

INSTALLING ORACLE JDBC-DRIVER ON WILDFLY / JBOSS

1. **Download** the driver: `ojdbc[VERSION].jar`
2. Create subfolders `[WILDFLY_HOME]/modules/system/layers/base/com/oracle/main/`
3. Copy the downloaded `ojdbc[VERSION].jar` into the freshly created folder
4. Create a file `module.xml`, in the same folder as above, with the contents:

```
<module xmlns="urn:jboss:module:1.1" name="com.oracle">
  <resources>
    <resource-root path="ojdbc[VERSION].jar"/>
  </resources>
  <dependencies>
    <module name="javax.api"/>
    <module name="javax.transaction.api"/>
  </dependencies>
</module>
```

5. In the configuration file `standalone.xml` add the entry:

```
<driver name="oracle" module="com.oracle">
  <driver-class>oracle.jdbc.driver.OracleDriver</driver-class>
</driver>
```

within the `<drivers>` tag.

6. Add a datasource definition within the `<datasources>` tag (next to `ExampleDS`):

```
<datasource jndi-name="java:[NAME]" pool-name="OracleDS" enabled="true">
  <connection-url>jdbc:oracle:thin:@[HOST_NAME]:1521:[SID]</connection-url>
  <driver>oracle[has to match the driver name]</driver>
  <pool>
    <min-pool-size>1</min-pool-size>
    <max-pool-size>5</max-pool-size>
    <prefill>true</prefill>
  </pool>
  <security>
    <user-name>[USER]</user-name>
    <password>[PWD]</password>
```

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</security>
</datasource>

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Posted at 06:00PM Mar 26, 2015 by [Adam Bien](#), [Comments\[18\]](#) | Views/Hits: 32840

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COMMENTS:

Hi Adam,

Could be done through scripting as well as discussed in the workshop :)

#To create the module (not part of the batch)

```
module add --name=com.oracle --resources=[path-to-driver]/ojdbc6.jar --dependencies=javax.api,javax.transaction.api
```

batch

```
/subsystem=datasources/jdbc-driver=oracle:add(driver-name=oracle,driver-module-name=com.oracle,driver-xa-datasource-class-name=oracle.jdbc.driver.OracleDriver)
```

```
/subsystem=datasources/data-source="[NAME]":add(jta="true",use-ccm="true",use-java-context="true",enabled="true",jndi-name=java:/jdbc/[NAME],max-pool-size=10,min-pool-size=5,flush-strategy="FailingConnectionOnly",driver-name=oracle,connection-url=jdbc:oracle:thin:@[HOST_NAME]:1521:[SID],user-name="[user]",password="[password]")
```

run-batch

Posted by [jean-noel](#) on March 26, 2015 at 07:06 PM CET #

Hi Adam,

[blog archives](#)

ONLINE WORKSHOPS



why ojdbc6.jar and no ojdbc7.jar?
Thank you for this blog.

Kai

Posted by **Kai** on March 26, 2015 at 10:08 PM CET #

oracle.jdbc.OracleDriver have to be used since Oracle 9i !

oracle.jdbc.driver.OracleDriver is deprecated and causes problems in some circumstances.

Posted by **Karsten** on March 27, 2015 at 07:38 AM CET #

Hi Adam,

it can be done via jboss-cli.

<https://gist.github.com/pehunka/5d0eb97b23168a65bdb7>

I'm having the whole development box with automation of postgres and oracle dbs as well as jdks and few appservers. I can open-sourced, if somebody will be interested :-)

Cheers,
Petr

Posted by **Petr** on March 27, 2015 at 09:48 AM CET #

My memory isn't really a thing but can't you just add it via the admin console? I guess it gets automatically detected as a JDBC driver and you can just setup the connection via the UI as well

Posted by **Solerman Kaplon** on April 01, 2015 at 04:23 PM CEST #

Hi Adam,

to adhere to wildfly's common module conventions i would propose "oracle.jdbc" as module name instead of "com.oracle" since this is the package prefix of the classes within the jar.

The module's folder would thus of course be: oracle/jdbc/main/

Just to be sure ;-)
Bye!

Posted by **Heli** on May 18, 2015 at 09:35 PM CEST #

The base folder for 3rd party modules isn't [WILDFLY_HOME]/modules/system/layers/base. It's just [WILDFLY_HOME]/modules/. Then you immediately continue with e.g. com/oracle/main/

Posted by **Juergen Zimmermann** on June 05, 2015 at 06:04 AM CEST #

what do you need to do if the database you want to connect to requires you to connect to it via ssl? I have the proper certs and they are already in the a keystore since I've set this up in glassfish before, but I cant find anything about what I need to do to make this happen with wildfly



Posted by **brett** on June 18, 2015 at 03:53 AM CEST #

Hi Admin,

How to Add Datasource from web ?

Any Idea ? If so, can you post here or send by to my mail.

Thank you.
Rajkumar Samala

Posted by **Rajkumar Samala** on July 14, 2015 at 09:11 AM CEST #

Thank you!

Posted by **Anderson David de Souza** on February 29, 2016 at 05:49 PM CET #

Hi, I have downloaded ojdbc7.jar
make the same as described above but get error:

```
09:58:19,416 ERROR [org.jboss.as.controller.management-operation] (Controller Boot Thread) WFLYCTL0013: Operation ("add")
failed - address: ([
("subsystem" => "datasources"),
("data-source" => "OracleDS")
]) - failure description: {"WFLYCTL0180: Services with missing/unavailable dependencies" => [
"org.wildfly.data-source.OracleDS is missing [jboss.jdbc-driver.ojdbc7_jar]",
"jboss.driver-demander.java:/jdbc/VZAJEMNAPRODDS is missing [jboss.jdbc-driver.ojdbc7_jar]"
]}
09:58:19,422 ERROR [org.jboss.as.controller.management-operation] (Controller Boot Thread) WFLYCTL0013: Operation ("add")
failed - address: ([
("subsystem" => "datasources"),
("data-source" => "OracleDS")
]) - failure description: {"WFLYCTL0180: Services with missing/unavailable dependencies" => [
"org.wildfly.data-source.OracleDS is missing [jboss.jdbc-driver.ojdbc7_jar]",
"jboss.driver-demander.java:/jdbc/VZAJEMNAPRODDS is missing [jboss.jdbc-driver.ojdbc7_jar]",
"org.wildfly.data-source.OracleDS is missing [jboss.jdbc-driver.ojdbc7_jar]"
]}
09:58:19,485 INFO [org.jboss.as.controller] (Controller Boot Thread) WFLYCTL0183: Service status report
WFLYCTL0184: New missing/unsatisfied dependencies:
service jboss.jdbc-driver.ojdbc7_jar (missing) dependents: [service jboss.driver-demander.java:/jdbc/VZAJEMNAPRODDS, service
org.wildfly.data-source.OracleDS]
```

thank you for any info..

Posted by **Peter** on June 02, 2016 at 09:58 AM CEST #

There is an error on this tutorial.

Here the correct lines on standalone.xml or standalone-full.xml



You need to add .jdbc on the module so com.oracle.jdbc

driver name="oracle" module="com.oracle.jdbc"

Posted by **Gauthier** on August 22, 2016 at 06:36 PM CEST #

I just hate how it so much complex to do such a simple thing. Why not just drop the library (and all its dependencies if there are some) in a /common/lib directory and basta?!

D.

Posted by **Daniel W.** on October 12, 2016 at 01:58 PM CEST #

Thank you for this guideline, it helped me a lot!

Posted by **Carlos** on November 09, 2016 at 09:54 AM CET #

It's not normally necessary to install JDBC drivers as modules. The JDBC driver jar can be deployed as a jar using the CLI or by simply copying it into the "deployments" directory.

Possible reasons for using a module definition instead include:

- a) the driver is dependent upon other jars;
- b) your server hosts multiple applications that are dependent upon different versions of the same vendor's driver

Posted by **Steve Coy** on November 28, 2016 at 12:21 PM CET #

Good post.Thank you very much.

Posted by **Shalika** on May 05, 2017 at 06:43 AM CEST #

It worked in Wildfly 11 as well. Thanks

Posted by **Lorenzo** on December 13, 2017 at 03:15 PM CET #

The guys who design this has to be on drugs. I never saw something complex and unpredictable like Java EE. There is little change in every version and you basically don't code anymore, you configure and looking in manuals, what magic which property does...grrr

Posted by **Martin** on January 08, 2018 at 03:03 PM CET #

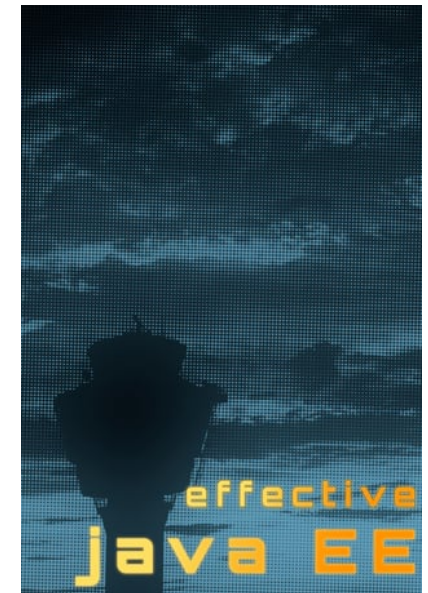
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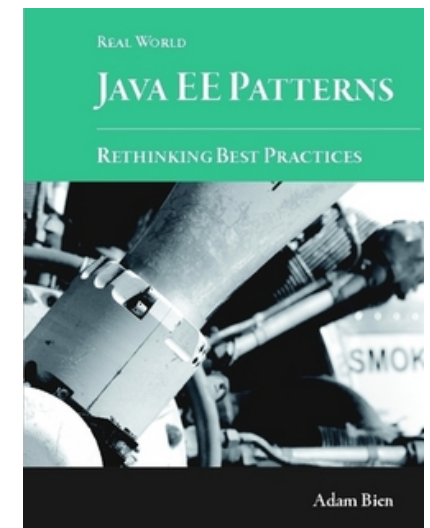
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The Simplest Possible Web Component (CustomElement)
Custom Map Updates without Null Checks: Map#merge
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Threads, Transactions, EntityManager, Fluid Logic, Quarkus, AMQP and Jakarta EE -- the 67th airhacks.tv
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JUG MUC / OpenValue, JUG Thuringen, EclipseCon, W-JAX, SOU Java, Java Forum Nord, JCON, Apeldoorn IT and airhacks.com 2019 events
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Shipping Fallback Scripts with "nomodule"
Unidirectional Dataflow with
WebComponents, async fetch and
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A Lean "Core Insurance As A Service"
(Java EE / Jakarta EE / MicroProfile)
Startup--airhacks.fm podcast
Quarkus JAX-RS Service With CORS
Support
Payara, "java.lang.NoSuchMethodError:
com.google.common.collect..." Problem
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Timer
JAX-RS: Parameter to Object Mapping
#slideless #nomigrations Workshops,
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Plugging Things Together With Reactive
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Listening to CustomEvents with lit-html
VSC Config, Singleton Concurrency,
Supply Chain Management, BCE,
MicroServices, OSGi, Service Registries-
-64th airhacks.tv
Identifying Deployment Errors at Build Time
With Quarkus

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Adding External NPM JavaScript
Dependencies as ES 6 Modules
Json Web Token Generator - JWTenizr.sh
0.0.3 released
Java's Job Listings, JWT, Kafka,
Serverless, Streaming, JARs in WARs,
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Securing JAX-RS Endpoints with JWT
From Webscale Java over CDI to javax--
airhacks.fm Podcast
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MicroProfile Applications
javax and future of Jakarta EE, TX,
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80% Code Coverage is Not Enough--
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MicroProfile and Jakarta EE -- The
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ThinJARs with quarkus.io on Docker
MicroProfile: @Counted vs. @Gauge
JAX-RS, CDI: native executable vs. JVM
with quarkus.io
Supersonic, Subatomic Java (EE) --
SkimmedJARs with quarkus.io

...THE LAST 10 COMMENTS

Michał wrote:

The BiFunction in Map::merge can be substituted with Integer::sum method reference in this case, for further code amount reduction. But it might b[...]

Werner wrote:

The equivalent old style version has to add oldValue and NewValue together when oldValue is not equal to Null

Ben wrote:

Many thanks! This works as an easy way like Spring Boot to get projects up and running quickly

FStarred wrote:

Not at all.
I still use an abstract class with class type and ID for generic methods such findById, findAll, merge, etc, in this way I don't [...]

Gabriel wrote:

Hi, I have set already the "/etc/hosts" with the localhost IP, but the problem still. I tried change the default 4848 port but with the [...]

Luca wrote:

Kenai is no more. Would you care to upload the code to Github? Thanks.

zemiak wrote:

Anyway, in cloud environment (Openshift, Kubernetes), I would recommend not to use Quarkus (or JavaEE) native schedulers. You'll get troubles with[...]

Bogor Bandung wrote:

The game is called Rogue, not (Moulin) Rouge :D

P Ba wrote:

@ritcher1 - Didn't work for me on my ZX spectrum either.

sandev wrote:

what is the main difference between deploy java ee war from eclipse to "JBoss" and deploy using wad jar



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