

How to add Oracle JDBC driver in your Maven local repository

By [mkyong](#) | April 21, 2011 | Updated : June 20, 2019 | Viewed : 582,383 | +4,438 pv/w

Here’s a simple guide to show you how to add an Oracle JDBC driver into your Maven local repository, and also how to reference it in `pom.xml`

Tested with Oracle database 19c and Java 8

Note

Due to Oracle license restrictions, the Oracle JDBC driver is not available in the public Maven repository. To use the Oracle JDBC driver with Maven, you have to download and install it into your Maven local repository manually.

1. Get Oracle JDBC Driver

Note

Read this [What are the Oracle JDBC releases Vs JDK versions?](#)

Visit [Oracle database website](#) and download it.



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Oracle Database 19c (19.3) JDBC Driver and UCP Downloads

Get the Zipped JDBC Driver and Companion JARs

📄 [ojdbc10-full.tar.gz](#) This archive contains the latest 19.3 JDBC Thin driver ([ojdbc10.jar](#)), the Universal Connection Pool ([ucp.jar](#)), their Readme(s) and companion jars.

(8,051,416 bytes) - (SHA1: 895ba2f2f18544b0a6f4f1ea6f1d8548b8af0671)

Get the Zipped JDBC Driver and Companion JARs

📄 [ojdbc8-full.tar.gz](#) This archive contains the latest 19.3 JDBC Thin driver ([ojdbc8.jar](#)), the Universal Connection Pool ([ucp.jar](#)), their Readme(s) and companion jars.

(8,019,409 bytes) - (SHA1: 15cc955b15dd16d8f3647b8965922333b8e2675e)

OR

The Unzipped JDBC Driver and Companion JARs

The JARs included in the [ojdbc10-full.tar.gz](#) and [ojdbc8-full.tar.gz](#) are also available as individual downloads in this section.

📄 [ojdbc10.jar](#) - Certified with JDK10; Oracle JDBC driver except classes for NLS support in Oracle Object and Collection types

(4,243,140 bytes - SHA1: bba59347e68c9416d14fcc9a9209e869f842e48d)

📄 [ojdbc8.jar](#) - Certified with JDK8; Oracle JDBC driver except classes for NLS support in Oracle Object and Collection types

(4,210,517 bytes - SHA1: 967c0b1a2d5b1435324de34a9b8018d294f8f47b)

📄 [ucp.jar](#) the Universal Connection Pool

(1,680,074 bytes - SHA1: 796b661b0bb1818b7c04171837356acddcea504c)

In this example, we selected Oracle database 19c and [ojdbc8.jar](#) for Java 8 project.

Note

Alternatively, you can get the Oracle JDBC driver from the Oracle database installed folder, for example:

```
{ORACLE_HOME}\jdbc\lib\ojdbc8.jar
```

2. Maven Install ojdbc8.jar

2.1 Upload or install the downloaded [ojdbc.jar](#) into the Maven local repository.

ojdbc8.jar

```
$ mvn install:install-file -Dfile=path/to/your/ojdbc8.jar -DgroupId=com.oracle
-DartifactId=ojdbc8 -Dversion=19.3 -Dpackaging=jar
```

For older version.

ojdbc7.jar

```
$ mvn install:install-file -Dfile=path/to/your/ojdbc7.jar -DgroupId=com.oracle
-DartifactId=ojdbc7 -Dversion=12.2.0.1 -Dpackaging=jar
```

ojdbc6.jar

```
$ mvn install:install-file -Dfile=path/to/your/ojdbc6.jar -DgroupId=com.oracle
-DartifactId=ojdbc6 -Dversion=11.2.0.4 -Dpackaging=jar
```

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Terminal

```
C:\> mvn install:install-file -Dfile=d:/projects/ojdbc8.jar -DgroupId=com.oracle -DartifactId=ojdbc8 -Dversion=19.3 -Dpackaging=jar
[INFO] Scanning for projects...
[INFO]
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO]
[INFO] --- maven-install-plugin:2.4:install-file (default-cli) @ standalone-pom ---
[INFO] Installing d:\projects\ojdbc8.jar to C:\Users\mkyong\.m2\repository\com\oracle\ojdbc8\19.3\ojdbc8-19.3.jar
[INFO] Installing C:\Users\mkyong\AppData\Local\Temp\mvninstall14285592711568231406.pom
       to C:\Users\mkyong\.m2\repository\com\oracle\ojdbc8\19.3\ojdbc8-19.3.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time:  0.872 s
[INFO] Finished at: 2019-06-20T12:36:18+08:00
[INFO] -----
```

3. pom.xml

Now, we can define the Oracle JDBC driver dependency like this:

pom.xml

```
<dependency>
  <groupId>com.oracle</groupId>
  <artifactId>ojdbc8</artifactId>
  <version>19.3</version>
</dependency>
```

For older version:

pom.xml

```
<!-- ojdbc7.jar -->
<dependency>
  <groupId>com.oracle</groupId>
  <artifactId>ojdbc7</artifactId>
  <version>12.2.0.1</version>
</dependency>

<!-- ojdbc6.jar -->
<dependency>
  <groupId>com.oracle</groupId>
  <artifactId>ojdbc6</artifactId>
  <version>11.2.0.4</version>
</dependency>
```

4. System Path

Alternatively, we can just download the .jar and tell the project to find the .jar in the system path like this:

pom.xml

```
<dependency>
```

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pom.xml

```
<dependency>
  <groupId>com.oracle</groupId>
  <artifactId>ojdbc</artifactId>
  <version>8</version>
  <scope>system</scope>
  <systemPath>${project.basedir}/lib/ojdbc8.jar</systemPath>
</dependency>
```

Download Source Code

```
$ git clone https://github.com/mkyong/java-jdbc.git
```

References

- [Oracle FAQs – Which version of JDBC drivers are supported?](#)
- [Get Oracle JDBC drivers and UCP from Oracle Maven Repository.](#)
- [What are the Oracle JDBC releases Vs JDK versions?](#)
- [How to include custom library into maven local repository?](#)

jdbc

jdbc driver

maven

maven repository.

oracle

About the Author



mkyong

Founder of [Mkyong.com](#), love Java and open source stuff. Follow him on [Twitter](#). If you like my tutorials, consider make a donation to [these charities](#).

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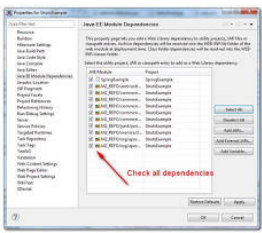
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maven – Mkyong.com



Maven dependency libraries not deploy in Eclipse IDE



Gradle – Spring 4 MVC Hello World Example



How to add M2_REPO classpath variable to Eclipse IDE

Applications		
Path	Version	Display Name
/	None specified	Welcome to Tomcat
/docs	None specified	Tomcat Documentation
/examples	None specified	Servlet and JSP Examples
/host-manager	None specified	Tomcat Host Manager Application

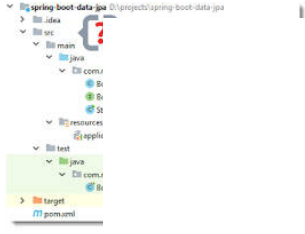
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KingFeming

If you want ojdbc, What you can do is download the ojdbc6.jar and include it as a “Web App Libraries” by Right Clicking your project and select java build path and under Libraries select Add external jars and select the location to the jar that you have downloaded (ojdbc6.jar).

Please not this instruction is given for Eclipse.

+ 8 -

Reply

🕒 4 years ago ▲

mkyong

Alternative, you can define a system scope like this:

<dependency>
<groupId>com.oracle</groupId>
<artifactId>ojdbc</artifactId>
<version>8</version>
<scope>system</scope>
<systemPath>\${project.basedir}/lib/ojdbc8.jar</systemPath>
</dependency>

+ 1 -

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neha

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Yuli
I have the similar issue say this “artifactId missing”

Guest

+ -3 -

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Guest
I believe it is because oracle does not allow their driver to be on maven repo site anymore. Need to be added manually. (Or so I believe)

Guest

+ 0 -

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🕒 1 year ago



IZMAR
After running the command you need to do a maven->update project

Guest

+ 0 -

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🕒 4 months ago



mkyong
Please **install** the jar file manually:
`mvn install:install-file -Dfile=path/to/your/ojdbc8.jar -DgroupId=com.oracle -DartifactId=ojdbc8 -Dversion=19.3 -Dpackaging=jar`

Author

+ 1 -

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🕒 1 month ago



Daniel
Thank you so much! All your post are amazing!

Guest

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Dozer
Thank you for sharing!

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🗨 Reply

🕒 2 years ago



AP
thanks lot

Guest

+ 0 -

🗨 Reply

🕒 2 years ago



Johnny O
I want to recommend you’re an excellent resource, thanks mkyong !!

Guest

+ 0 -

🗨 Reply

🕒 3 years ago



Pablo Gilvan
Thank you, you saved me.

Guest

+ 0 -

🗨 Reply

🕒 3 years ago

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guache

Thanks so much dude! All your work are so great! Keep it up! :D

+ 0 -

Reply

4 years ago



Guest

March per l'Unione Europea

Great!!

+ 0 -

Reply

4 years ago



Guest

Waseem

Thanks, very helpful

+ 0 -

Reply

4 years ago



Guest

Guest

am getting this error ..please help me out :-
mvn install:install-file -Dfile=D:oraclexeapporacleproduct11.2.0serverjdbc6 -
DgroupId=com.oracle -DartifactId=ojdbc6 -
Dversion=11.2.0 -Dpackaging=jar

+ 0 -

Reply

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Deb's Desk – Maven 3 + Hibernate 3.6 + Oracle 11g Example (XML Mapping)

[...] For Oracle JDBC Driver Read this guide – How to add Oracle JDBC driver in your Maven local repository [...]

+ 0 -

Reply

5 years ago



Guest

Oik

I'm newbie in this framework. can you tell me where i should execute mvn install command in windows?

+ 0 -

Reply

5 years ago



Guest

Ankur Saxena

try out in cmd..dos prompt

+ 0 -

Reply

4 years ago



Guest

RM

Genius. Thanks!

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Reply

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Vijay Kumar

Thanks. It was wonderful!

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Reply

5 years ago

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Oracle 11 XE & JDBC | Li Guoliang

[...] [http://www.mkyong.com/maven/how-to-add-oracle-jdbc-driver-in-your-maven-local-repository/] [...]

+ 0 -

Reply

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paiker

I am getting the below exception, could you please suggest.

[ERROR] Failed to execute goal on project SpringExamplesDAO: Could not resolve dependencies for project com.mkyong.common:SpringExamplesDAO:jar:1.0-SNAPSHOT: Could not find artifact com.oracle:ojdbc6:jar:11.2.0 in central (<http://repo.maven.apache.org/maven2>) -> [Help 1]

Though i already installed ojdbc6.jar in local .m2

+ 0 -

Reply

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paiker

Can anyone please help me as , my maven is not picking up the com.oracle:ojdbc6:jar:11.2.0 jar from local repository within .m2/

It is pointing to maven repository from internet and it doesn't find jar there, though i have registered it there in .m2/ with the help of above procedure

+ 0 -

Reply

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paiker

Guys,

Problem has been solved now, there was some version problem, I had jdk1.6 with maven-3.0.4.

Now i have installed Maven 2.2.1, and problem has been solved.

Thanks

+ 0 -

Reply

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install driver oracle ojdbc14-9i ke dalam maven repo | saifiahmada

[...] [1] <http://www.mkyong.com/maven/how-to-add-oracle-jdbc-driver-in-your-maven-local-repository/> [2] [...]

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[...] <http://www.mkyong.com/maven/how-to-add-oracle-jdbc-driver-in-your-maven-local-repository/> [...]

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Reply

🕒 6 years ago



mano

Hi mkyong...

the jdbc driver jar is not getting installed in m2 repository when i am executing the command ..

mvn install:install-file -Dfile=C:\app\msarilla\product\11.2.0\dbhome_2\jdbc\lib\ojdbc6.jar -DgroupId=com.oracle -DartifactId=ojdbc6 -Dversion=11.2.0 -Dpackaging=jar -DgeneratePom=true

when i execute the command the build was successful but the ojdbc6 file is not installed to the m2 repo.

i am getting the following message in the build console:

[INFO] Installing C:\apache-maven-3.0.4\bin\ojdbc6.jar to C:\Users\msarilla\.m2\repository\com\oracle\oidbc6\11.2.0\oidbc6-11.2.0.iar

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anamika mishra

why not simply add the following repository to your project

```
<repositories>
  <repository>
    <id>codeIds</id>
    <url>https://code.lds.org/nexus/content/groups/main-repo</url>
  </repository>
</repositories>
```

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🕒 6 years ago



Guest

Dauka

Thank you! You helped me out ^_^

+ 0 – [Reply](#)

🕒 6 years ago



Guest

Balamurugan

Hi,
I have the same problem what sajid is facing. Anyting specific, do I need to do?

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Guest

sajid

Hi, i completed the steps above, but still facing ‘Missing artifact com.oracle:ojdbc6:jar:11.2.0.3:compile’.
Also, after step 2, i think the jar file should be automatically placed in repository, but it doesnt happen and i can see only
_maven.repositories, ojdbc6-11.2.0.3.pom and ojdbc6-11.2.0.3.jar.lastUpdated. Is there anything that i am missing.

Thanks.
sajid

+ 0 – [Reply](#)

🕒 6 years ago



Guest

Ben Weaver

This and other pages you have put are excellent. Very practical and clear–real time-savers. Thank you.

+ 0 – [Reply](#)

🕒 6 years ago



Guest

JAY

This article is nice and simple to understand.

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🕒 7 years ago



Guest

elres

???????????? ???? ?????? ?????????????? ? ??????

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🕒 7 years ago



Maven 3 + Hibernate 3.6 + Oracle 11g Example (XML Mapping)

[...] For Oracle JDBC driver, you need to install it into your local maven repository manually. For Oracle JDBC Driver Read this guide –

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Mkyong.com is created, written by, and maintained by Yong Mook Kim, aka Mkyong.

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