

# JSP & Servlet

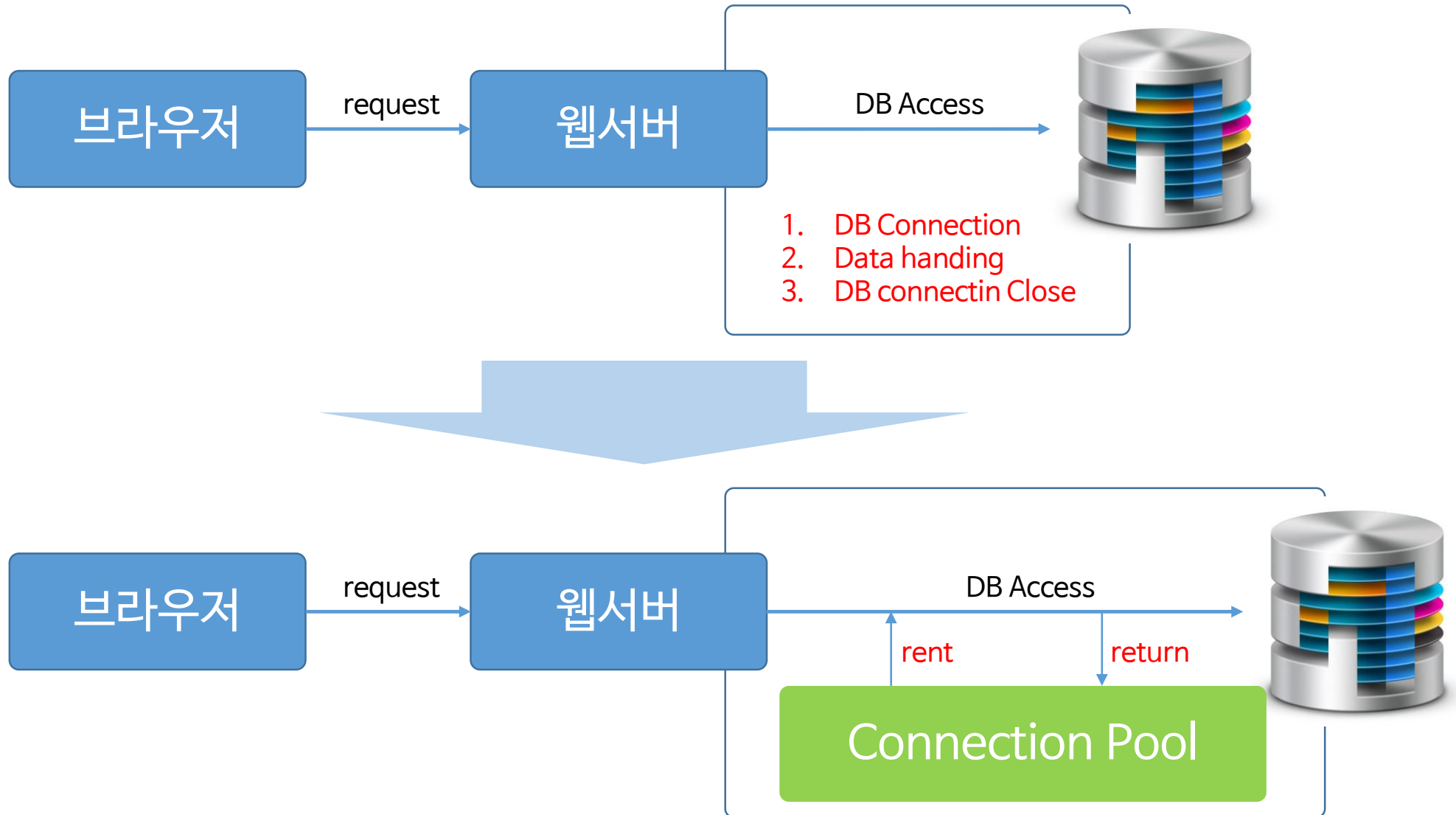
## 20강\_Connection Pool

데이터 베이스와 통신하는 자원을 효율적으로 관리하기 위한 방법에 대해서 학습합니다.

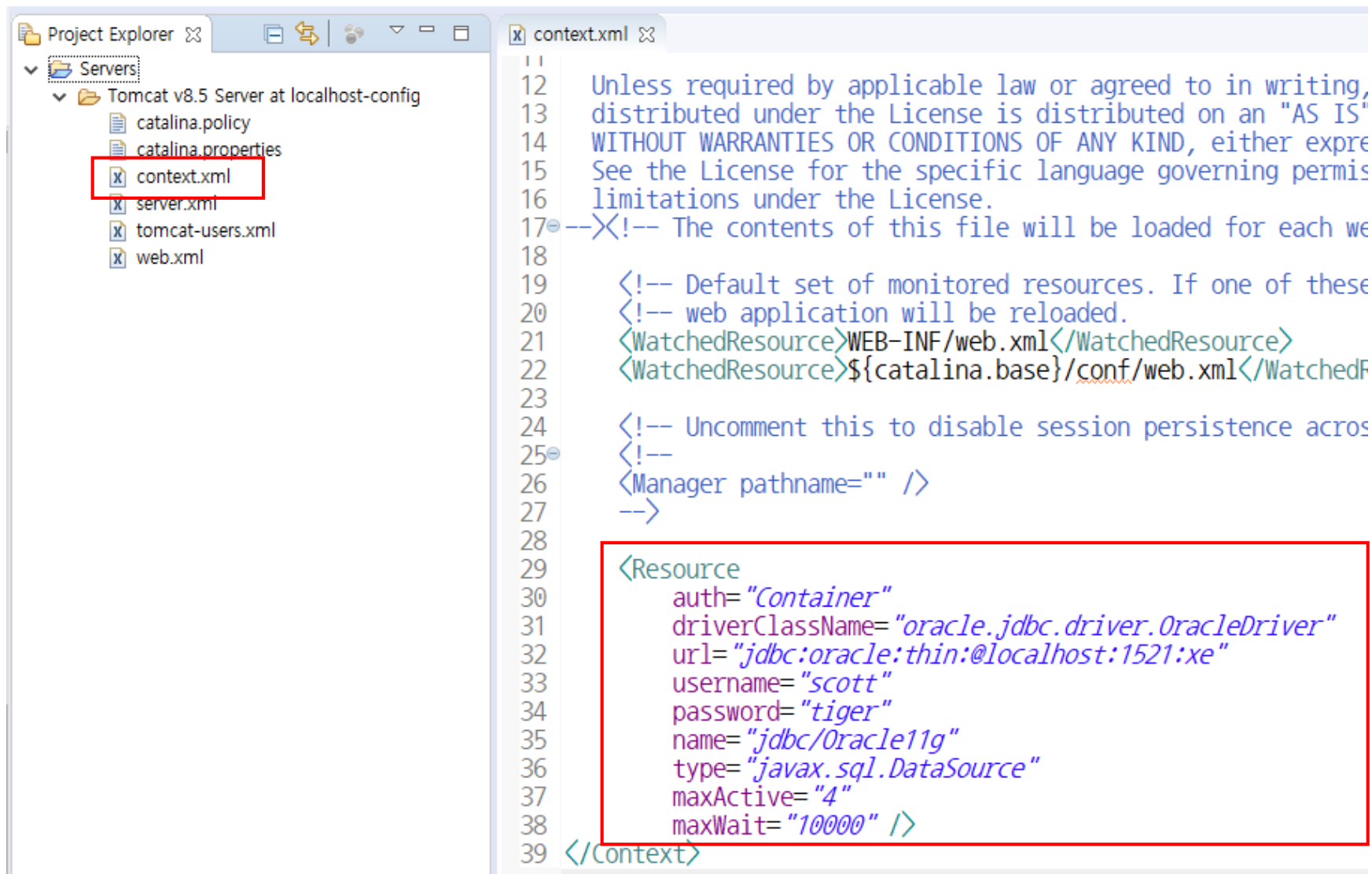
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- 20-1 커넥션 풀 이란?
- 20-2 커넥션 풀 설정
- 20-3 커넥션 풀 구현

## 20-1 : 커넥션 풀이란?



## 20-2 : 커넥션 풀 설정



The screenshot shows the configuration of a Tomcat v8.5 server. The Project Explorer on the left shows the 'context.xml' file selected under the 'Servers' folder. The main editor displays the content of 'context.xml', which includes a <Resource> element for an Oracle database connection pool. The <Resource> element is highlighted with a red box.

```
11
12 Unless required by applicable law or agreed to in writing,
13 distributed under the License is distributed on an "AS IS"
14 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either expre
15 See the License for the specific language governing permis
16 limitations under the License.
17 --X!-- The contents of this file will be loaded for each we
18
19 <!-- Default set of monitored resources. If one of these
20 <!-- web application will be reloaded.
21 <WatchedResource>WEB-INF/web.xml</WatchedResource>
22 <WatchedResource>${catalina.base}/conf/web.xml</WatchedF
23
24 <!-- Uncomment this to disable session persistence across
25 <!--
26 <Manager pathname="" />
27 -->
28
29 <Resource
30     auth="Container"
31     driverClassName="oracle.jdbc.driver.OracleDriver"
32     url="jdbc:oracle:thin:@localhost:1521:xe"
33     username="scott"
34     password="tiger"
35     name="jdbc/Oracle11g"
36     type="javax.sql.DataSource"
37     maxActive="4"
38     maxWait="10000" />
39 </Context>
```

## 20-3 : 커넥션 풀 구현

```
DataSource dataSource;
```

```
/*  
String driver = "oracle.jdbc.driver.OracleDriver";  
String url = "jdbc:oracle:thin:@localhost:1521:xe";  
String id = "scott";  
String pw = "tiger";  
*/
```

```
public BookDAO() {  
    try {  
        //Class.forName(driver);  
        Context context = new InitialContext();  
        dataSource = (DataSource)context.lookup("java:comp/env/jdbc/Oracle11g");  
    } catch (Exception e) {  
        e.printStackTrace();  
    }  
}
```

```
public ArrayList<BookDTO> select() {
```

```
    ArrayList<BookDTO> list = new ArrayList<BookDTO>();
```

```
    Connection con = null;
```

```
    PreparedStatement pstmt = null;
```

```
    ResultSet res = null;
```

```
    try {
```

```
        //con = DriverManager.getConnection(url, id, pw);
```

```
        con = dataSource.getConnection();
```