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Deploying Enterprise Java Web Application to IBM WebSphere Community Edition

Chapter 4 - Deploying Enterprise Web Application to IBM WebSphere Community Edition

DB Visual ARCHITECT (DB-VA) provides different kinds of templates for users to generate Java code. The template will optimize the configuration of generated Java Code and select jar files for different application servers or standalone Java application. In this chapter, we will deploy enterprise Java web application to WebSphere Community Edition. Since WebSphere Application Server Community Edition is a new application server, DB-VA currently does not support its datasource connection.

In this chapter:

- Introduction
- Preparing to Deploy to WebSphere Community Edition
- Deploying Web Application to WebSphere Community Edition

Introduction

This document is based on the Programmer's Guide for Java - Chapter 3 Developing Java Enterprise Web Application example to demonstrate the deployment steps on the WebSphere Community Edition. Since the Example of Programmer's Guide for Java - Chapter 3 is deployed on the JBoss Server, we need to modify some configuration before deploying on the WebSphere Community Edition.

Preparing to Deploy to WebSphere Community Edition

Suppose you have downloaded the example of the Programmer's Guide for Java - Chapter 3 Developing Java Enterprise Web Application. You need to change the template of generate code before deploying on the WebSphere Community Edition.

1. From the menu bar, select **Tools > Object Relational Mapping (ORM) > Generate Code ...** to open the Database Code Generation dialog box.

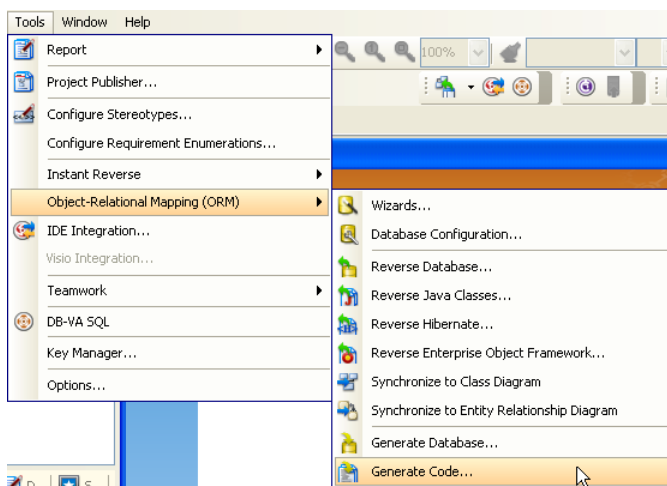


Figure 4.1 - To generate code

2. Change the Deploy To option from **JBoss Application Server** to **WebSphere Application Server Community Edition 1.0**

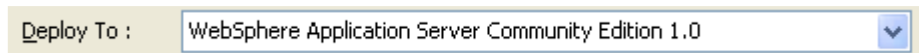


Figure 4.2 - Deployed To options

DB-VA helps you to select the corresponding Optional Jar files and set datasource options.

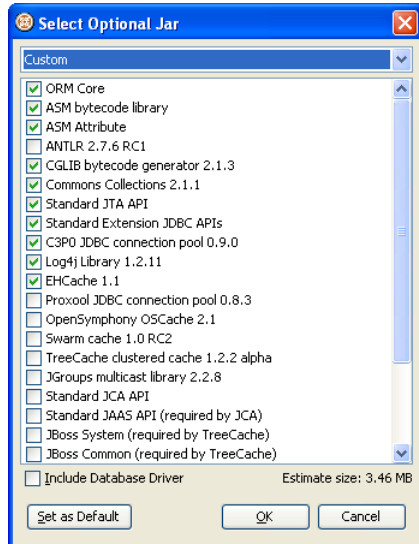


Figure 4.3 - Select Optional Jar dialog

3. Click **OK** to regenerate code.

Copy the `schoolsystem.war\src\ormmapping` folder to `schoolsystem.war\classes` folder to make sure the configuration files are also updated.

Deploying Web Application to WebSphere Community Edition

Now the `orm.jar` is updated and generated in the JBoss Server deploy folder.

1. Copy the `antlr.jar` from the **DB-VA installation Directory\ormlib** folder to the **WEBSPPHERE_HOME\lib\endorsed** folder.

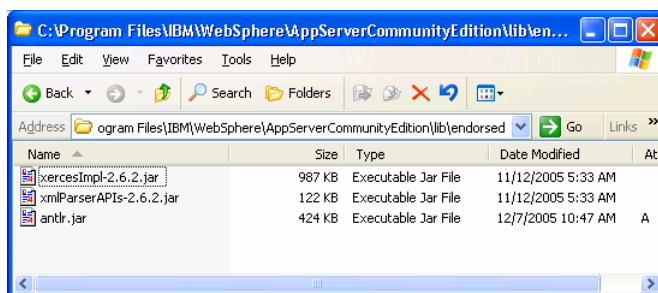


Figure 4.4 - The `antlr.jar` copied to WebSphere home directory

2. Open the command prompt to the `schoolsystem.war` folder in the JBoss deploy folder.

- Execute jar to create a war file in command prompt.

The command to create a war file:

```
jar - cvf schoolsystem.war .
```

The schoolsystem.war file is created inside the schoolsystem.war folder

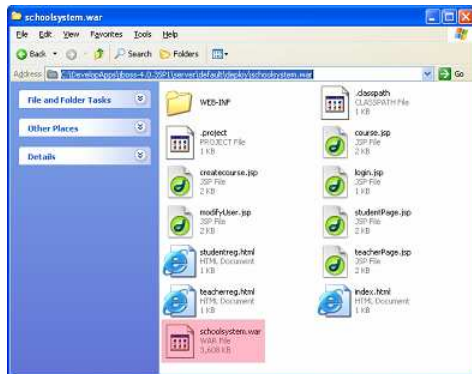


Figure 4.5 - The schoolsystem.war

- Start the WebSphere Application Server from system menu **Start > All Programs > IBM WebSphere > Application Server Community Edition > Start the server**

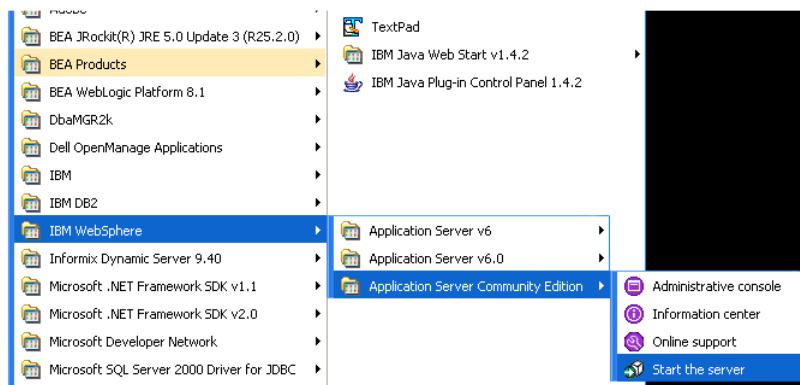


Figure 4.6 - Start WebSphere Application Server

- Go to Administration Console (<http://localhost:8080/Console>) and enter user name and password

The default user name and password:

User name: System

password: Manager

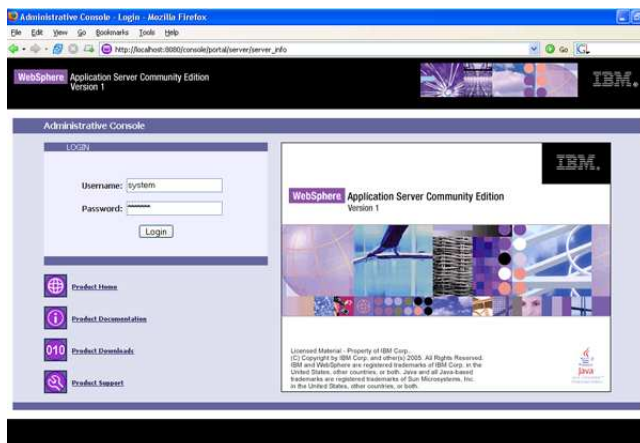


Figure 4.7 - WebSphere Application Server Login page

6. Select **Applications > All Configurations** on the left hand side menu.

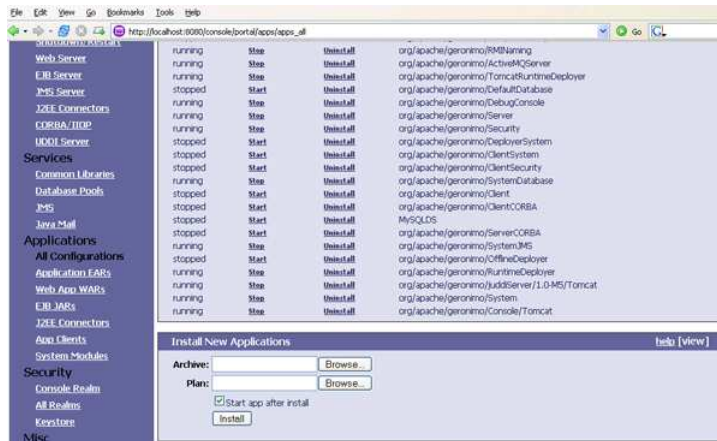


Figure 4.8 - To show all configuration

7. Select the SchoolProject war on the Archive file in **Install New Applications** block and click **Install**.

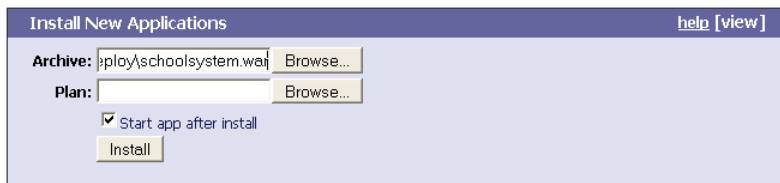


Figure 4.9 - Install new application

8. Install succeeded message is shown

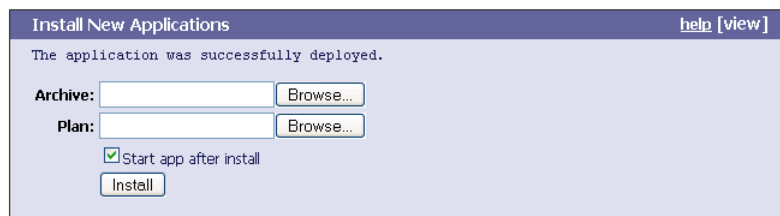


Figure 4.10 - The install successful message

9. Go to <http://localhost:8080/schoolsystem/index.html>. You can access the record from database by JDBC connection

