

1 Background knowledge:

1.1 War package

War package is generally a collection of all source code under a website Project during Web development, which contains the foreground HTML/CSS/JS code as well as Java code.

After a developer debugs and passes all the code on their own development machine, the developer's source code needs to be packaged into a War for release in order to give it to testers for testing and future product releases.

The War package can be placed in the WebApps or Word directory under Tomcat, and it can be automatically unzipped as the Tomcat server is started.

1.2 Tomcat server

Tomcat server is a free open source Web application server, belongs to the lightweight application server, in small and medium-sized systems and concurrent access users are not a lot of occasions are commonly used, is the development and debugging JSP program is the first choice, the latest Servlet and JSP specifications can always be reflected in Tomcat.

2 Configure the Java runtime environment

2.1 Download and install the JDK

Download from the website to download the latest JDK:<http://java.sun.com/javase/downloads/index.jsp>, JDK version: 1.8, after the installation, choose to the JDK installation directory. The JRE is included in the JDK, so there is no need to install another JRE.

2.2 Set the JDK environment variables

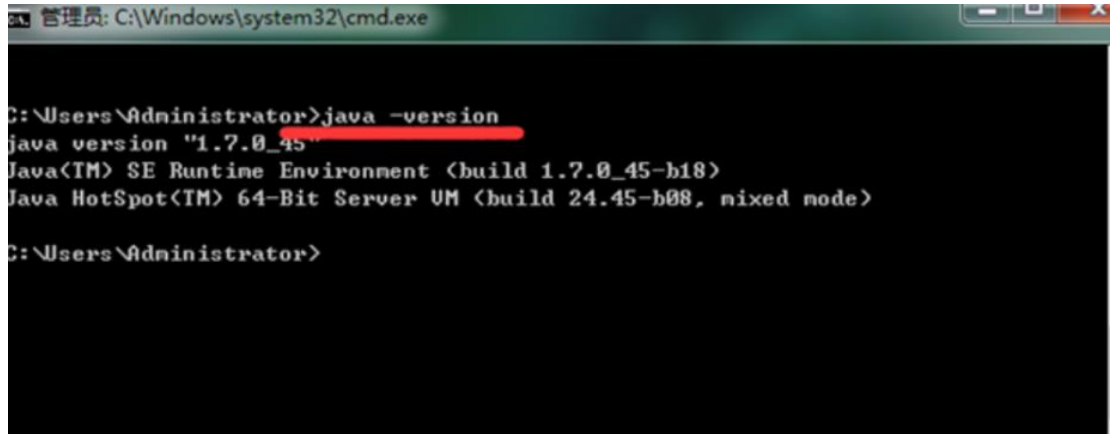
Right click "Computer", click "Properties", click "Advanced System Settings" on the left side of the popup window, and select "Advanced ->Environment variables.

- New variable name: **JAVA_HOME**; Variable value: the directory where you installed the JDK is **C:\Program Files\Java\ JDK1.8._45**.
- New variable name: **CLASSPATH** Variable's value: **.;%JAVA_HOME%\lib;%JAVA_HOME%\lib\dt.jar;%JAVA_HOME%\lib\tools.jar;%TOMCAT_HOME%\BIN**

- Edit the path of the environment variable: Variable name: Path; Variable value: %JAVA_HOME%\bin;%JAVA_HOME%\jre\bin;

2.3 Verify that the JDK environment variables were set successfully

Enter Java - Version :



```
管理员: C:\Windows\system32\cmd.exe
C:\Users\Administrator>java -version
java version "1.7.0_45"
Java(TM) SE Runtime Environment (build 1.7.0_45-b18)
Java HotSpot(TM) 64-Bit Server VM (build 24.45-b08, mixed mode)
C:\Users\Administrator>
```

3. Deploy the Tomcat server

3.1 Download Tomcat to the local hard disk

Download the Tomcat server from the official website. All files downloaded from the official website are green and installation-free.

Download address is: <http://tomcat.apache.org/download-90.cgi>.

Unzip after downloading, as C:\ Apache-Tomcat-9.0.26.

3.2 Set the Tomcat environment variables

Still open the computer's environment variables dialog box.

Create a new environment variable:

Variable name: TOMCAT_HOME

Variable value: your TOMCAT unzipped directory, such as E:\ Apache-Tomcat-9.0.26.

4. Deploy the War package for the Web project to the Tomcat server

Copy the layedMap.war package to Tomcat's Webapp. Is configured so that when the access path is:

<http://localhost:8080/layedmap/>.



Objective 1

Contribute to and enhance a strength based, culturally engaged, high support model of education.



Objective 2

Co-develop and establish further study pathways for Munarra Academy graduates and other prospective students, including to UoM higher education courses.



Objective 3

Develop integrated employment pathways and career development for Munarra Academy graduates.