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# WEB SISTEMAK

## 2021/2022 IKASTURTEA

Garapen software-aren instalazioa

2022-02-25 M



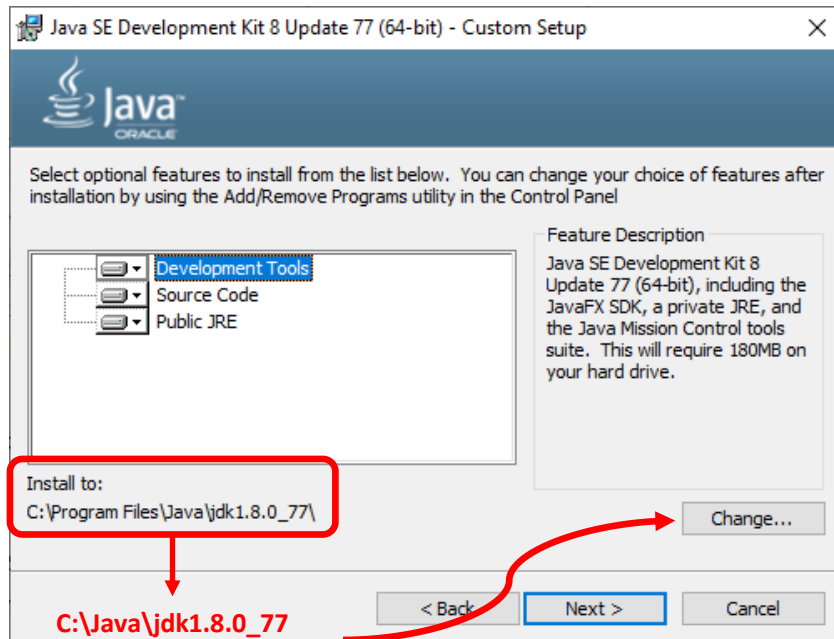
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# INSTALATU BEHARREKO SOFTWARE-A

- Java Development Environment (JDK)
  - JDK **C:\Java\jdk1.8.0\_77** direktorioan instalatu ezazue
  - JRE **C:\Java\jre1.8.0\_77** direktorioan instalatu ezazue
  - **JAVA\_HOME** ingurune aldagaia sortu, bere balioa **C:\Java\jdk1.8.0\_77** delarik
- IntelliJ
  - Instalatzaileak proposatutako direktorioan instalatu ezazue
- MySQL datu-base kudeatzailea
  - Setup type: *Developer default*. Check requirements: *Next* (ez instalatu pakete gehigarririk)
  - MySQL server configuration
    - Erabiltzailea: *root*. Pasahitza: *root*
    - Windows service (datu-basea zerbitzu bezela abiarazi daitela Windows-en abiaraztearekin batera)
      - *Configure MySQL server as a Windows service*
      - *Start MySQL server at system startup*
- Apache Tomcat web zerbitzaria
  - **C:\apache\_tomcat** direktorioan instalatu ezazue
  - **CATALINA\_HOME** ingurune aldagaia sortu, bere balioa **C:\apache\_tomcat** delarik
  - Egiaztapena:
    - cmd → C:\apache\_tomcat\bin\startup.bat
    - Nabigatzailean → <http://localhost:8080/>

Windows erabiltzen duzuenontzako,  
programak ehubox-en bilduta daude:  
<https://ehubox.ehu.eus/s/wNK2fxxkx9nYPzQ>

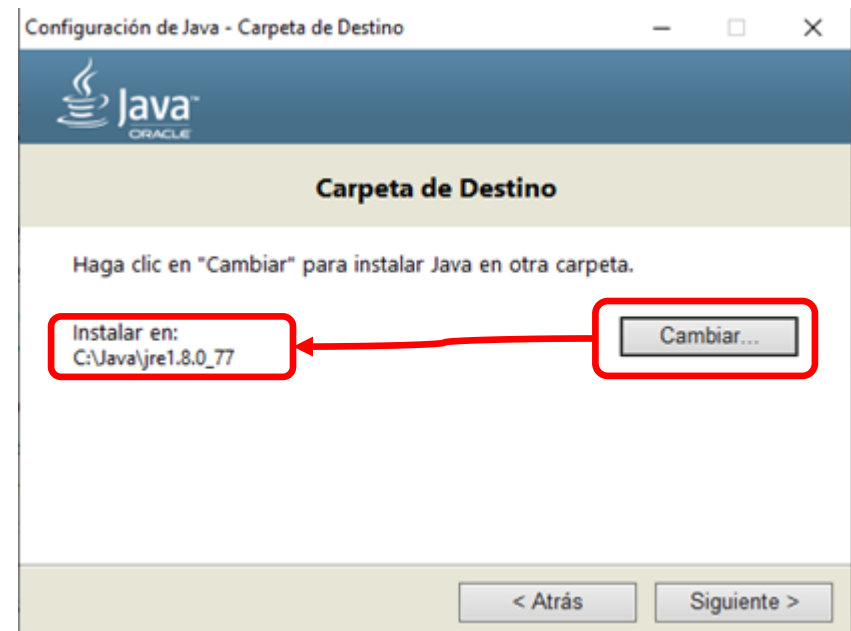
# JDK



**C:\Java\jdk1.8.0\_77**  
balioarengatik ordezkatu

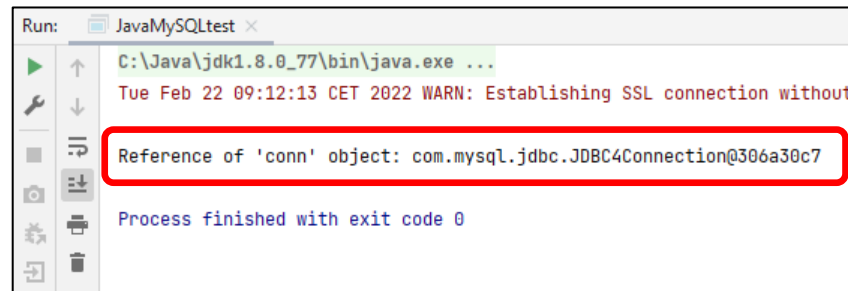
**JDK C:\Java\jdk1.8.0\_77**  
direktorioan instalatu

**JRE C:\Java\jre1.8.0\_77**  
direktorioan instalatu



# JAVA ETA MYSQL ARTEKO KONEXIOA EGIAZTATU

- MySQL konektorea C:\Java\lib direktorioan kopiatu:
  - MySQL Workbench 5.7 bertsioarentzako konektorea:  
*mysql-connector-java-5.1.38-bin.jar* (eGela-n)
  - MySQL Workbench beste bertsioentzako konektoreak:  
<https://dev.mysql.com/downloads/connector/j/>
- **ARIKETA:** IntelliJ-en datu basera konektatzen den Java main() bat programatu.
  - *Java* motako proiektu berria sortu
  - *src* azpidirektorioan *JavaMySQLtest.java* (eGela-n) kopiatu.
  - Konpilatu. Konpilazioak errorerik eman al du?
  - Exekutatu. Exekuzioak errorerik eman al du? Zergaitik? Zer egin behar da arazoa konpontzeko?

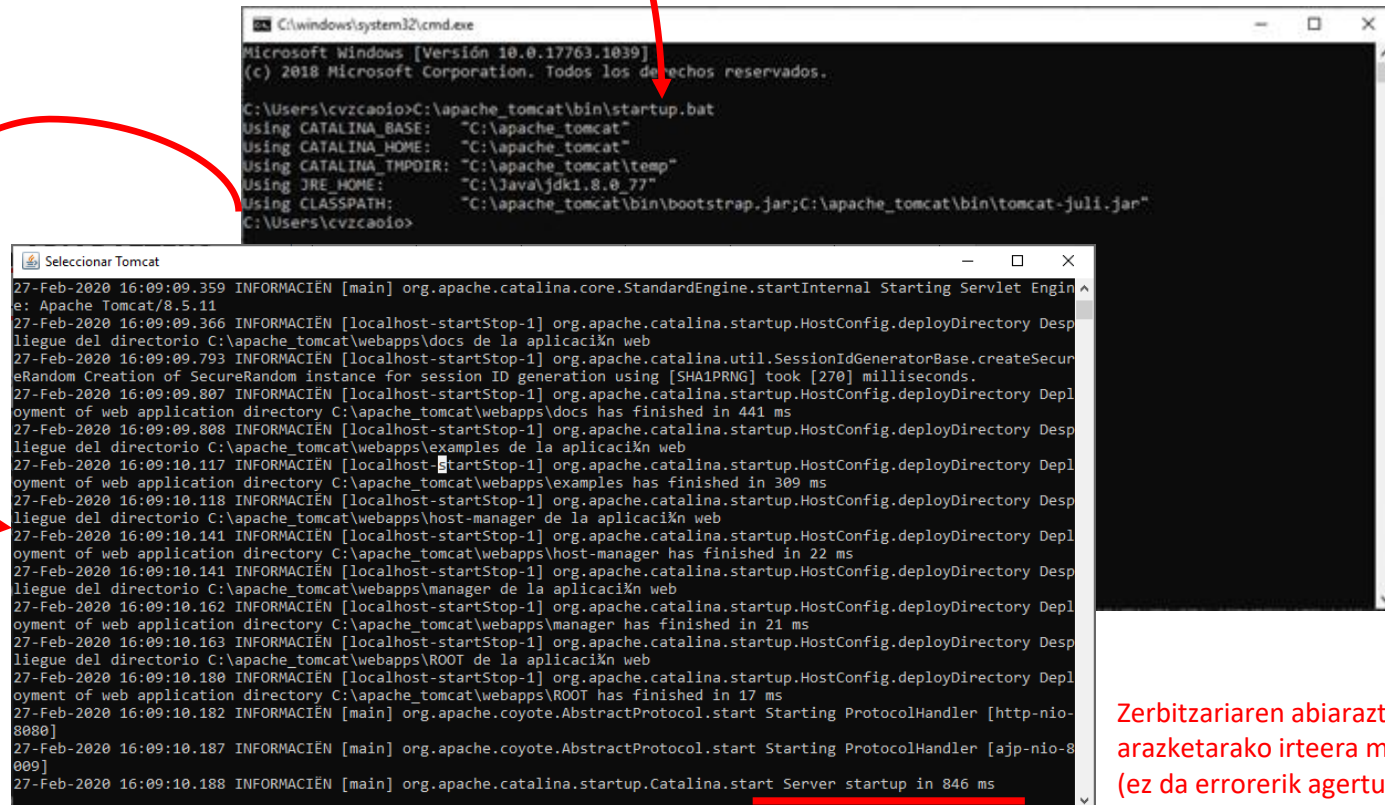


```
Run: JavaMySQLtest x
C:\Java\jdk1.8.0_77\bin\java.exe ...
Tue Feb 22 09:12:13 CET 2022 WARN: Establishing SSL connection without
Reference of 'conn' object: com.mysql.jdbc.JDBC4Connection@306a30c7
Process finished with exit code 0
```

# TOMCAT: ABIARAZTEA

## Tomcat web zerbitzaria ABIARAZTEKO:

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 command 'C:\Users\cvzcaio>C:\apache\_tomcat\bin\startup.bat' and its output, which includes environment variables like CATALINA\_BASE, CATALINA\_HOME, CATALINA\_TMPDIR, JRE\_HOME, and CLASSPATH. The bottom window is titled 'Seleccionar Tomcat' and shows a log of the Tomcat startup process. The log includes timestamps and messages from the StandardEngine, HostConfig, and Coyote components, indicating the successful deployment of web applications and the start of the server.

```
C:\windows\system32\cmd.exe
Microsoft Windows [Versión 10.0.17763.1039]
(c) 2018 Microsoft Corporation. Todos los derechos reservados.

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

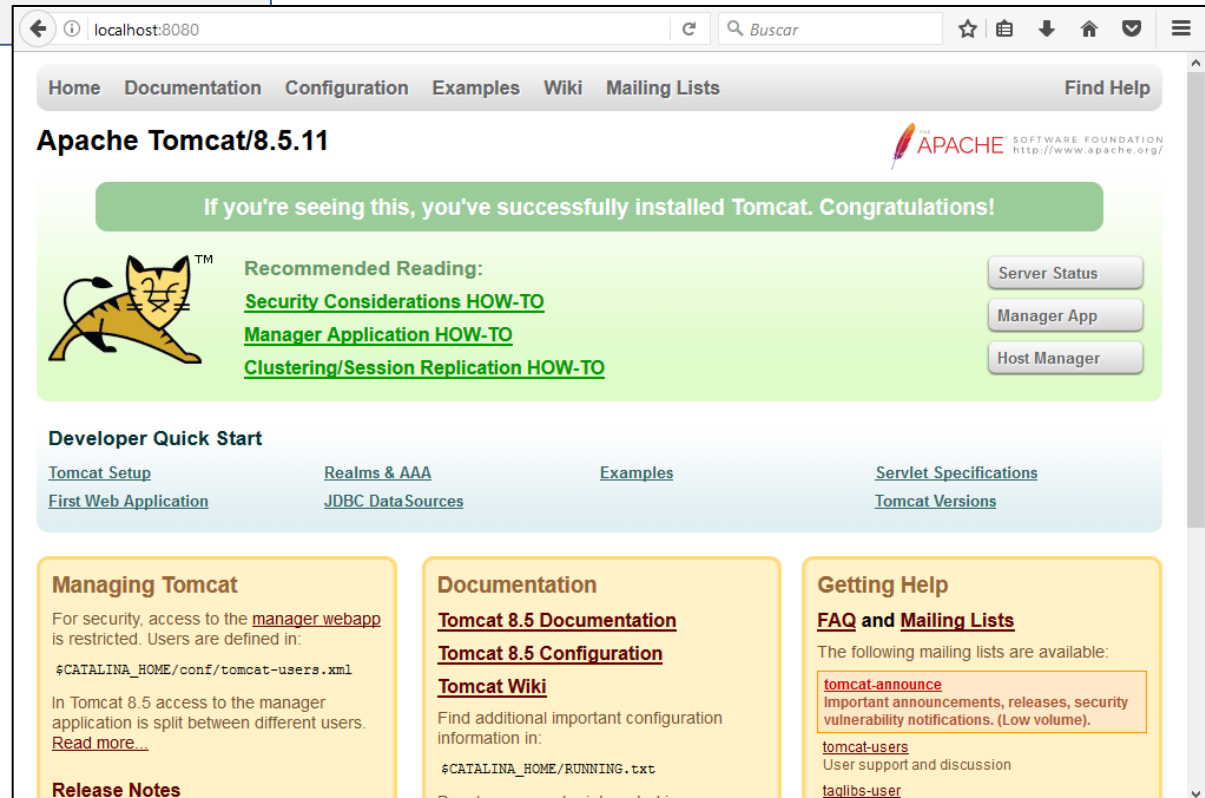
```
Seleccionar Tomcat
27-Feb-2020 16:09:09.359 INFORMACIEN [main] org.apache.catalina.core.StandardEngine.startInternal Starting Servlet Engine
e: Apache Tomcat/8.5.11
27-Feb-2020 16:09:09.366 INFORMACIEN [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Desp
liegue del directorio C:\apache_tomcat\webapps\docs de la aplicaci n web
27-Feb-2020 16:09:09.793 INFORMACIEN [localhost-startStop-1] org.apache.catalina.util.SessionIdGeneratorBase.createSecur
eRandom Creation of SecureRandom instance for session ID generation using [SHA1PRNG] took [270] milliseconds.
27-Feb-2020 16:09:09.807 INFORMACIEN [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Depl
oyment of web application directory C:\apache_tomcat\webapps\docs has finished in 441 ms
27-Feb-2020 16:09:09.808 INFORMACIEN [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Desp
liegue del directorio C:\apache_tomcat\webapps\examples de la aplicaci n web
27-Feb-2020 16:09:10.117 INFORMACIEN [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Depl
oyment of web application directory C:\apache_tomcat\webapps\examples has finished in 309 ms
27-Feb-2020 16:09:10.118 INFORMACIEN [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Desp
liegue del directorio C:\apache_tomcat\webapps\host-manager de la aplicaci n web
27-Feb-2020 16:09:10.141 INFORMACIEN [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Depl
oyment of web application directory C:\apache_tomcat\webapps\host-manager has finished in 22 ms
27-Feb-2020 16:09:10.141 INFORMACIEN [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Desp
liegue del directorio C:\apache_tomcat\webapps\manager de la aplicaci n web
27-Feb-2020 16:09:10.162 INFORMACIEN [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Depl
oyment of web application directory C:\apache_tomcat\webapps\manager has finished in 21 ms
27-Feb-2020 16:09:10.163 INFORMACIEN [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Desp
liegue del directorio C:\apache_tomcat\webapps\ROOT de la aplicaci n web
27-Feb-2020 16:09:10.180 INFORMACIEN [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Depl
oyment of web application directory C:\apache_tomcat\webapps\ROOT has finished in 17 ms
27-Feb-2020 16:09:10.182 INFORMACIEN [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler [http-nio-
8080]
27-Feb-2020 16:09:10.187 INFORMACIEN [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler [ajp-nio-8
009]
27-Feb-2020 16:09:10.188 INFORMACIEN [main] org.apache.catalina.startup.Catalina.start Server startup in 846 ms
```

Zerbitzariaren abiaraztearen arazketarako irteera mezuak (ez da errorerik agertu behar)

# TOMCAT: EGI AZTAPENA

## Tomcat ondo abiarazi dela egiaztatzeko:

Nabigatzailean <http://localhost:8080> URI-a eskatu eta Tomcat-en ongi etorri orria bistaratzen dela egiaztatu.



# TOMCAT: INTELLIJ-EKIN INTEGRATU

## Tomcat IntelliJ-tik zuzenean erabiltzeko:

### Integration with application servers:

<https://www.jetbrains.com/help/idea/configuring-and-managing-application-server-integration.html>

## IntelliJ-en web aplikazioak sortzeko:

