

Was-DB Connection

1. JDBC 설정

Oracle Database 19c (19.14.0.0) JDBC Driver & UCP Downloads - (Long Term Release)

Supports Oracle Database versions - 21c, 19c, 18c, and 12.2

Name	Download	JDK Supported	Description
Oracle JDBC driver	ojdbc10.jar	Implements JDBC 4.3 spec and certified with JDK11	Oracle JDBC driver except classes for NLS support in Oracle Object and Collection types. (4,491,032 bytes) - (SHA1: 325ab131be1803763a321514141fab775c731d4a)
Oracle JDBC Driver	ojdbc8.jar	Implements JDBC 4.2 spec and certified with JDK8 and JDK11	Oracle JDBC driver except classes for NLS support in Oracle Object and Collection types. (4,458,107 bytes) - (SHA1: 32478d11f8fd9c62740f1ab067d1f57425f95d6)
Universal Connection Pool (UCP)	ucp.jar	Certified with JDK8. Certified with JDK11 with some limitations	Universal Connection Pool (UCP) (1,690,072 bytes) - (SHA1: 10904c010078c11f19ebc2815f9b3b1661ed9b77)
Zipped JDBC driver (ojdbc10.jar) and Companion Jars	ojdbc10-full.tar.gz	Certified with JDK11	This archive contains ojdbc10.jar , ucp.jar , companion jars ¹ , diagnosability jars ² , JDBC, UCP, RSI Javadoc, their Readmes, and Bugs-fixed-in-1914.txt. Refer to README.txt in the zip for details. (36,148,601 bytes) - (SHA1: 254d4e481d464dedb1e40d78ba0519ddb836c354)
Zipped JDBC driver (ojdbc8.jar) and Companion Jars	ojdbc8-full.tar.gz	Certified with JDK8 and JDK11	This archive contains ojdbc8.jar , ucp.jar , companion jars ¹ , diagnosability jars ² , JDBC, UCP, RSI Javadoc, their Readmes, and Bugs-fixed-in-1914.txt. Refer to README.txt in the zip for details. (35,985,428 bytes) - (SHA1: d765aa1b760ba7875c3ff8a9e33f477de939e73f)

- Oracle Database 19c 버전에 맞는 JDBC Driver 다운로드
- /usr/lib/jvm/java-8-openjdk-amd64/jre/lib/ext,
/var/lib/tomcat9/webapps/sample/WEB-INF/lib 경로에 ojdbc8.jar 파일 넣기

```
jyp@ubuntu:~$ ls /usr/lib/jvm/java-8-openjdk-amd64/jre/lib/ext
cldrdata.jar icedtea-sound.jar java-atk-wrapper.jar localedata.jar ojdbc8.jar
dnsns.jar jaccess.jar libatk-wrapper.so nashorn.jar sunec.jar
```

```
jyp@ubuntu:~$ sudo ls /var/lib/tomcat9/webapps/sample/WEB-INF/lib
[sudo] password for jyp:
ojdbc8.jar
```

2. jsp 파일 생성

- /var/lib/tomcat9/webapps/sample 경로에 index.html 파일을 index.jsp파일로 교체

```
jyp@ubuntu:~$ sudo ls /var/lib/tomcat9/webapps/sample
hello.jsp  images  index.jsp  META-INF  WEB-INF
```

- index.jsp 파일

```
<%@ page language="java" import="java.sql.*" %>
<%
String DB_URL = "jdbc:oracle:thin:@192.168.119.122:1521:dink08";
String DB_USER = "scott";
String DB_PASSWORD = "tiger";
Connection con = null;
Statement stmt = null;
ResultSet rs = null;
String sql=null;
String conn="test";

try
{
    Class.forName("oracle.jdbc.driver.OracleDriver");
    con = DriverManager.getConnection(DB_URL, DB_USER, DB_PASSWORD);
    if( con != null ){
        conn = "success";
    }

} catch(SQLException e){out.println(e);}
%>
<p><%=conn %></p>
```

→ 해당 부분만 사용자의 환경에 따라 변경

→ scott/tiger 계정으로 Database와 연결된다면 success 출력

3. Oracle19c 기동

- SQL> startup

```
SQL> SELECT STATUS FROM v$instance;

STATUS
-----
OPEN
```

4. sample 파일을 열어서 연결 확인

- 연결 성공)



- 연결 실패)

