
SISTEMAS WEB

CURSO 2023/2024

Instalación de Software II



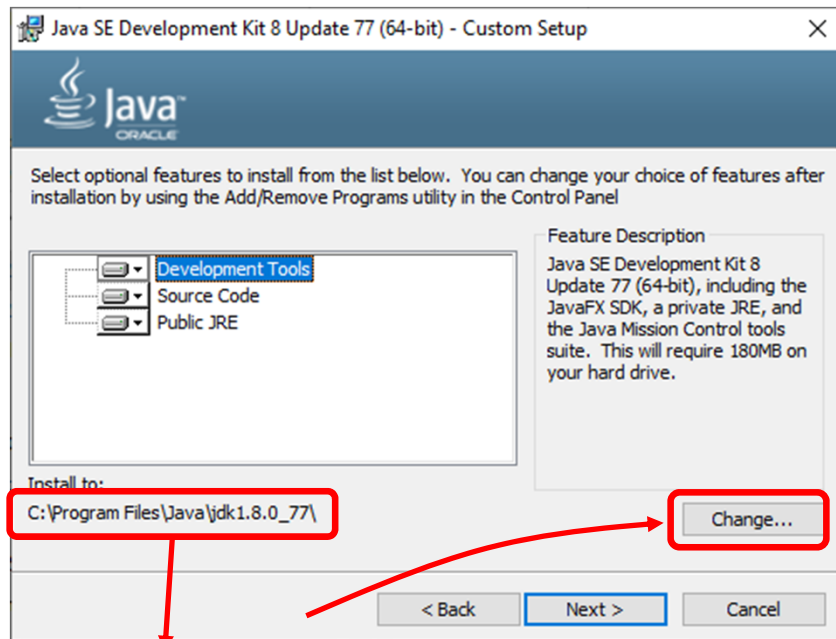
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INSTALACIÓN DEL SOFTWARE NECESARIO

- **Java Development Environment (JDK)**
 - JDK Instalar en el directorio **C:\Java\jdk1.8.5.11**
 - JRE Instalar en el directorio **C:\Java\jre1.8.5.11**
 - Crear la variable entorno **JAVA_HOME** , siendo su valor **C:\Java\jre1.8.5.11**
- **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/DjTp
RM39c4PJrZd](https://ehubox.ehu.eus/s/DjTpRM39c4PJrZd)

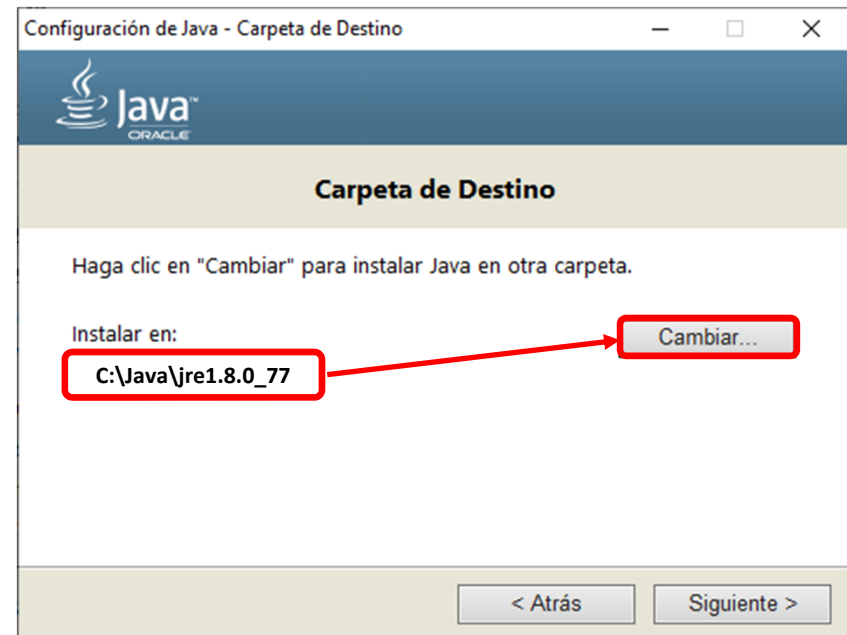
JDK



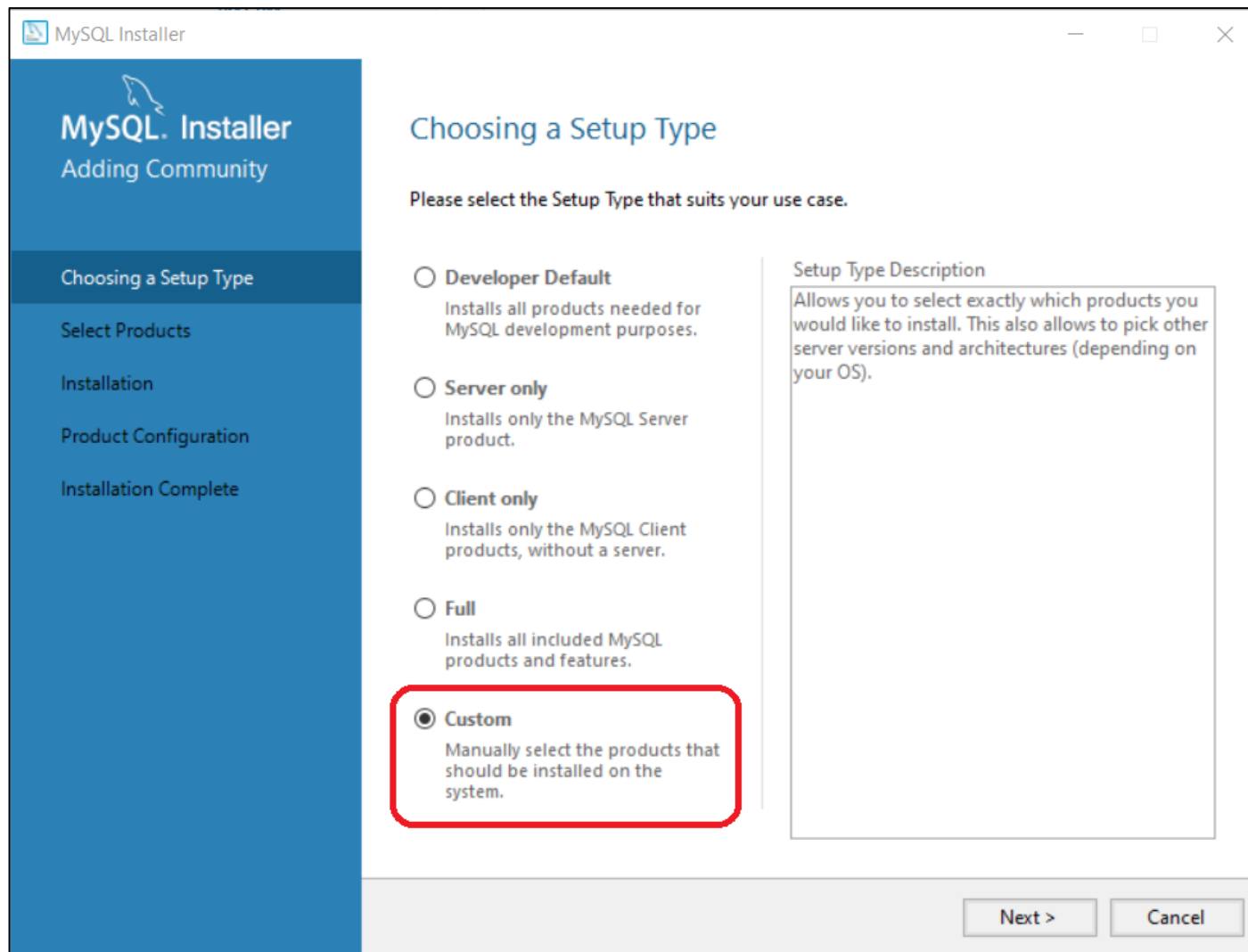
Remplazar por
C:\Java\jdk1.8.0_77

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

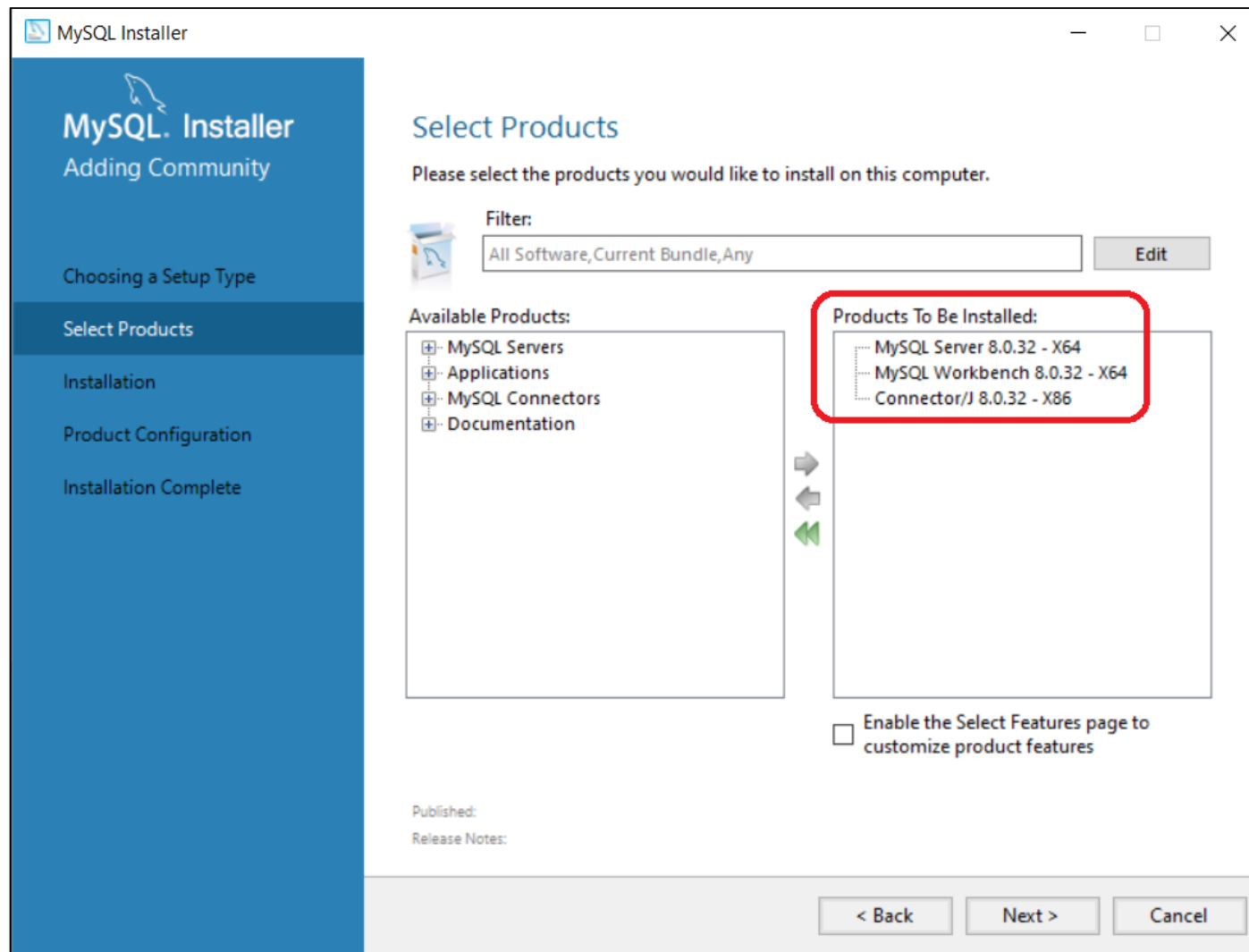
El JRE Instalar en el directorio
C:\Java\jre1.8.



MYSQL INSTALLER



MySQL INSTALLER



MySQL INSTALLER

MySQL Installer
MySQL Server 8.0.32

Type and Networking

Authentication Method

Accounts and Roles

Windows Service

Server File Permissions

Apply Configuration

Type and Networking

Server Configuration Type
Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance.

Config Type: Development Computer

Connectivity
Use the following controls to select how you would like to connect to this server.

☒ TCP/IP Port: 3306 X Protocol Port: 33060

☒ Open Windows Firewall ports for network access

☐ Named Pipe Pipe Name: MYSQL

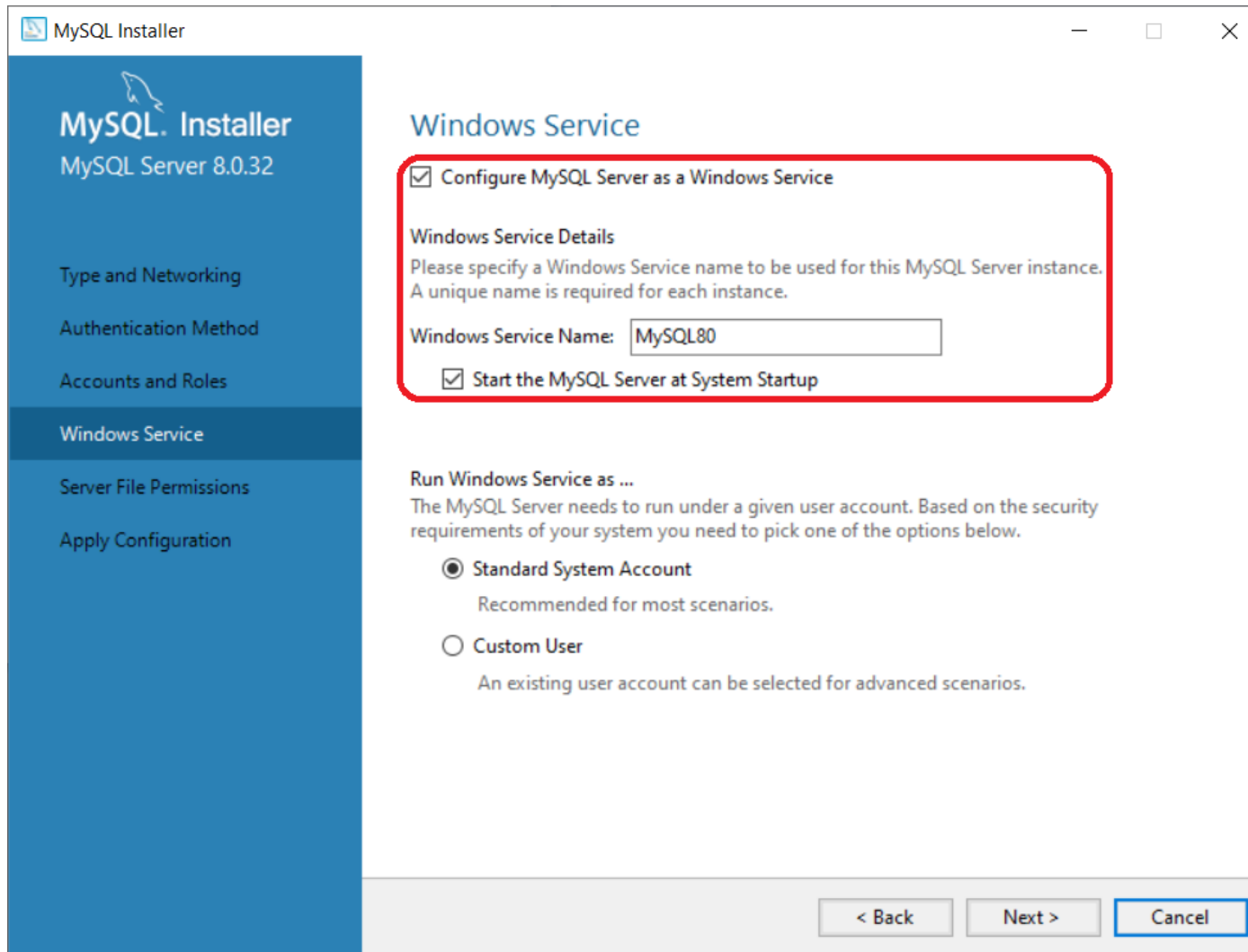
☐ Shared Memory Memory Name: MYSQL

Advanced Configuration
Select the check box below to get additional configuration pages where you can set advanced and logging options for this server instance.

☐ Show Advanced and Logging Options

Next > Cancel

MySQL INSTALLER



The screenshot shows the MySQL Installer window with the 'Windows Service' tab selected. The left sidebar lists the installation steps: Type and Networking, Authentication Method, Accounts and Roles, Windows Service (highlighted), Server File Permissions, and Apply Configuration. The main area is titled 'Windows Service' and contains a red-bordered box with the following options:

- ☒ **Configure MySQL Server as a Windows Service**

Below this, the 'Windows Service Details' section explains that a unique service name is required. A text box labeled 'Windows Service Name:' contains the value 'MySQL80'. At the bottom of the red box is the option:

- ☒ **Start the MySQL Server at System Startup**

Below the red box, the 'Run Windows Service as ...' section provides instructions on selecting a user account. Two radio buttons are available:

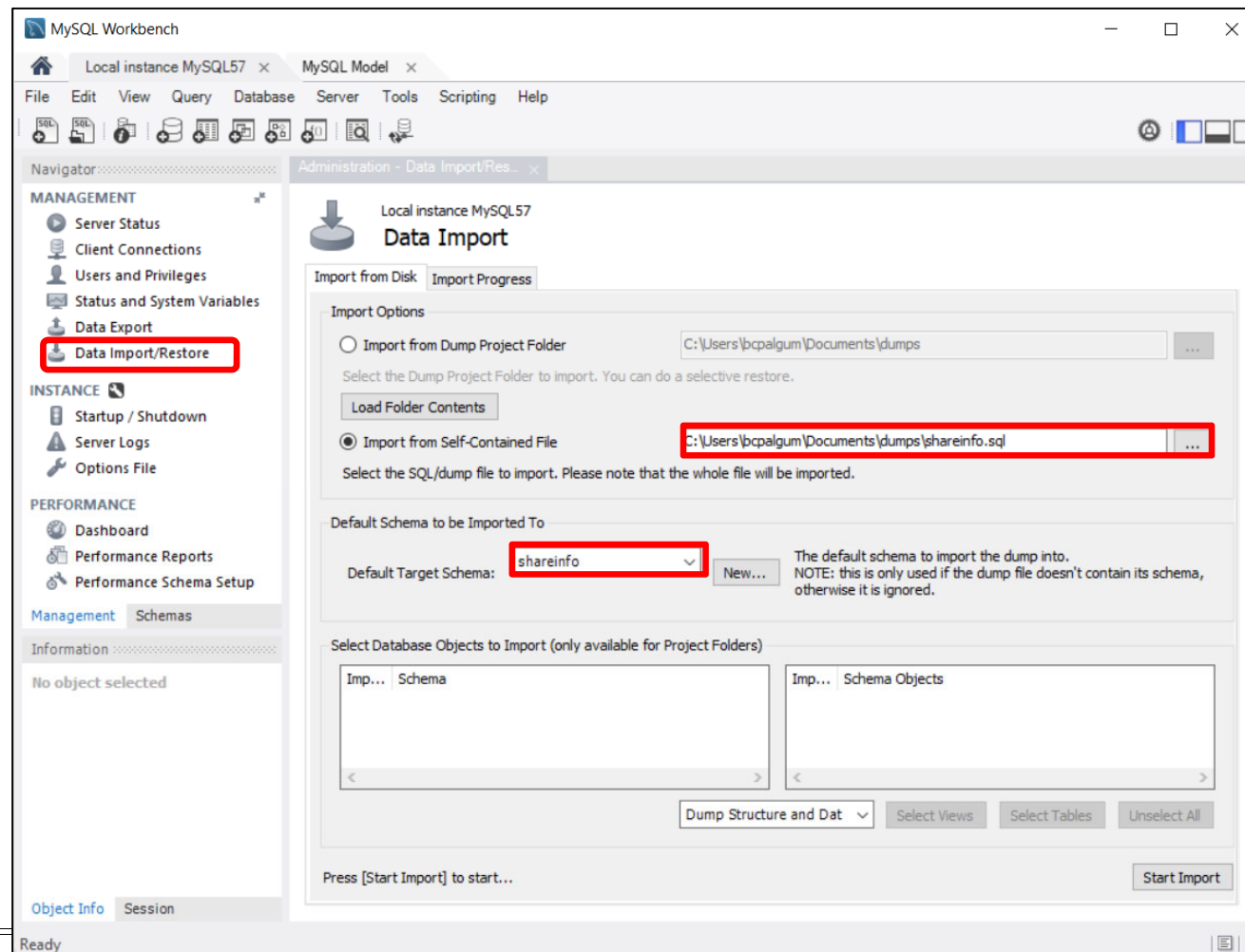
- ☒ **Standard System Account**
Recommended for most scenarios.
- ☐ **Custom User**
An existing user account can be selected for advanced scenarios.

At the bottom right of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

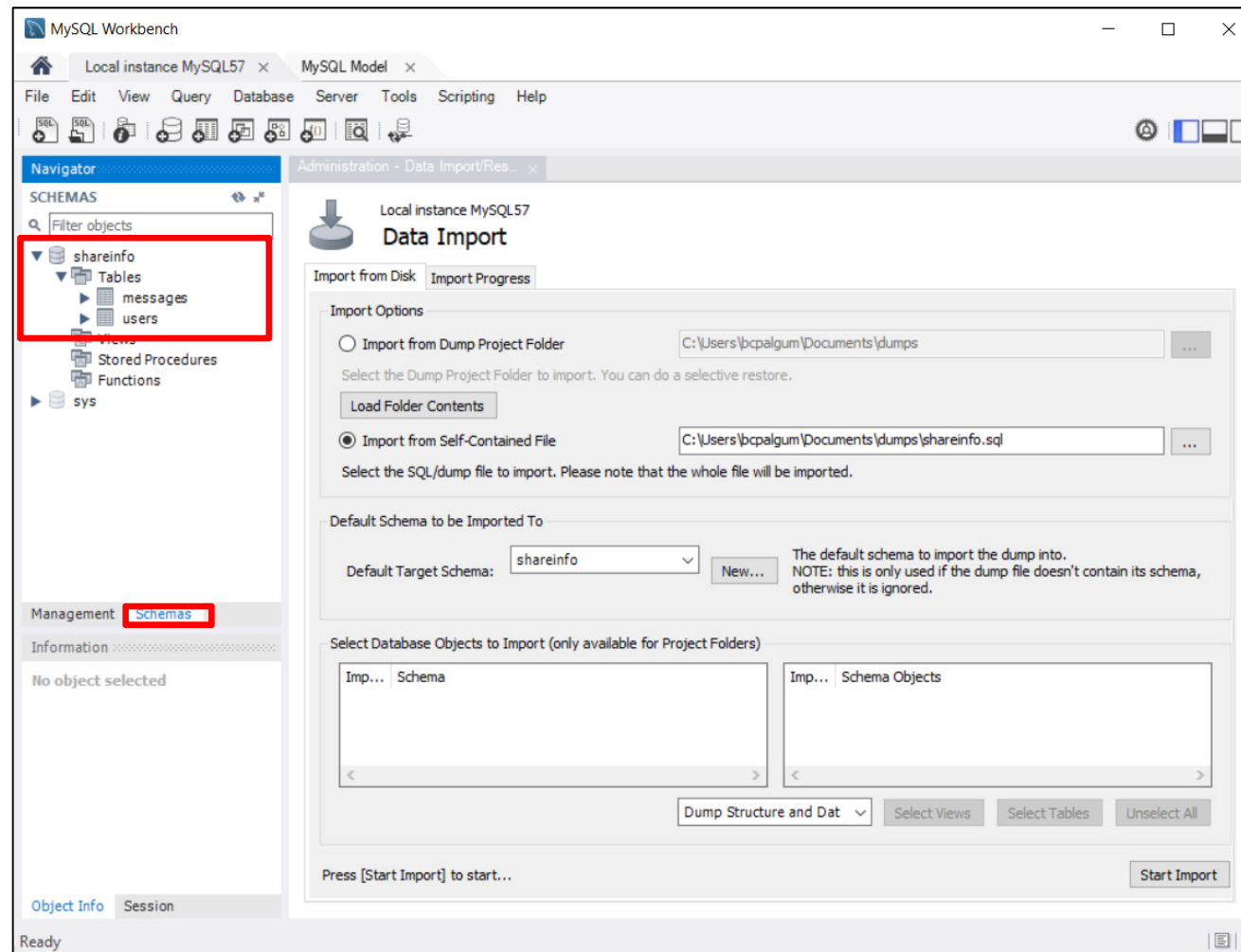
COMPROBACIÓN DEL SERVIDOR MySQL:

IMPORTAR BASE DE DATOS

- El fichero de volcado de la base de datos se encuentra en eGela.

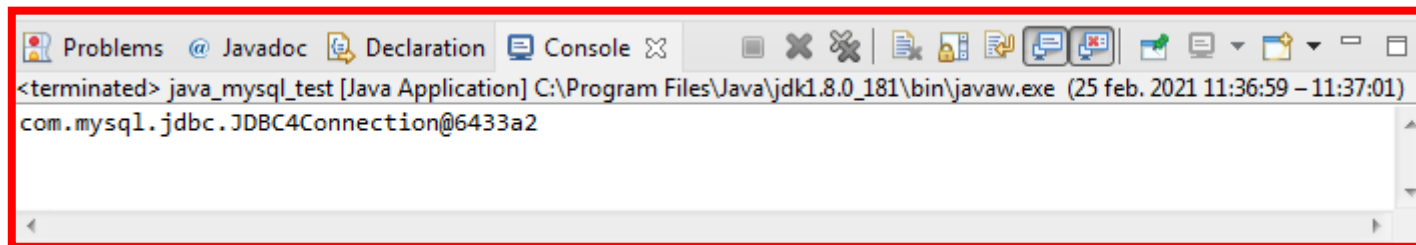


COMPROBACIÓN DEL SERVIDOR MySQL: IMPORTAR BASE DE DATOS



COMPROBACIÓN DE MYSQL CON JAVA

- Comprobar la conexión con Java:
 - Crear un proyecto Java
 - **Instalar el conector con MySQL:**
 - Crear directorio lib,
 - copiar en este directorio el conector *mysql-connector-j-8.0.32.jar* que se encuentra en
 - C:\Program Files (x86)\MySQL\Connector J 8.0
 - y añadirlo al *Build Path*.
 - Copiar *JavaMySQLtest.java* (en eGela) en src.
 - Compilar y ejecutar.



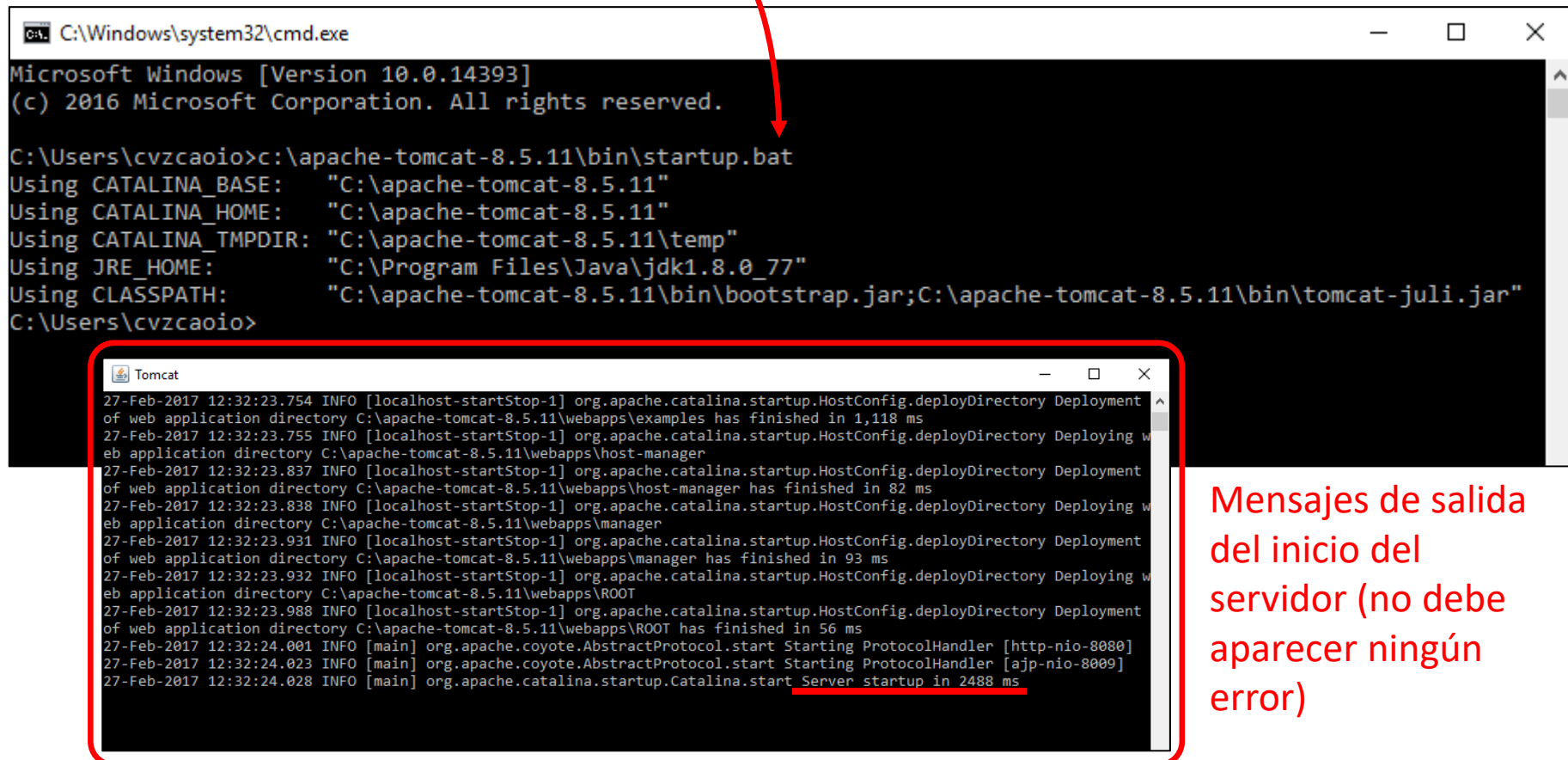
The screenshot shows an IDE console window with a red border. The title bar includes tabs for 'Problems', 'Javadoc', 'Declaration', and 'Console'. The console output shows a terminated Java application named 'java_mysql_test' running 'javaw.exe' on 25 Feb 2021 at 11:36:59. The output text is 'com.mysql.jdbc.JDBC4Connection@6433a2', indicating a successful connection to the MySQL database.

```
<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)  
com.mysql.jdbc.JDBC4Connection@6433a2
```

TOMCAT: INICIAR SERVIDOR

INICIAR servidor Tomcat:

CMD → \$CATALINA_HOME/bin/**startup**



The image shows two overlapping windows. The top 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 the configuration of CATALINA_BASE, CATALINA_HOME, CATALINA_TMPDIR, JRE_HOME, and CLASSPATH. A red arrow points from the 'startup' command in the text above to the 'startup.bat' command in the command prompt. The bottom window is a Tomcat log window titled 'Tomcat'. It displays a series of log messages from 27-Feb-2017 12:32:23.754 to 12:32:24.028. The messages show the deployment of web application directories and the starting of ProtocolHandlers. The final message is 'Server startup in 2488 ms'. A red box highlights the log window, and a red arrow points from the 'startup' command in the text above to the log window.

```
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.

