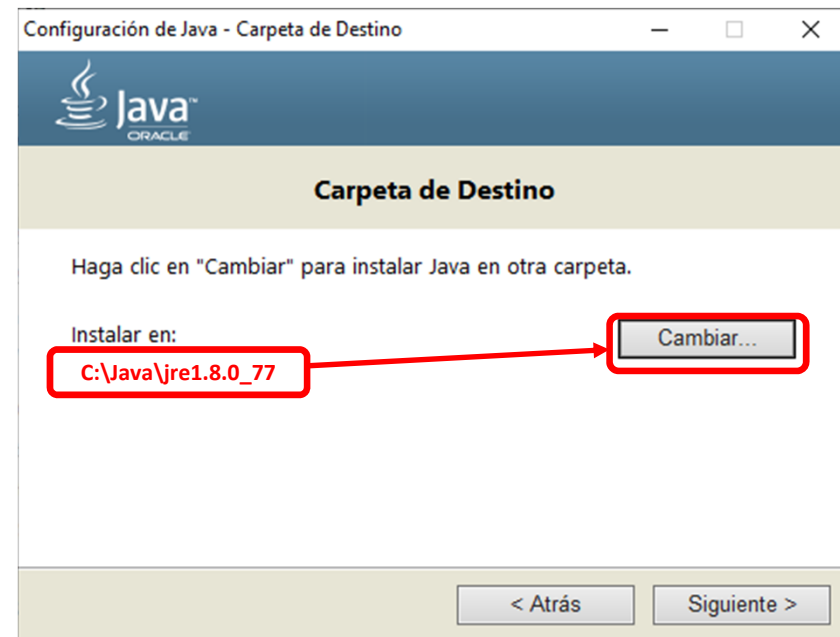
Para quienes utilicen
Windows, los programas están
agrupados en ehubox:
[https://ehubox.ehu.eus/s/2En
BcDWjLcrajSP](https://ehubox.ehu.eus/s/2EnBcDWjLcrajSP)

JDK



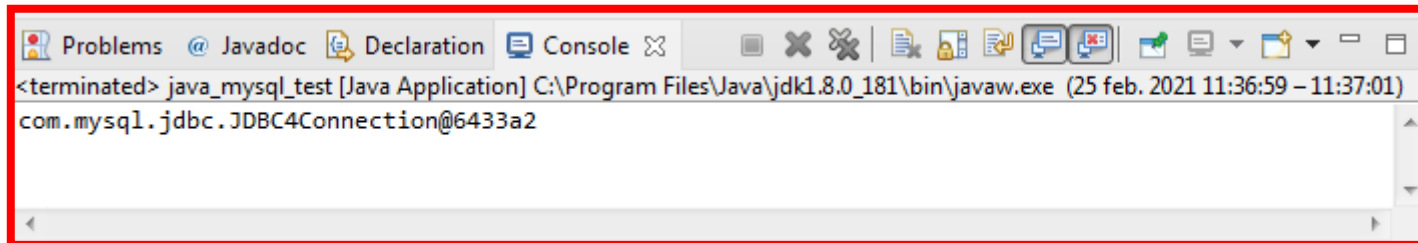
El JDK Instalar en el directorio
C:\Java\jdk1.8.0_77

El JRE Instalar en el directorio
C:\Java\jre1.8.0_77



COMPROBACIÓN DE MYSQL CON JAVA

- Instalar el conector con MySQL:
 - El conector para MySQL Workbench 5.7
mysql-connector-java-5.1.38-bin.jar (en eGela)
 - Para otras versiones MySQL Workbench podeis descargar en:
<https://dev.mysql.com/downloads/connector/j/>
- Comprobar la conexión con Java:
 - Crear un proyecto Java
 - Crear directorio lib, copiar el conector y añadirlo al *Build Path*.
 - Copiar *java_mysql_test.java* (en eGela) en src.
 - Compilar y ejecutar.

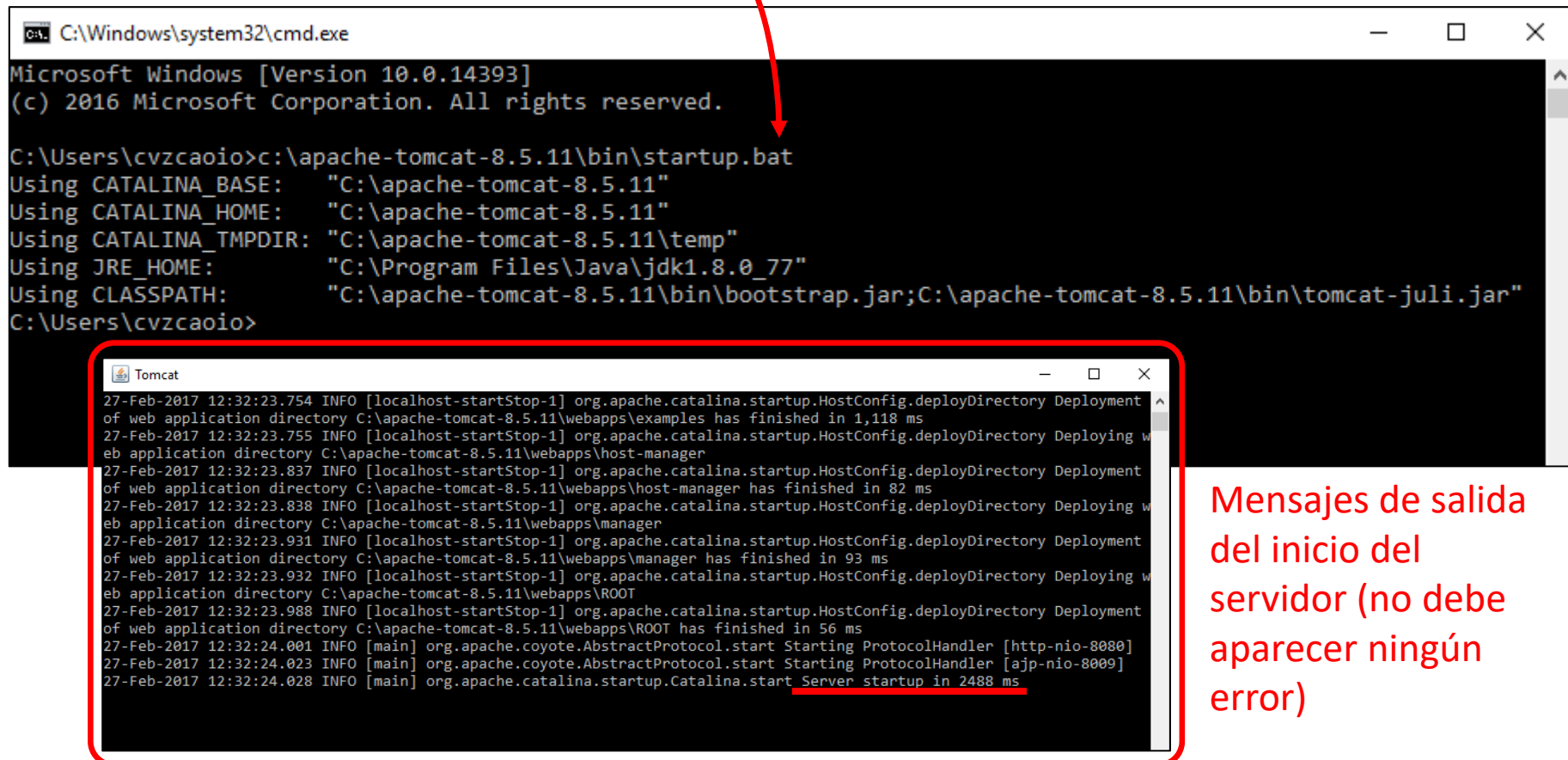


The screenshot shows the Eclipse IDE's console window. The title bar includes tabs for 'Problems', 'Javadoc', 'Declaration', and 'Console'. The console output displays the following text: '<terminated> java_mysql_test [Java Application] C:\Program Files\Java\jdk1.8.0_181\bin\javaw.exe (25 feb. 2021 11:36:59 - 11:37:01)' followed by 'com.mysql.jdbc.JDBC4Connection@6433a2'. The entire console window is highlighted with a red border.

TOMCAT: INICIAR SERVIDOR

INICIAR servidor Tomcat:

CMD → \$CATALINA_HOME/bin/**startup**



The image shows two overlapping windows. The background window is a Windows Command Prompt titled 'C:\Windows\system32\cmd.exe'. It displays the output of running 'C:\Users\cvzcaio>c:\apache-tomcat-8.5.11\bin\startup.bat'. The output shows environment variables being set: CATALINA_BASE, CATALINA_HOME, CATALINA_TMPDIR, JRE_HOME, and CLASSPATH. The foreground window is a Tomcat log window titled 'Tomcat'. It shows a series of INFO messages from the catalina.startup.HostConfig.deployDirectory method, indicating the deployment of web applications (examples, host-manager, manager, ROOT) and the starting of ProtocolHandlers (http-nio-8080, ajp-nio-8009). The final message is '[main] org.apache.catalina.startup.Catalina.start Server startup in 2488 ms'.

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\cvzcaio>c:\apache-tomcat-8.5.11\bin\startup.bat
Using CATALINA_BASE:   "C:\apache-tomcat-8.5.11"
Using CATALINA_HOME:   "C:\apache-tomcat-8.5.11"
Using CATALINA_TMPDIR: "C:\apache-tomcat-8.5.11\temp"
Using JRE_HOME:        "C:\Program Files\Java\jdk1.8.0_77"
Using CLASSPATH:       "C:\apache-tomcat-8.5.11\bin\bootstrap.jar;C:\apache-tomcat-8.5.11\bin\tomcat-juli.jar"
C:\Users\cvzcaio>
```

```
Tomcat
27-Feb-2017 12:32:23.754 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment
of web application directory C:\apache-tomcat-8.5.11\webapps\examples has finished in 1,118 ms
27-Feb-2017 12:32:23.755 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying w
eb application directory C:\apache-tomcat-8.5.11\webapps\host-manager
27-Feb-2017 12:32:23.837 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment
of web application directory C:\apache-tomcat-8.5.11\webapps\host-manager has finished in 82 ms
27-Feb-2017 12:32:23.838 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying w
eb application directory C:\apache-tomcat-8.5.11\webapps\manager
27-Feb-2017 12:32:23.931 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment
of web application directory C:\apache-tomcat-8.5.11\webapps\manager has finished in 93 ms
27-Feb-2017 12:32:23.932 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying w
eb application directory C:\apache-tomcat-8.5.11\webapps\ROOT
27-Feb-2017 12:32:23.988 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment
of web application directory C:\apache-tomcat-8.5.11\webapps\ROOT has finished in 56 ms
27-Feb-2017 12:32:24.001 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler [http-nio-8080]
27-Feb-2017 12:32:24.023 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler [ajp-nio-8009]
27-Feb-2017 12:32:24.028 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in 2488 ms
```

Mensajes de salida
del inicio del
servidor (no debe
aparecer ningún
error)

TOMCAT: COMPROBACIÓN

Para comprobar la correcta puesta en marcha de Tomcat:
Solicitar en el navegador la URI <http://localhost:8080> y comprobar que se visualiza la página de bienvenida de Tomcat.

