

# PUSH-DEMO

## Deployment Guide

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Version:V1.0

## Revision History

Date	Version	Description	Author	Approved by
2015-09-16	1.0	Initial draft	Liao Zuzheng	

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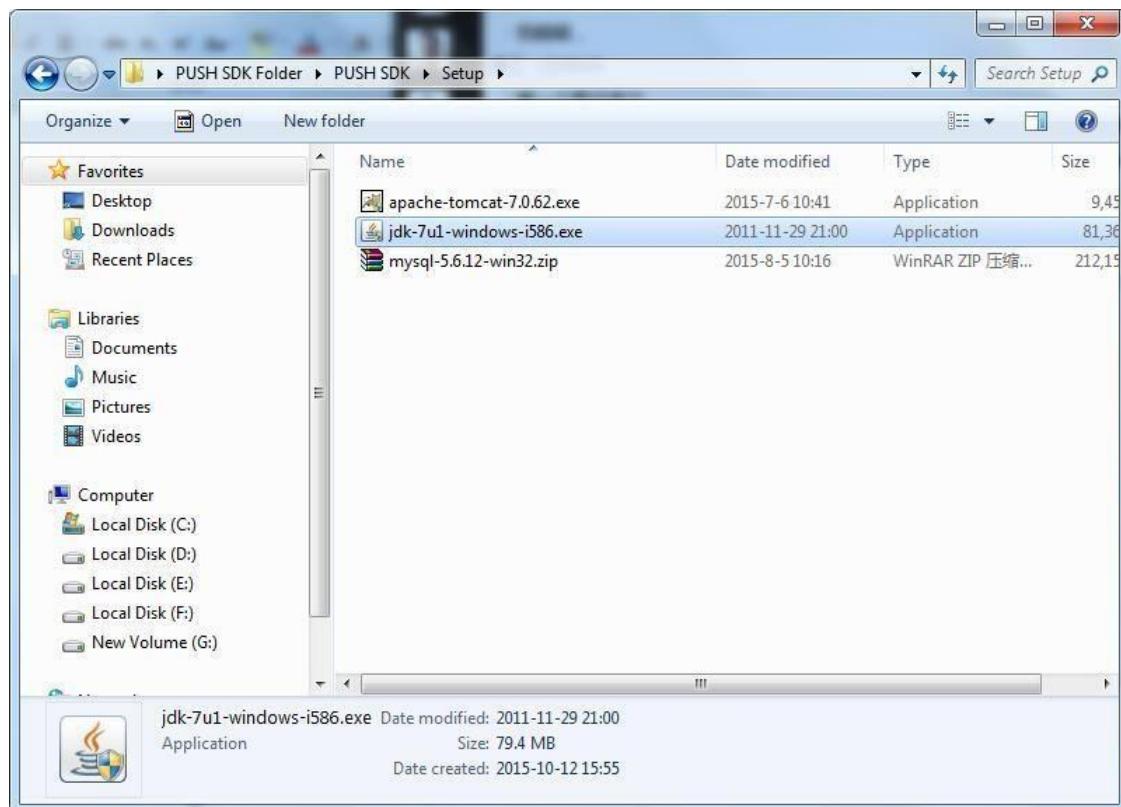
# 1 Test Environment Establishment

The required test environment is established on Window7 32-bit OS.

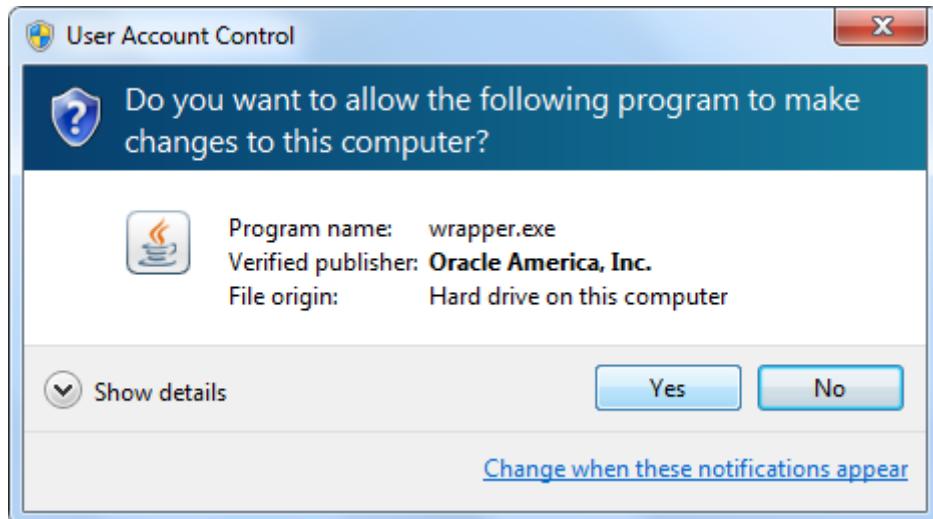
JDK version: jdk-7u1-windows-i586.exe. For details on the installation procedure of other versions, refer to the guide on the official website of Java.

## 1.1 JDK Installation

1. Double-click the installation package.



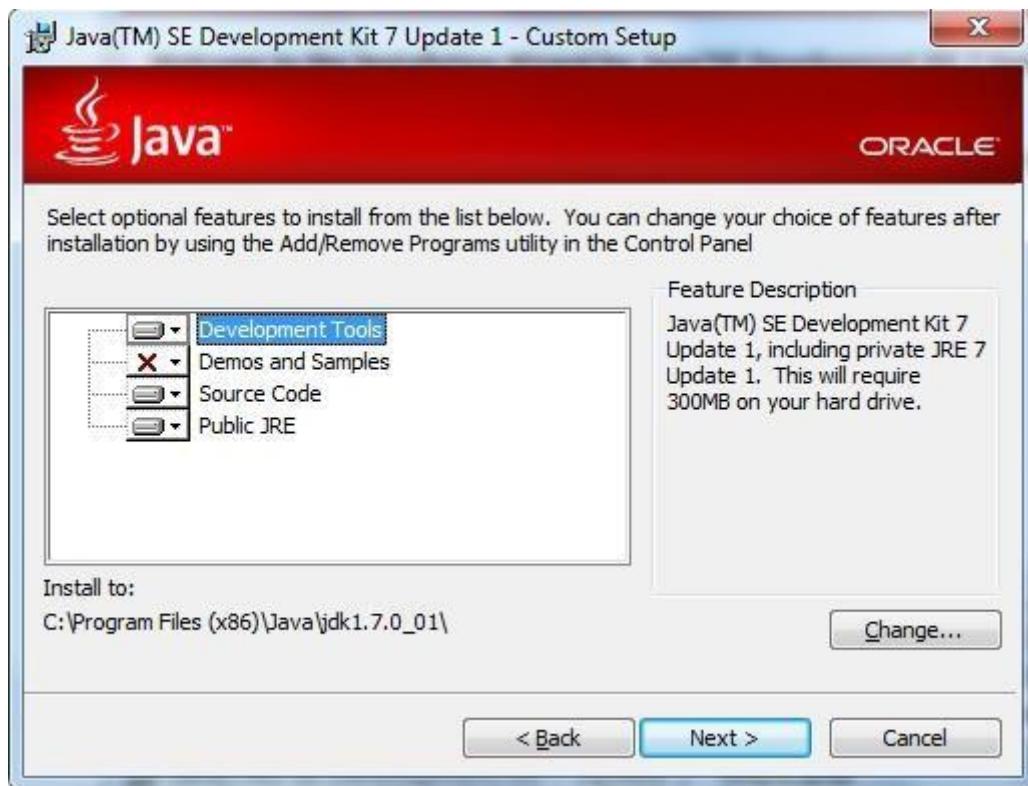
- 2.



3. Click **Next**.



4. Select a path to install the package. Here, the default installation path is **C:\Program Files\Java\jdk1.7.0\_01\**. Click **Next**.



5. The installation progress will be shown as below:



6. Install jre after the installation of JDK is complete. Here, the default installation path is **C:\Program Files\Java\re7\**. Click **Next**.

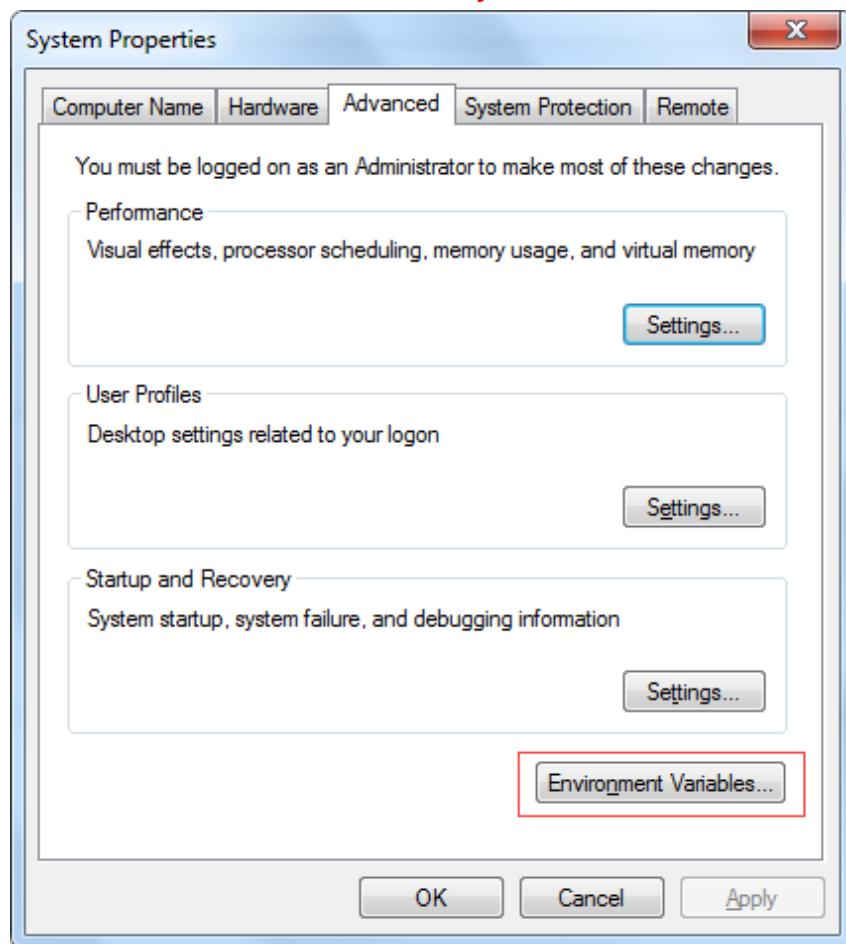


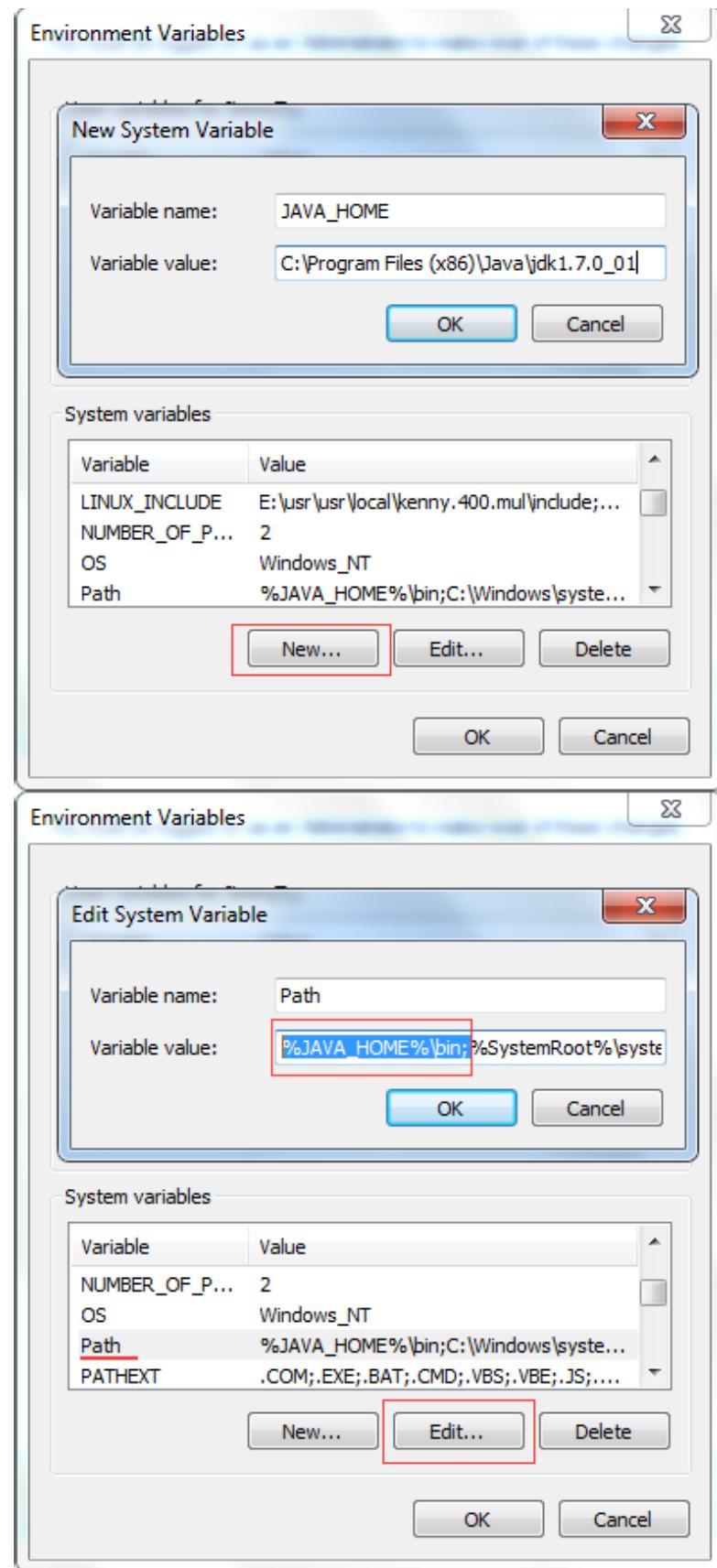
7. The installation progress will be shown as below:



8. JDK installation is complete.

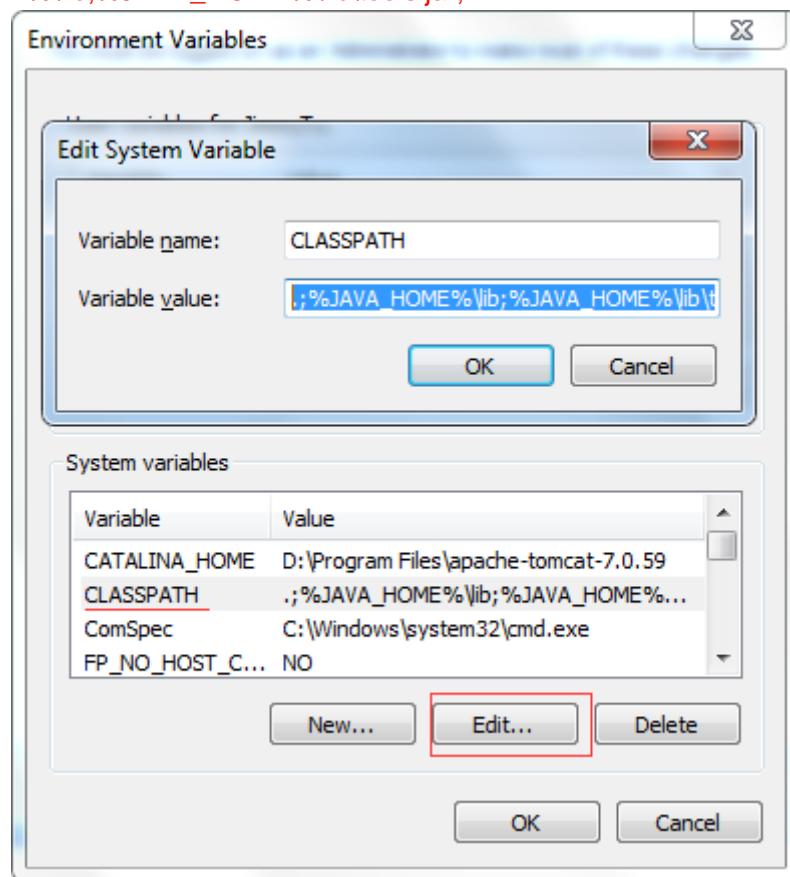


**Configure environment variables in the Java system.**



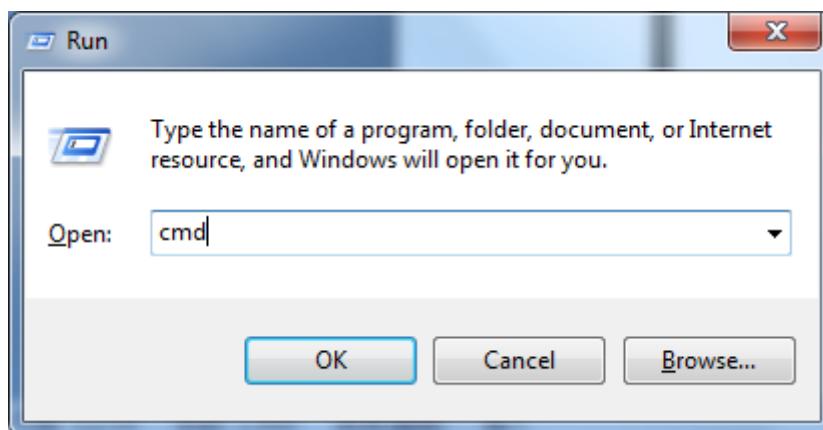
Add the Java library to the CLASSPATH variable; the value of this variable is as follows:

%JAVA\_HOME%\lib;%JAVA\_HOME%\lib\tools.jar;

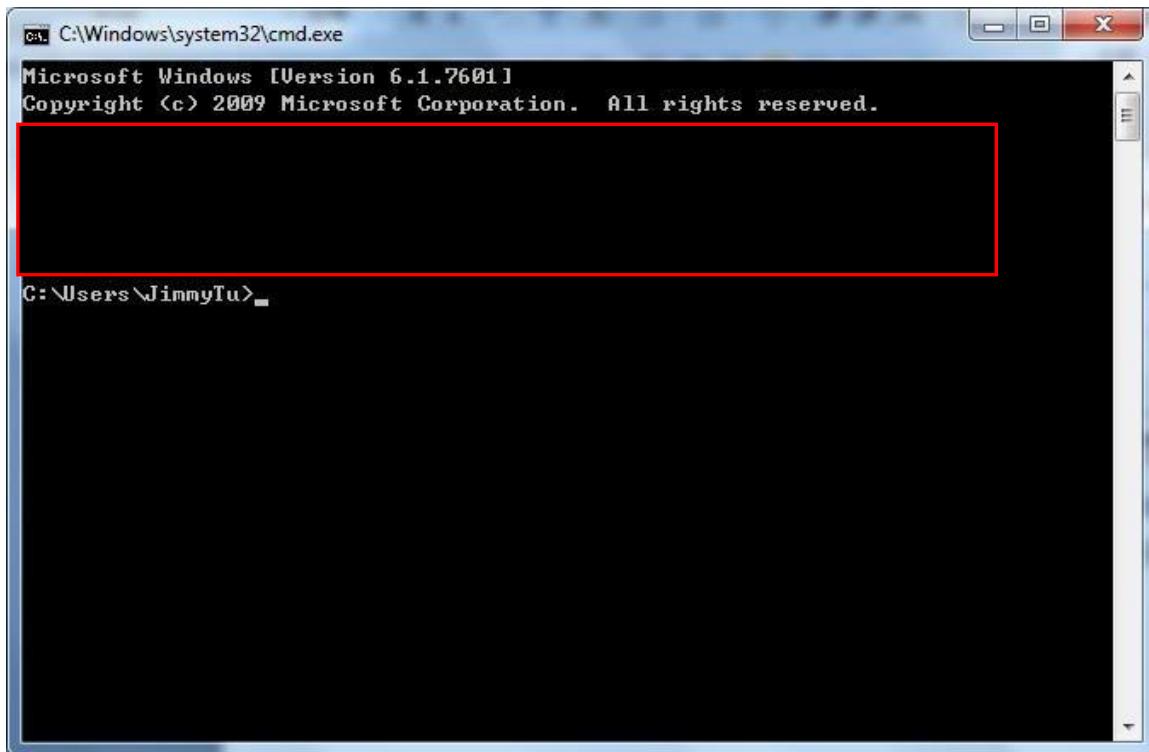


**After the configuration, restart the PC and check the configuration.**

1. Enter **cmd** in the **Run** window of the **Start** menu and press **Enter** to access the command line interface.



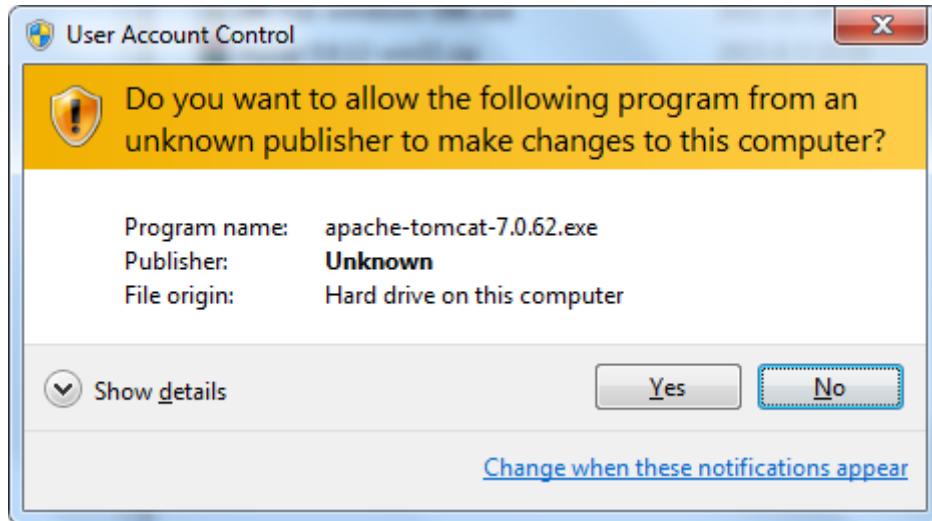
2. Enter the command **java -version**. The information framed in the following figure is shown, indicating successful JDK installation.



## 1.2 Tomcat Installation

Tomcat version: apache-tomcat-7.0.62. For details on the installation procedure of other versions, refer to the installation guide of specific version.

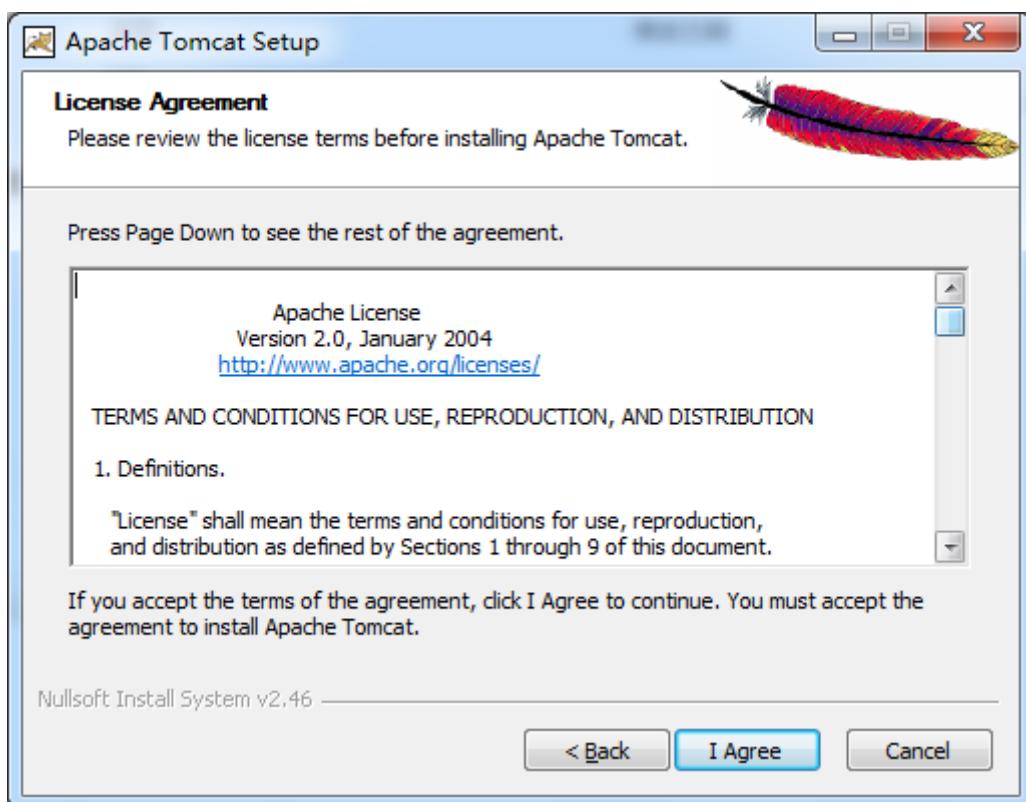
1. Double-click the installation package. A permission control dialog box appears. Click **Yes**.



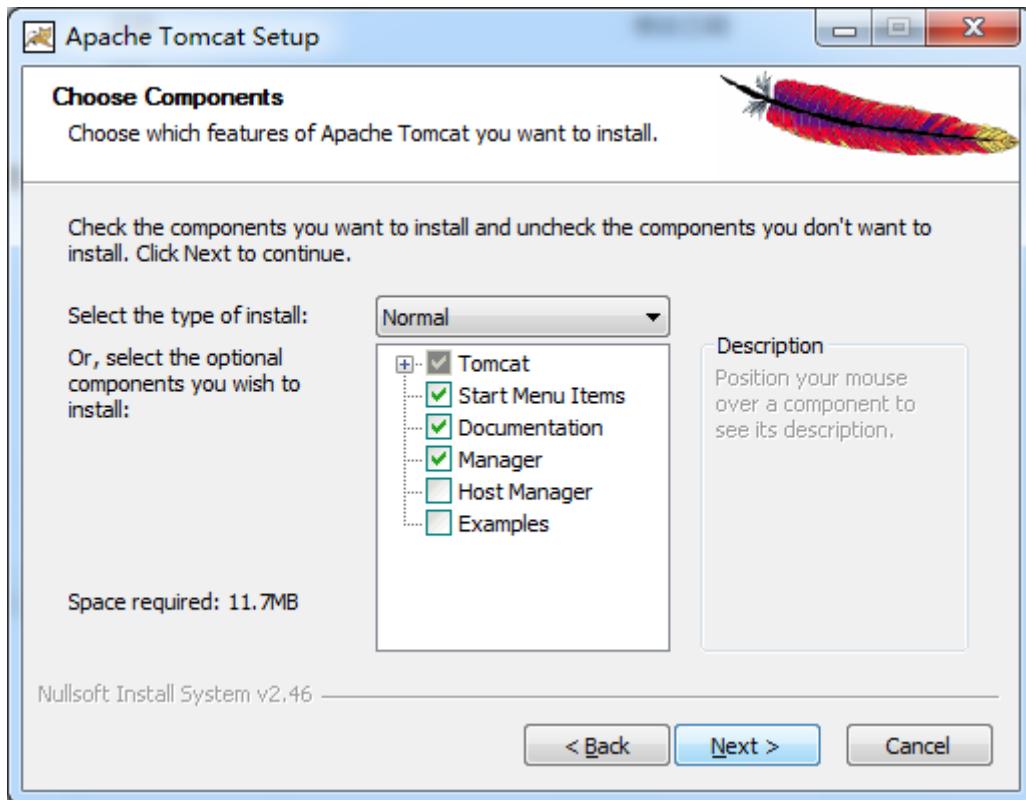
2. Click **Next**.



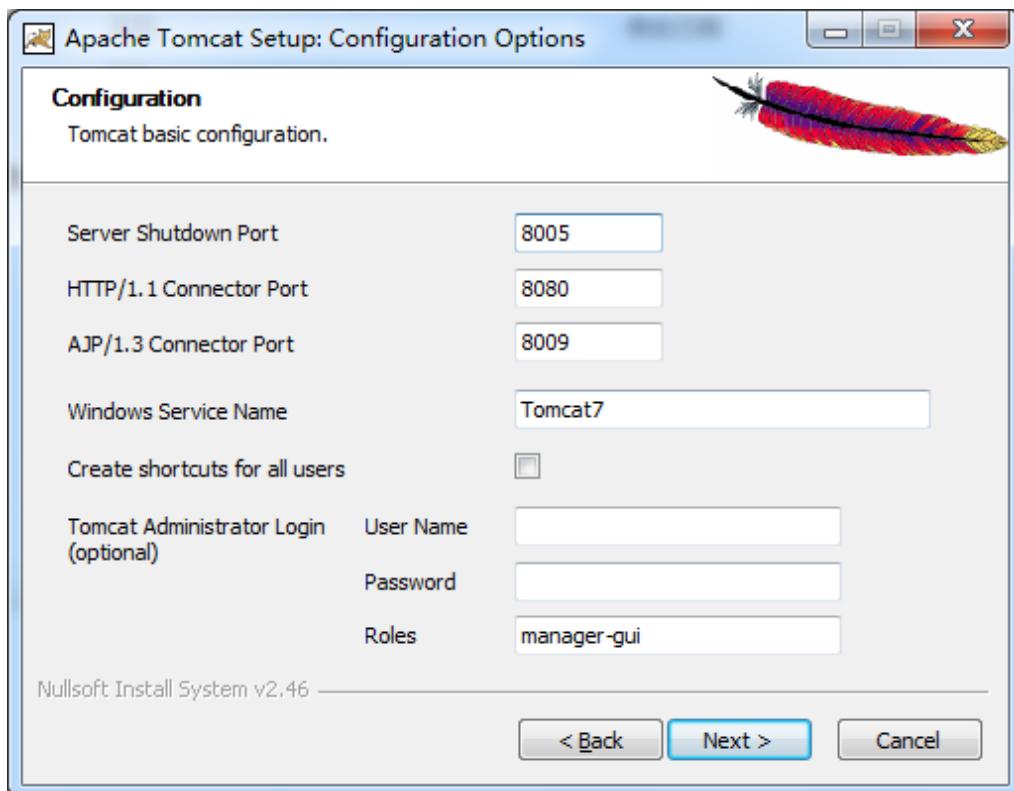
3. In the license agreement window, click **I Agree**.



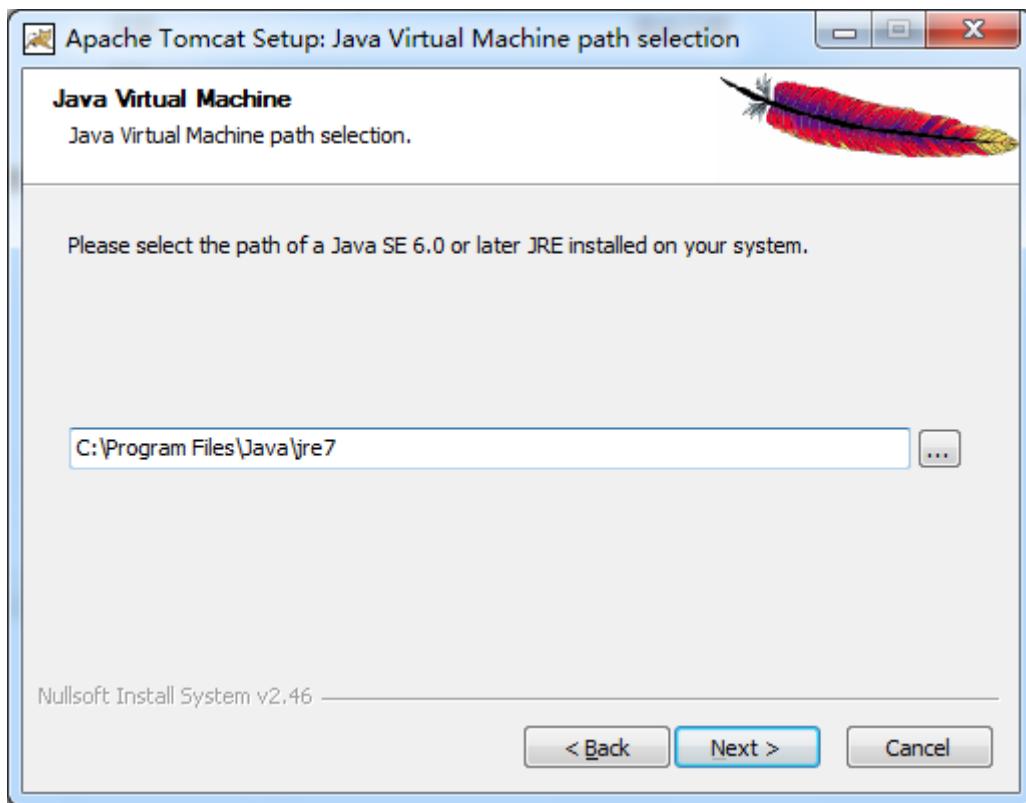
4. Select required components. Here, the default configuration is used. Click **Next**.



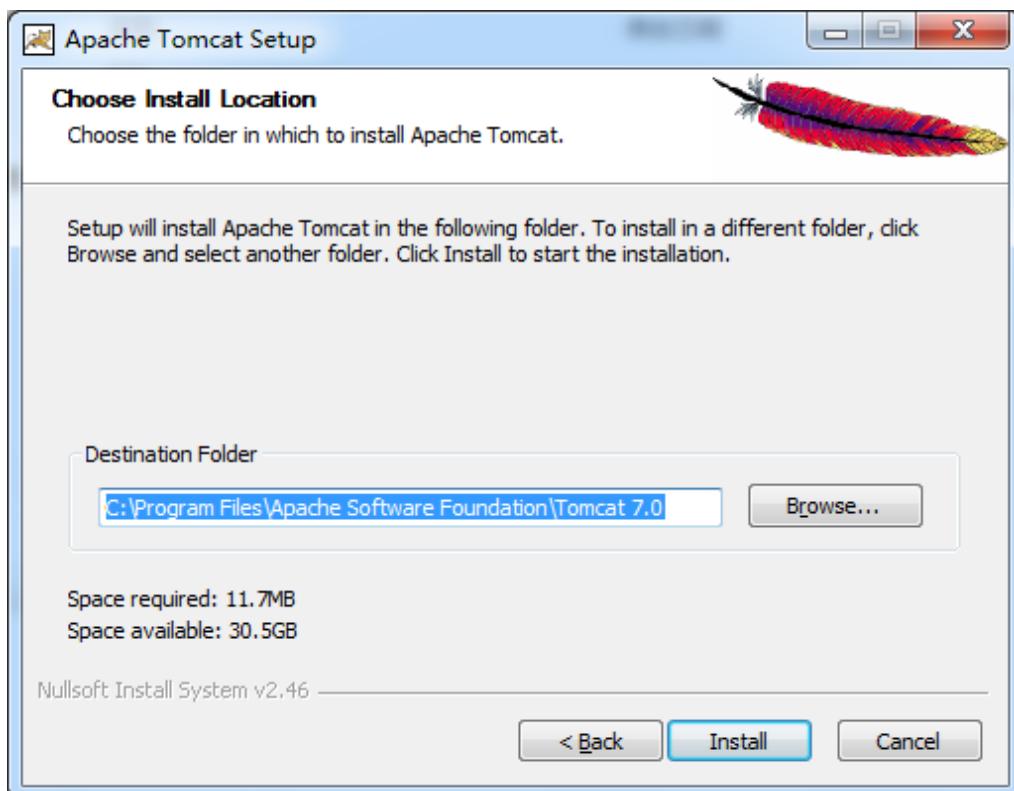
5. Configure a port and server name. Here, the default configuration is used: HTTP port is **8080**. Click **Next**.

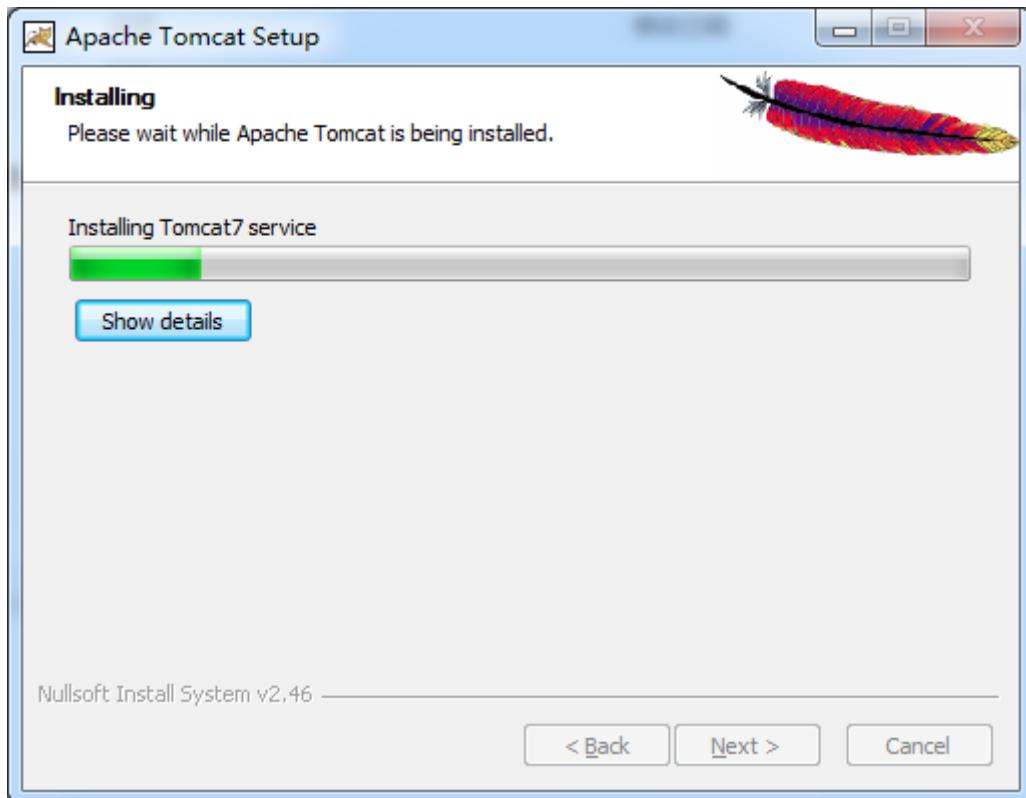


6. Select JRE virtual machine environment. Here, the default path is used. Click **Next**.  
**Note: Tomcat7 must be supported by later versions of JRE6.**

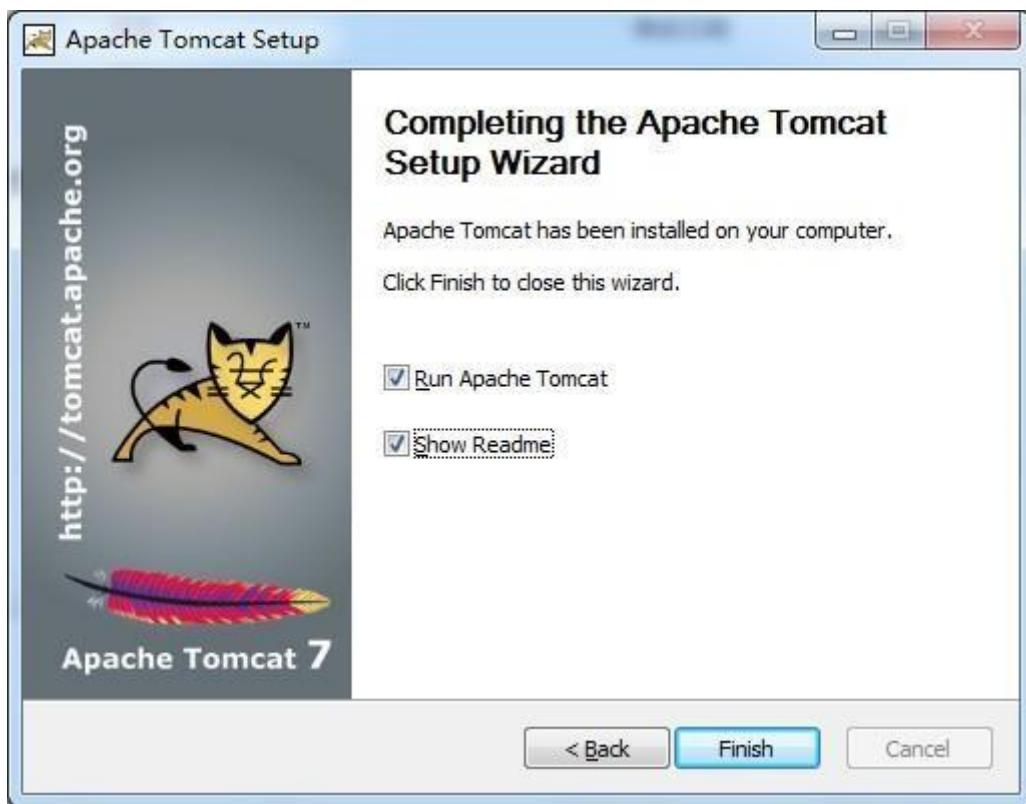


7. Select a path. Here, the default installation path is used. Click **Install**.





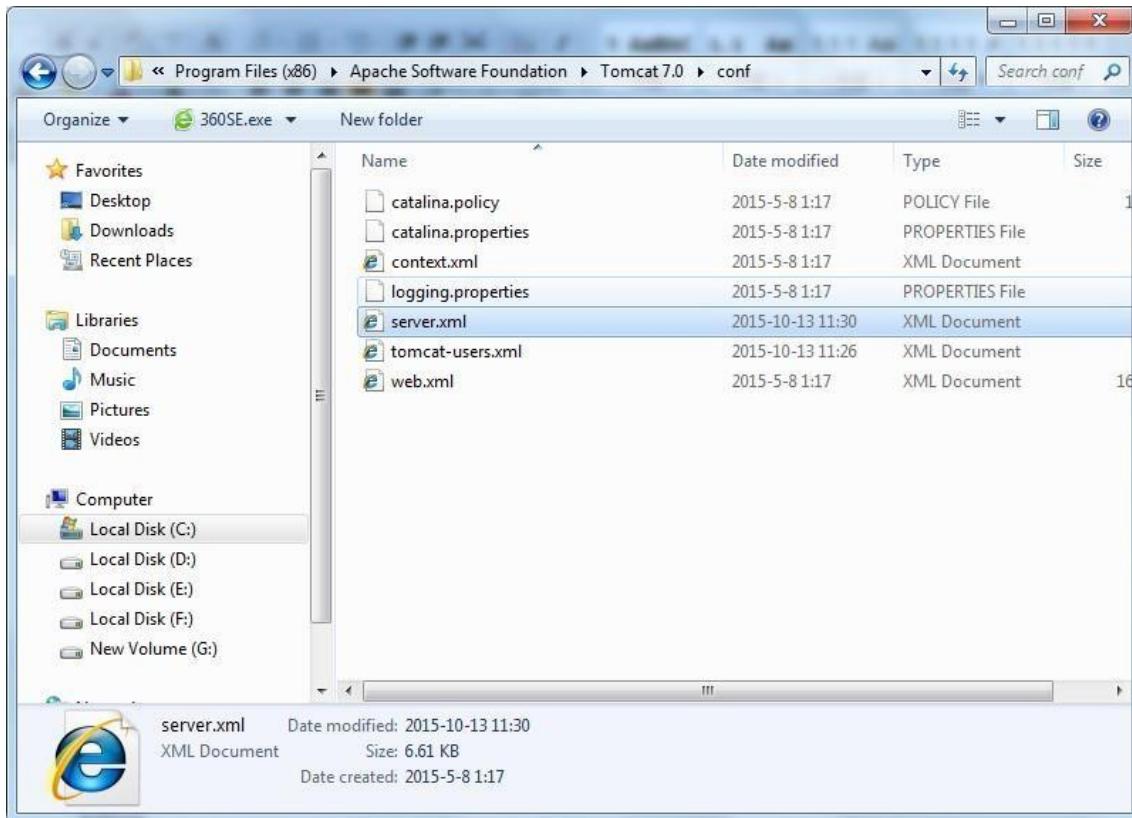
8. After the installation, deselect the combo boxes and click **Finish**.



9. Edit the Tomcat configuration file to add a page request code. If the file cannot be modified due to Windows permission, copy the file to another directory for

modification and then copy the modified file back to the original file to override the old file.

- ✓ Access the **conf** sub-directory of the Tomcat installation directory.



- ✓ Add the option **URIEncoding="UTF-8"** in **Connector**, as shown below:

```

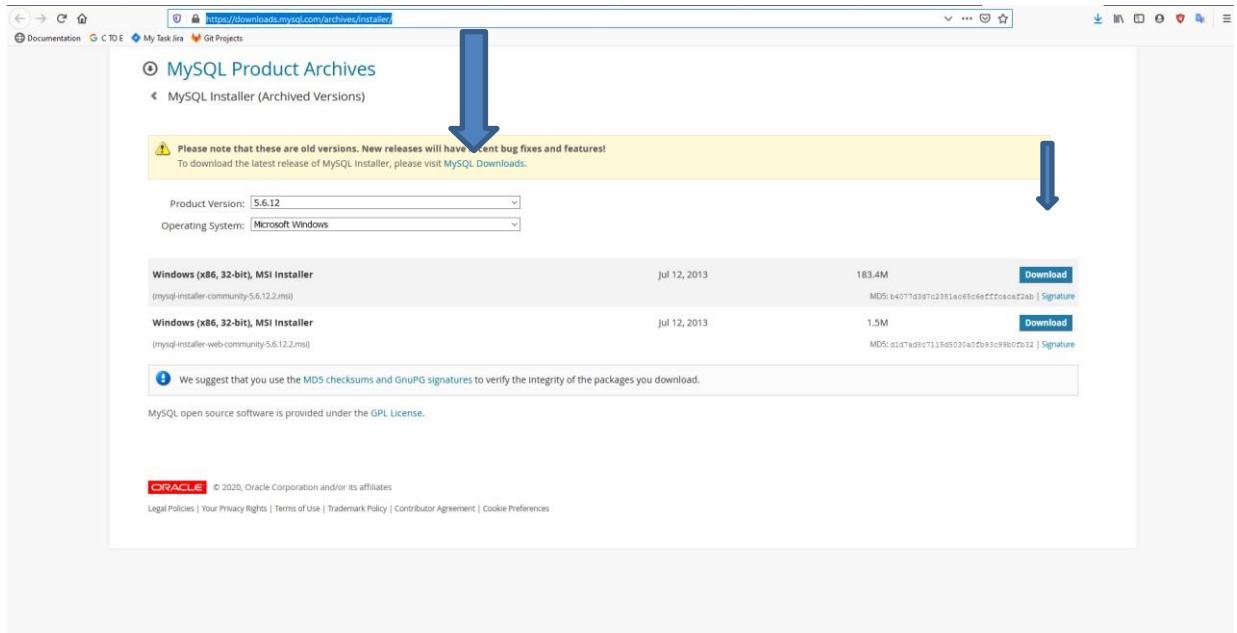
60
61
62    <!-- A "Connector" represents an endpoint by which requests are received
63        and responses are returned. Documentation at :
64        Java HTTP Connector: /docs/config/http.html (blocking & non-blocking)
65        Java AJP Connector: /docs/config/ajp.html
66        APR (HTTP/AJP) Connector: /docs/apr.html
67        Define a non-SSL HTTP/1.1 Connector on port 8080
68    -->
69    <Connector URIEncoding="UTF-8" port="8080" protocol="HTTP/1.1"
70        connectionTimeout="20000"
71        redirectPort="8443" />
72    <!-- A "Connector" using the shared thread pool-->
73    <!--
74    <Connector executor="tomcatThreadPool"
75        port="8080" protocol="HTTP/1.1"
76        connectionTimeout="20000"
77        redirectPort="8443" />
78    -->

```

## 1.3 MySQL Installation

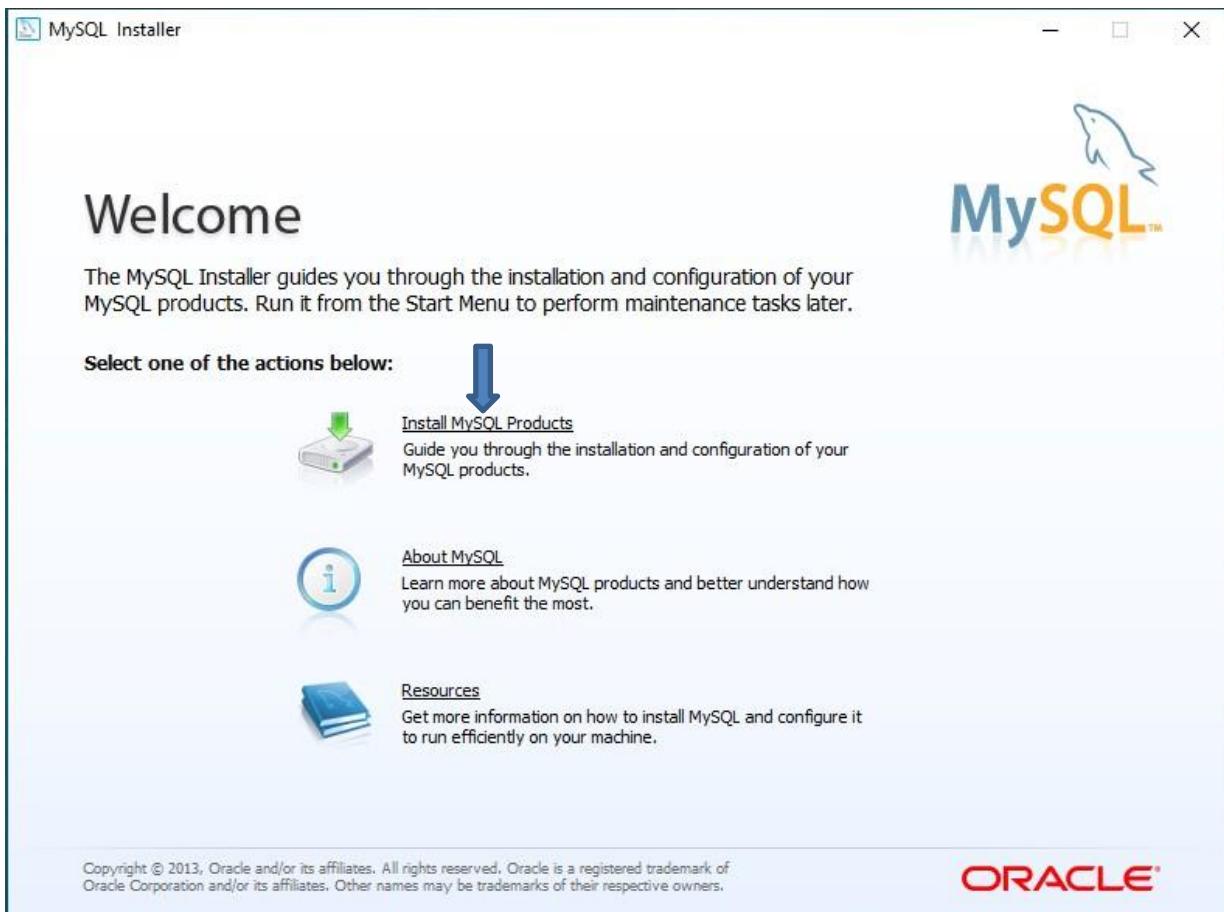
MySQL version: mysql-5.6.12-win32 (portable version).

1. Click on the given .msi file or download it from the website <https://downloads.mysql.com/archives/installer/>.

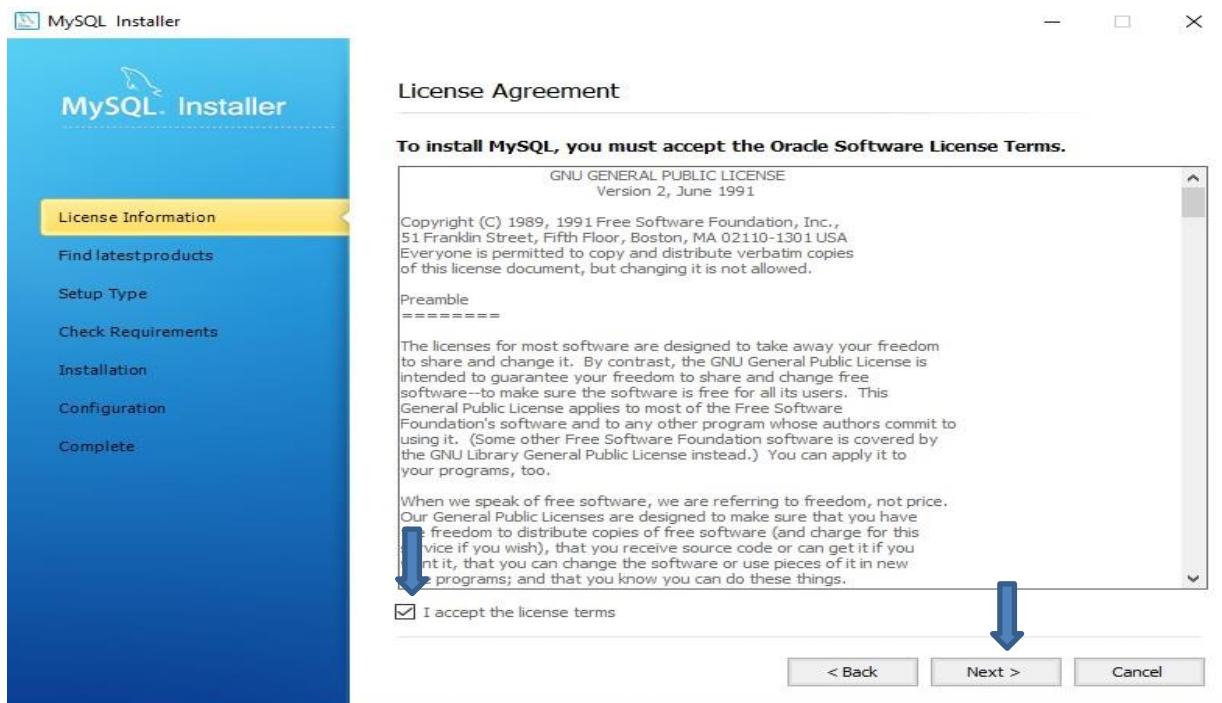


2. Next follow the install instruction procedure.

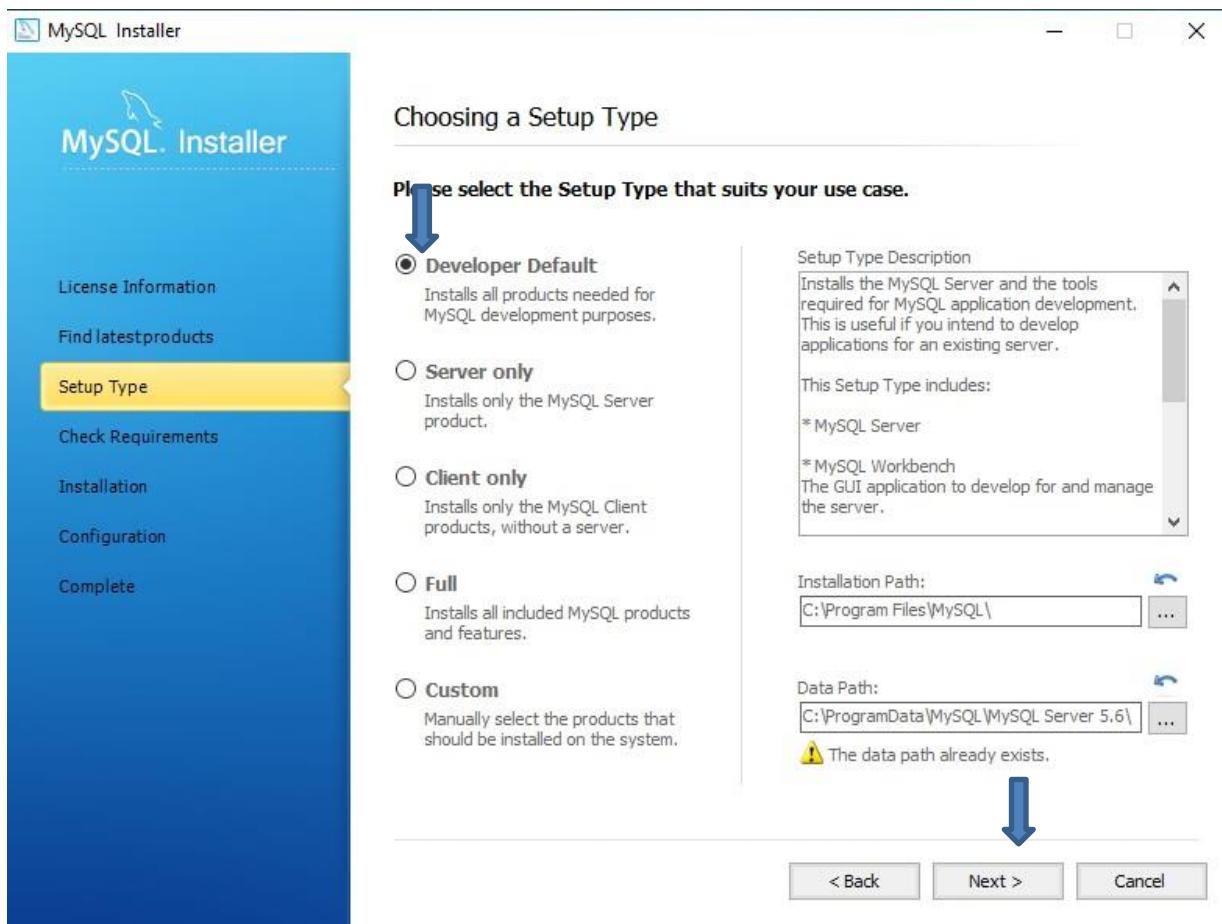
3. Click on install mysql products.



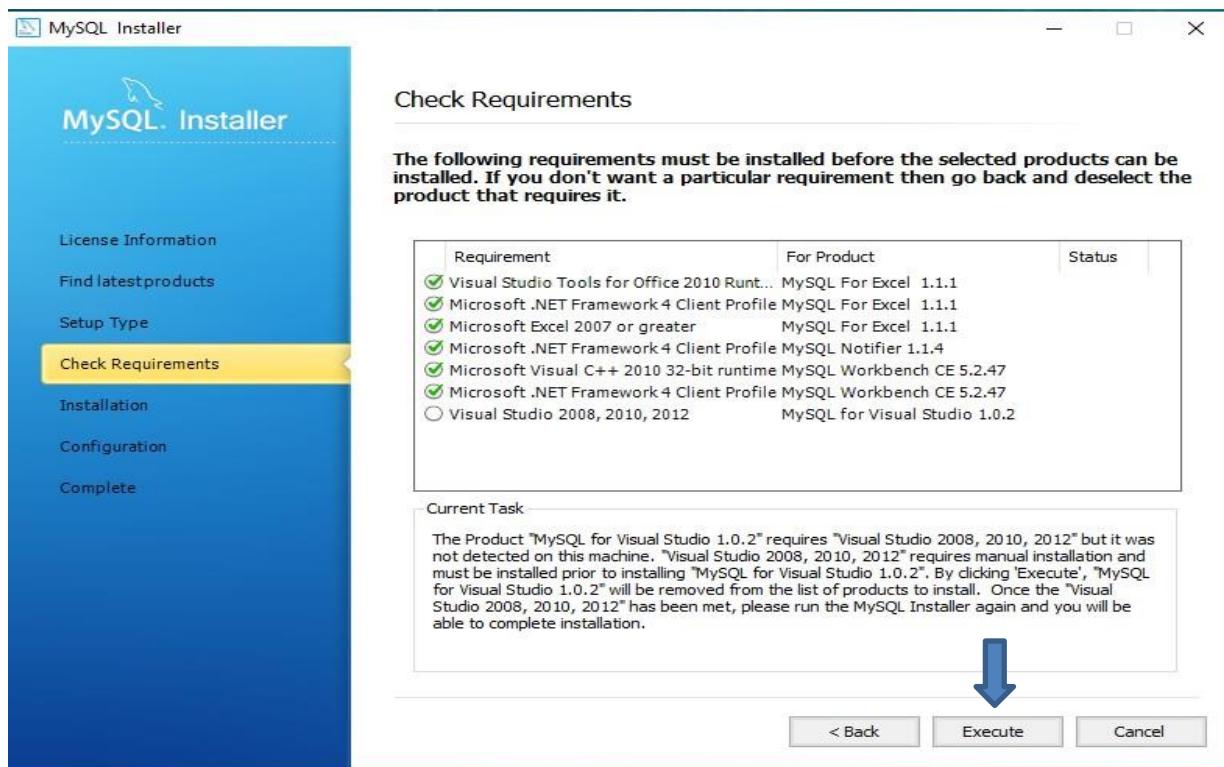
4. Accept the license and click next.



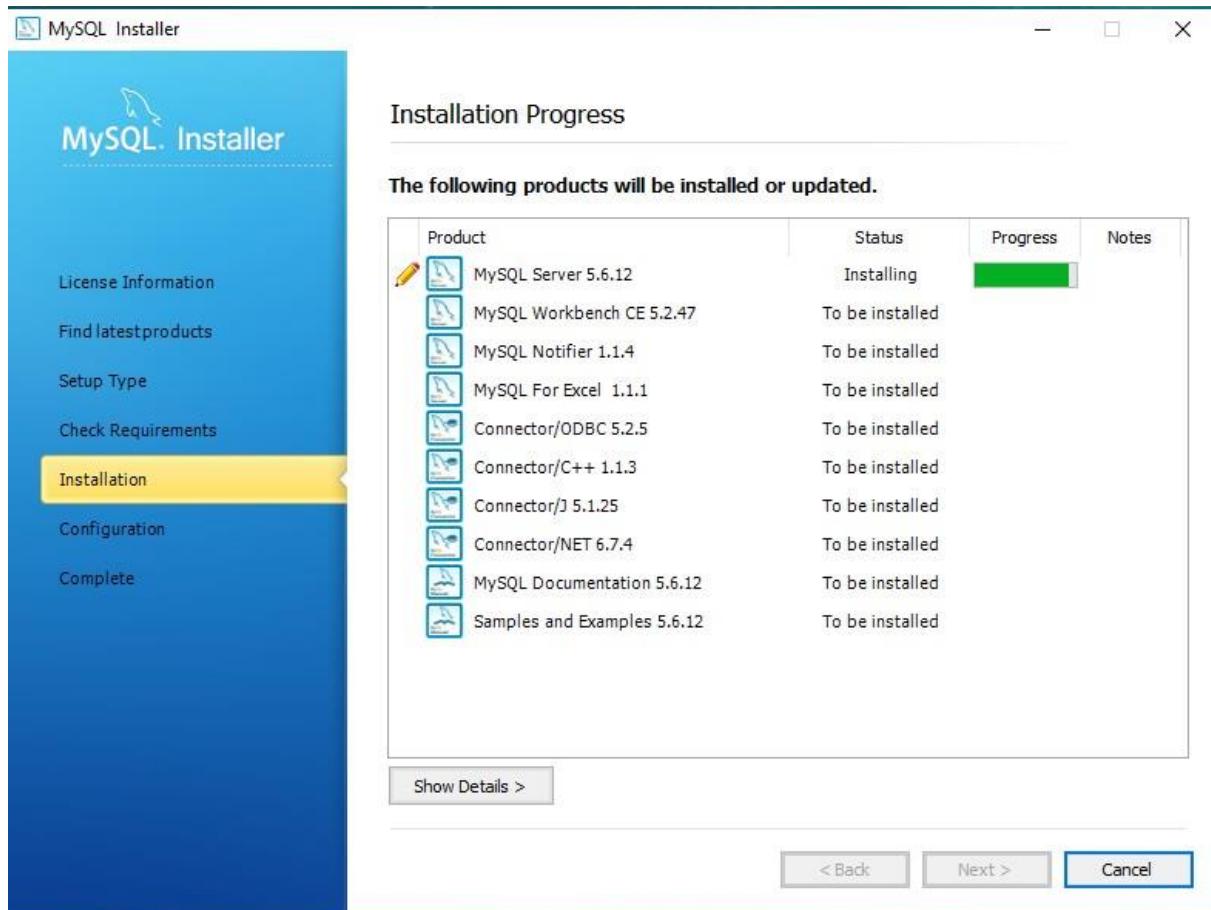
5. Choose developer default and click next.



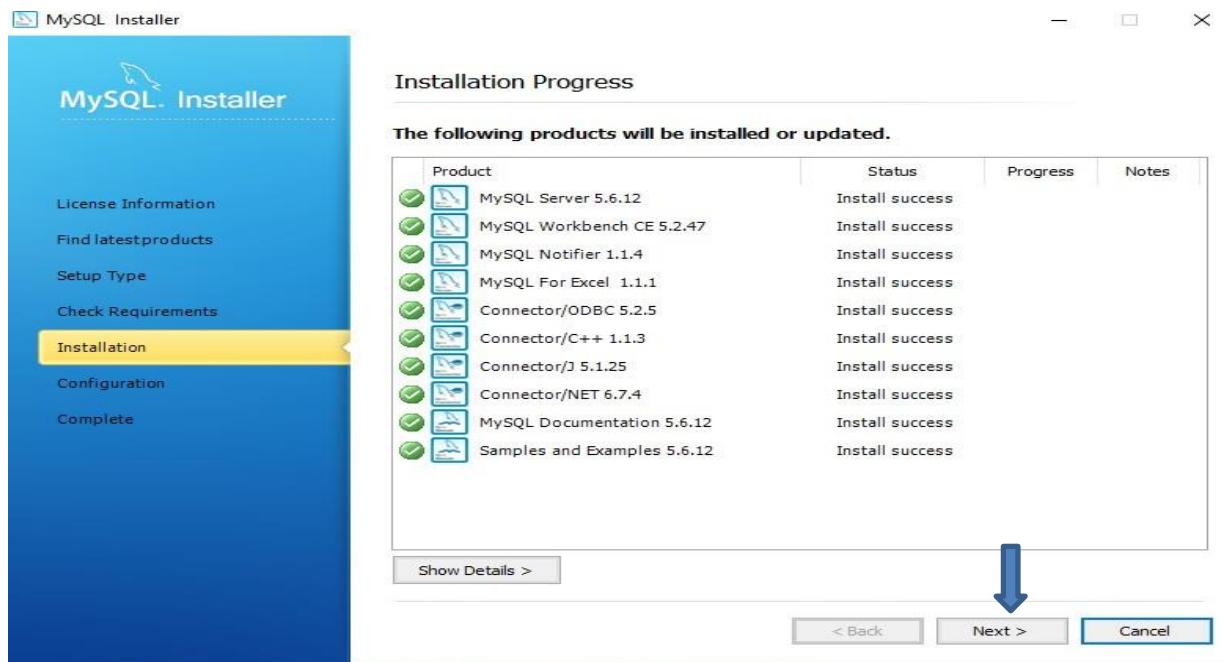
6. Check all the prerequisite and click on execute.



7. Let all the application install.



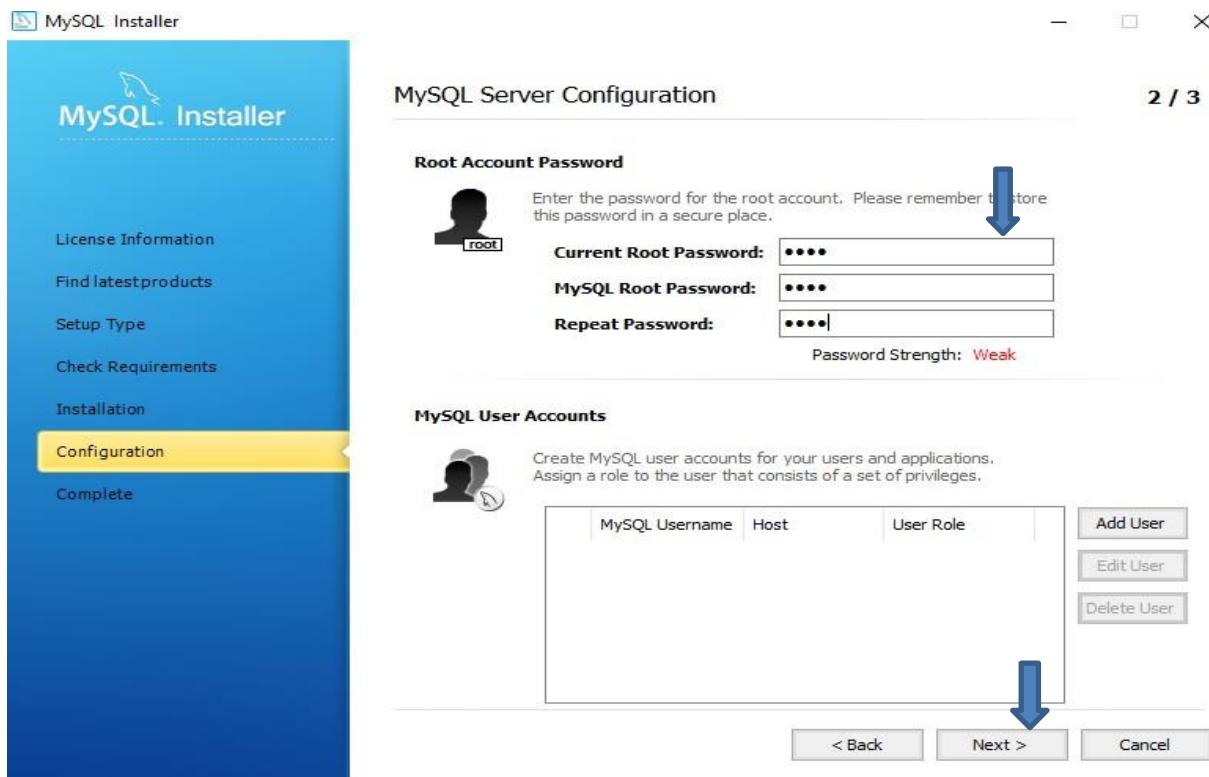
8. Once everything is installed click on next.



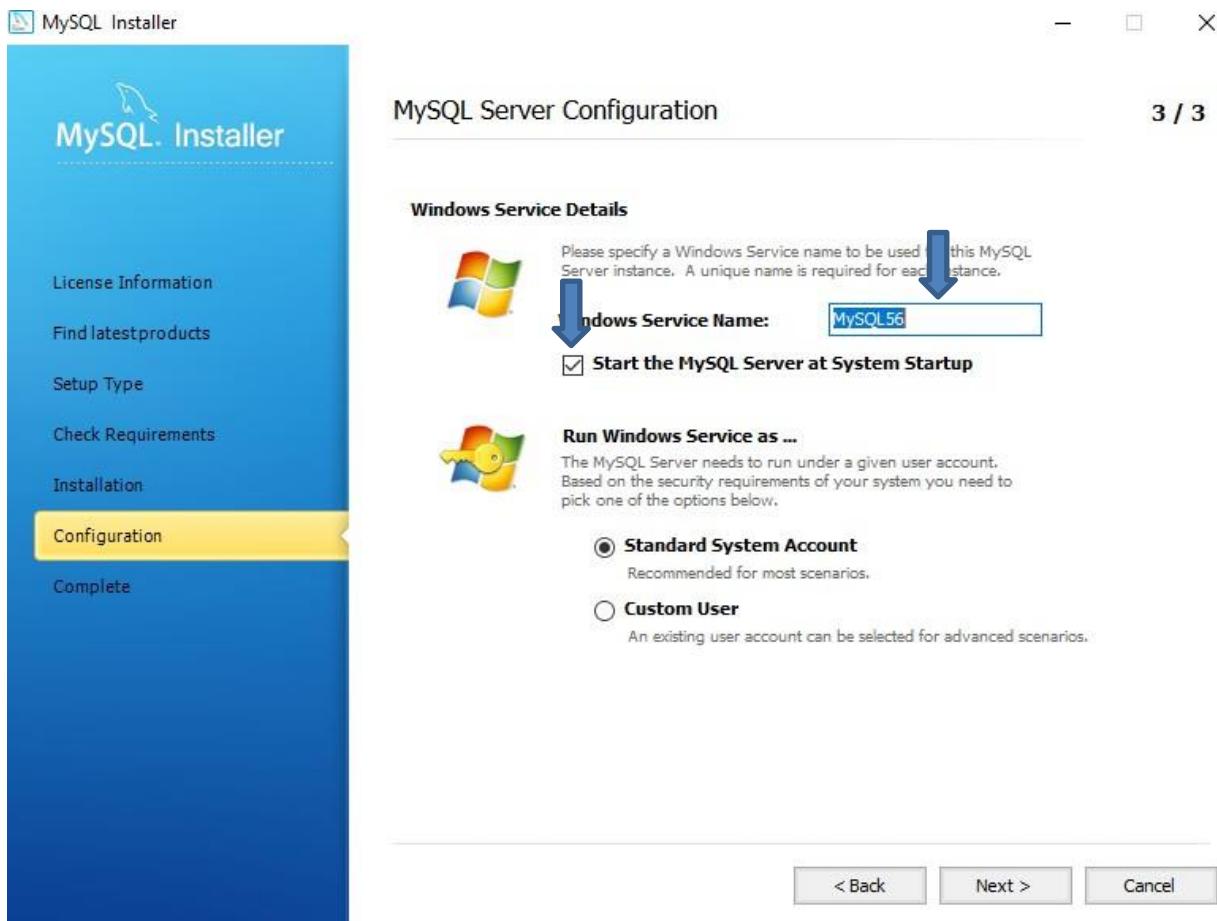
9. Make sure that the port is **3306** and click next.



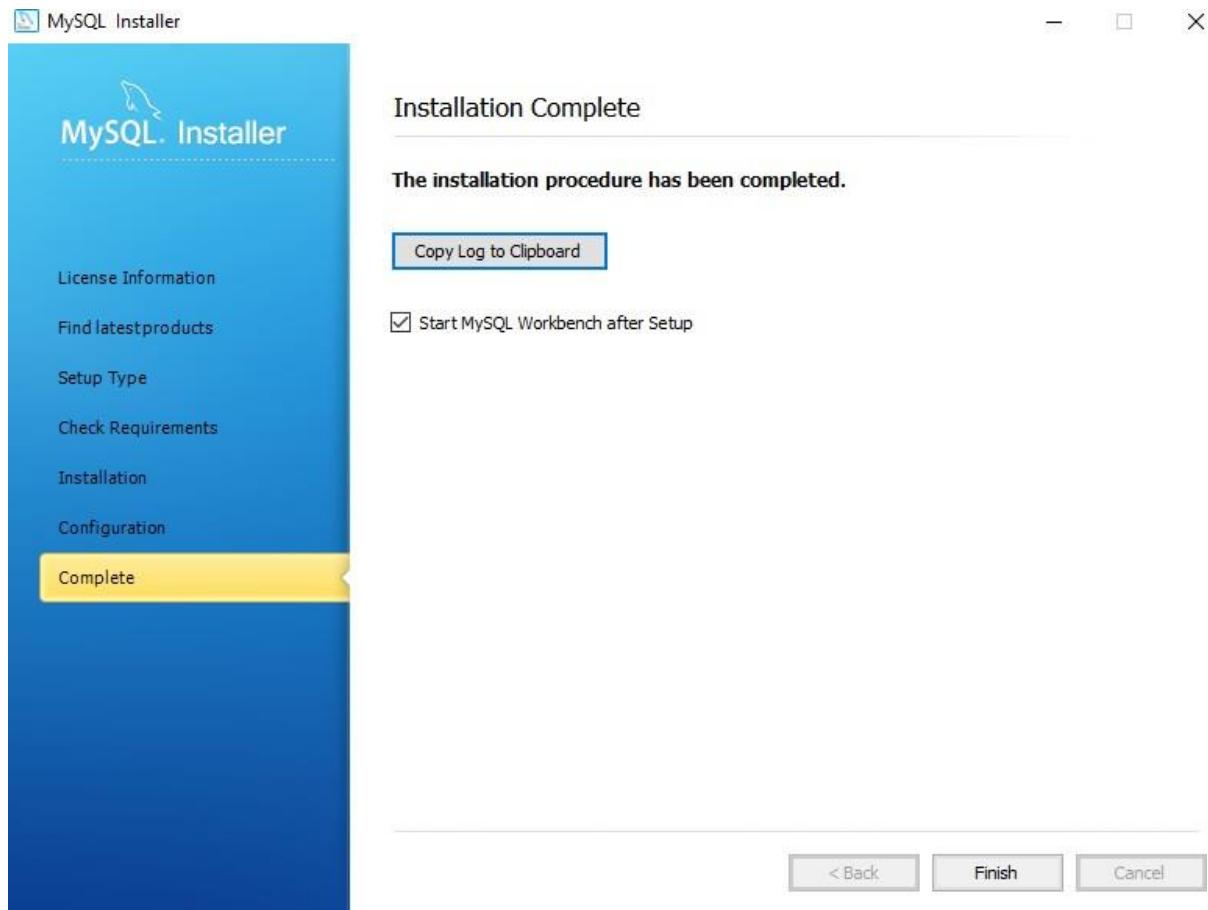
10. Enter password as **root** and click next.



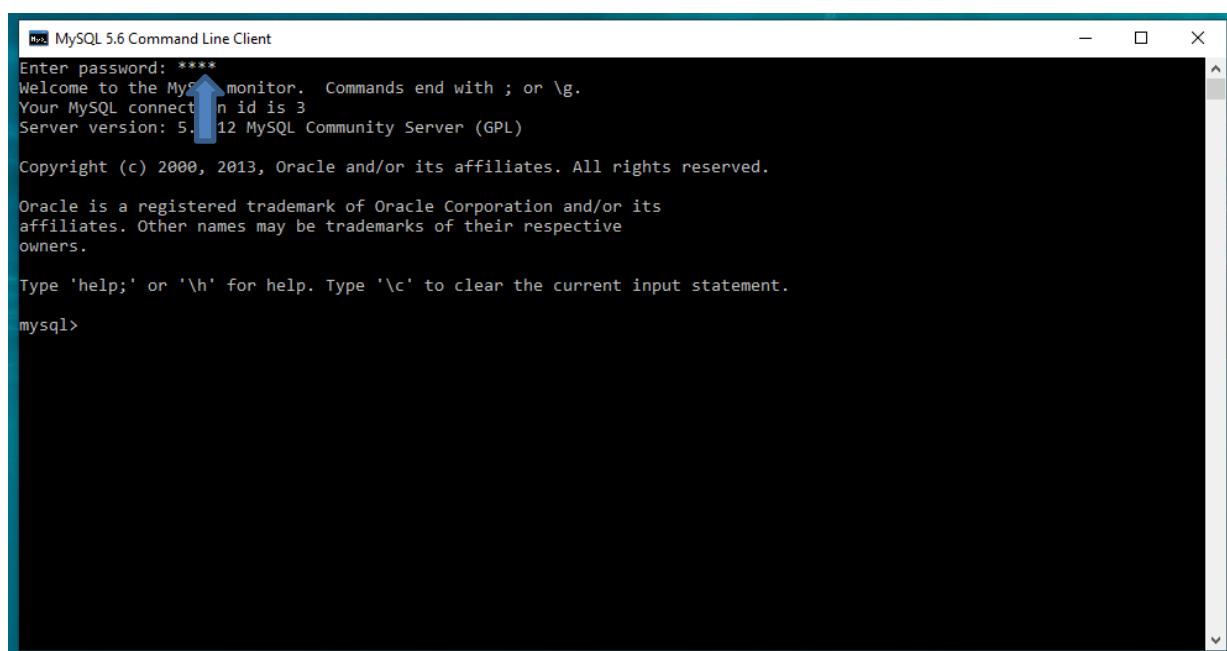
11. Do not change any default and Click next.



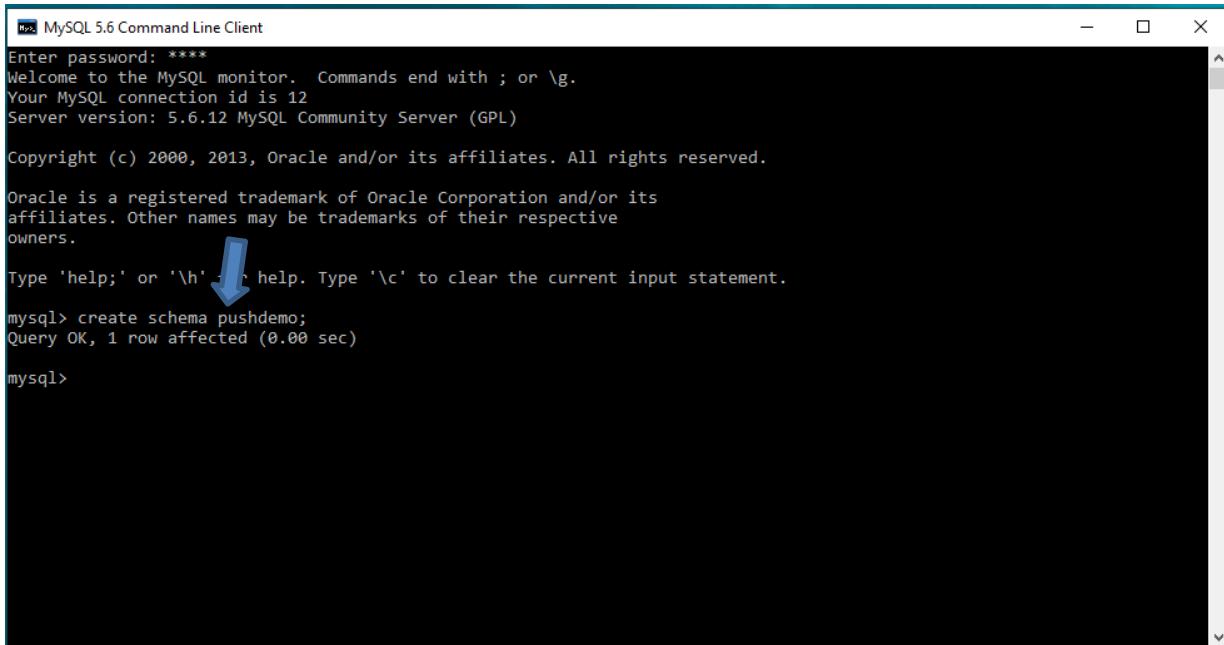
12. Click finish.



13. Press **windows** and search **MySQL 5.6 Command Line Client** to open command line for mysql and enter **root** as password when prompted for password.



#### 14. create a new data base as **pushdem**.



MySQL 5.6 Command Line Client

```
Enter password: *****
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 5.6.12 MySQL Community Server (GPL)

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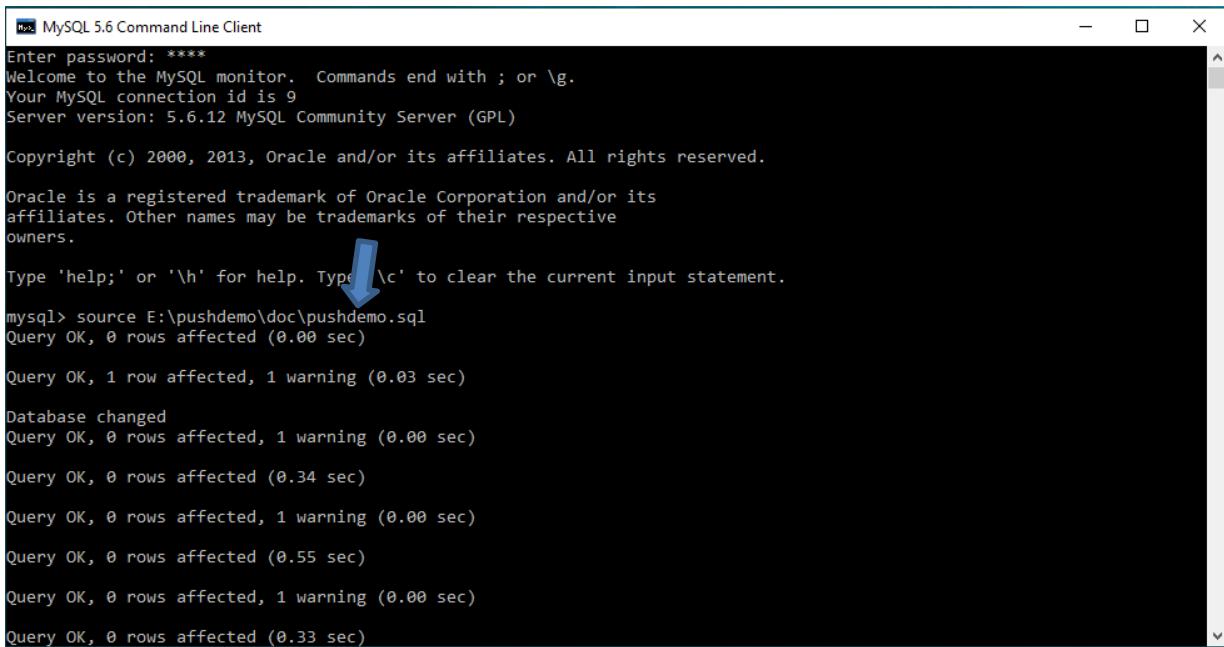
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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create schema pushdemo;
Query OK, 1 row affected (0.00 sec)

mysql>
```

#### 15. import all the tables to the **pushdemo** data base source { path to the .sqlfile}.



MySQL 5.6 Command Line Client

```
Enter password: *****
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 5.6.12 MySQL Community Server (GPL)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> source E:\pushdemo\doc\pushdemo.sql
Query OK, 0 rows affected (0.00 sec)

Query OK, 1 row affected, 1 warning (0.03 sec)

Database changed
Query OK, 0 rows affected, 1 warning (0.00 sec)

Query OK, 0 rows affected (0.34 sec)

Query OK, 0 rows affected, 1 warning (0.00 sec)

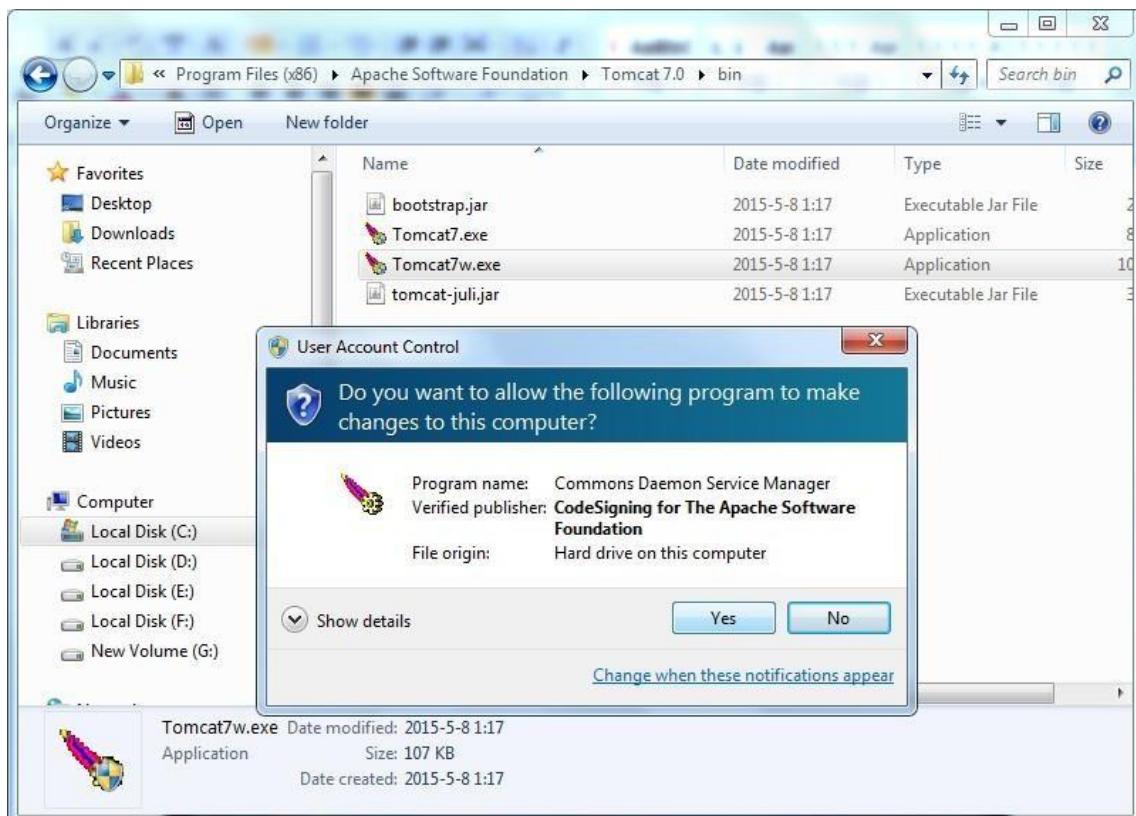
Query OK, 0 rows affected (0.55 sec)

Query OK, 0 rows affected, 1 warning (0.00 sec)

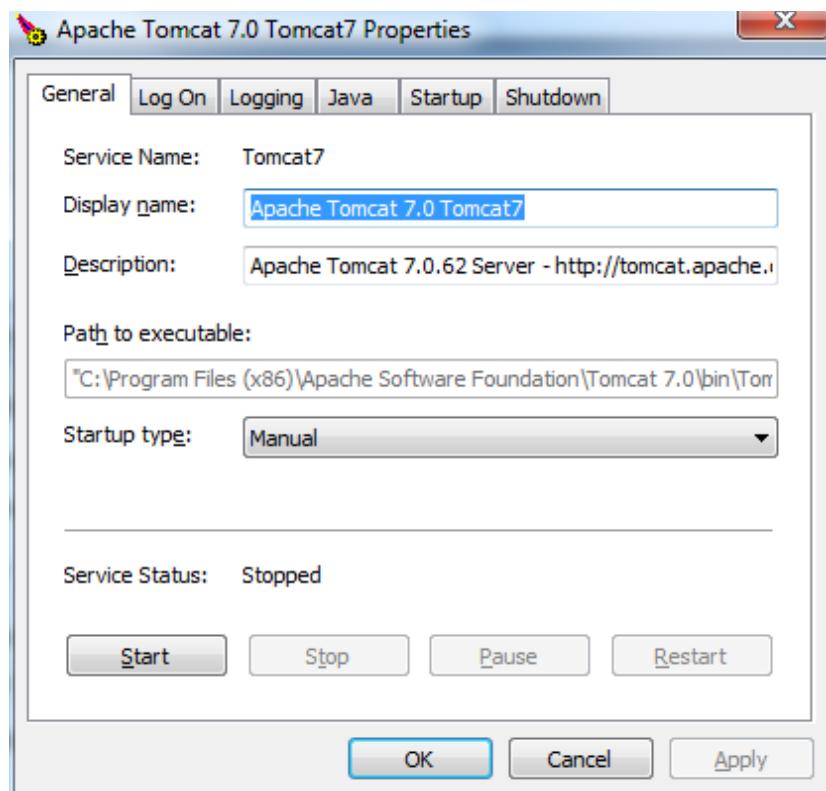
Query OK, 0 rows affected (0.33 sec)
```

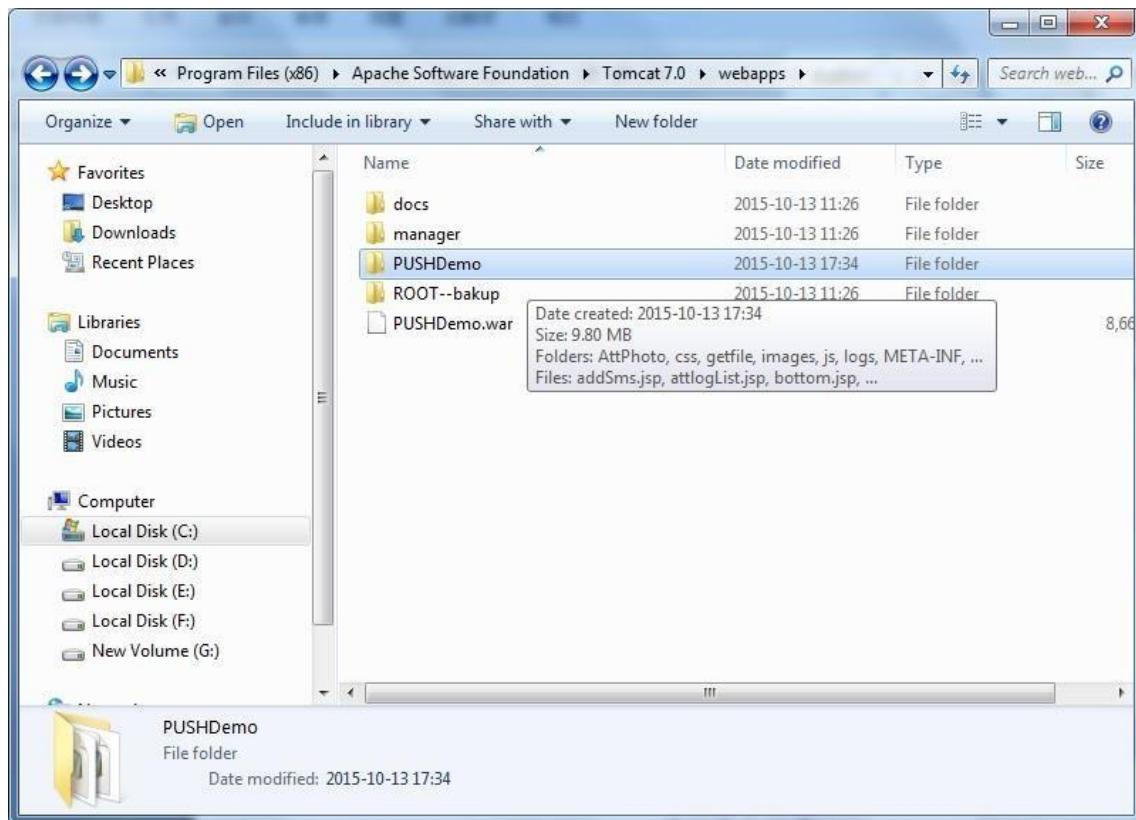
# 1 Program Deployment

1. Copy the file **PUSHDemo.war** to the directory **webapps**.
  - ✓ Run the program **tomcat7w.exe** in the **bin** directory of the Tomcat installation directory.



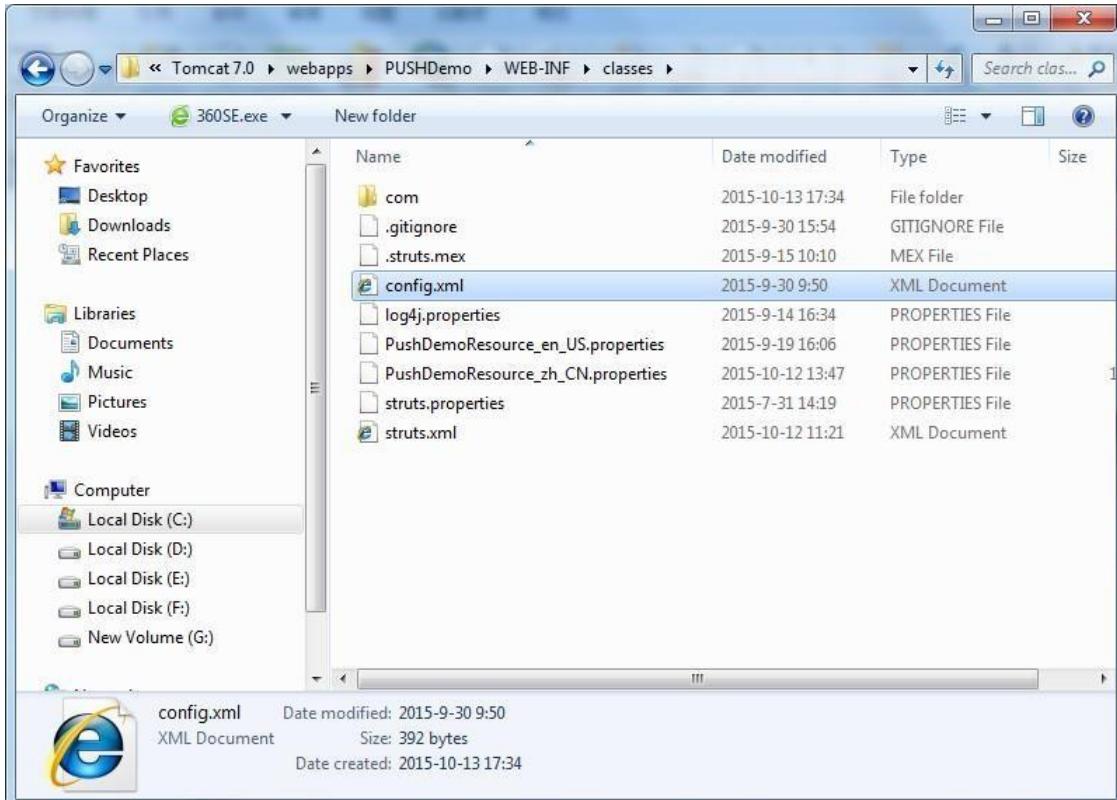
- ✓ Click **Start** to run **PUSHDemo.war** and automatically decompress the **PUSHDemo** directory.



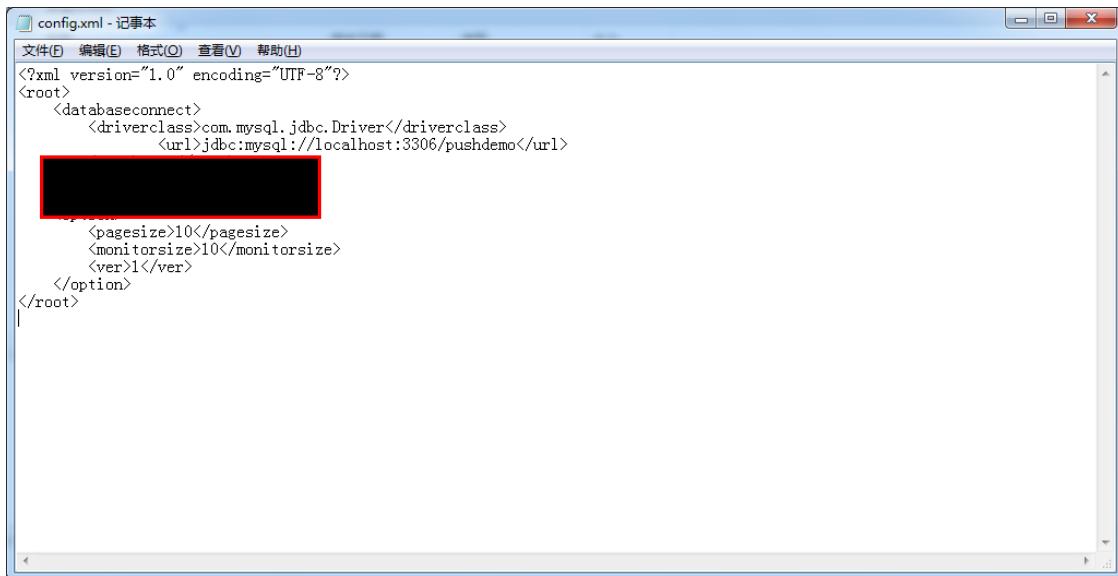


## 2. Modify MySQL connection parameters.

✓ Access the directory **ROOT\WEB-INF\classes** to edit the file **config.xml**.

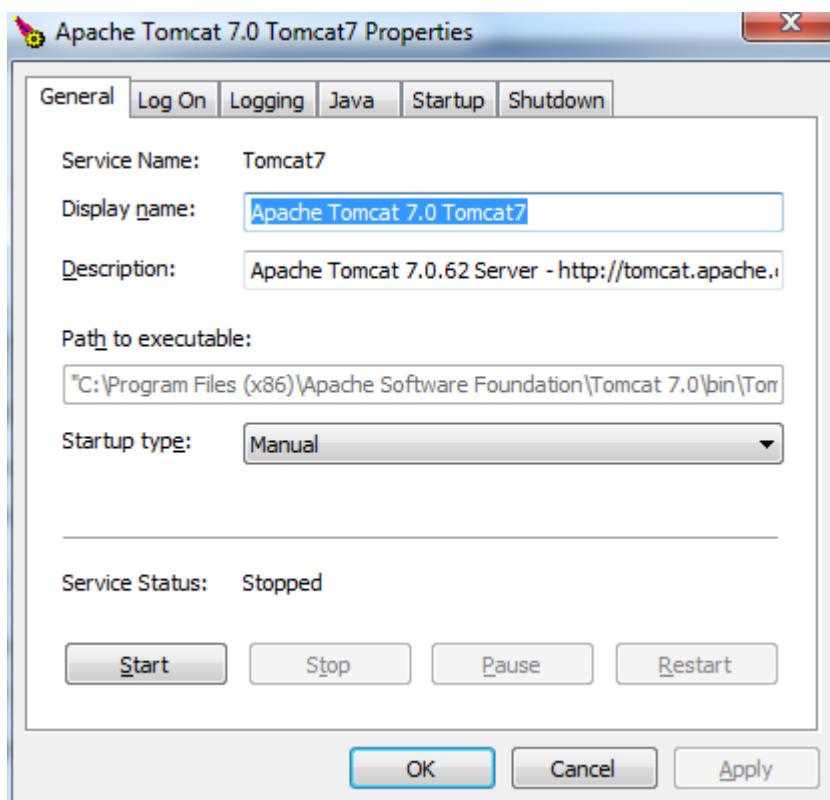


3. Modify MySQL username and password (password modified during data installation), as shown below:



```
<?xml version="1.0" encoding="UTF-8"?>
<root>
    <databaseconnect>
        <driverclass>com.mysql.jdbc.Driver</driverclass>
        <url>jdbc:mysql://localhost:3306/pushdemo</url>
        <username>[REDACTED]</username>
        <password>[REDACTED]</password>
        <pagesize>10</pagesize>
        <monitorsize>10</monitorsize>
        <ver>1</ver>
    </option>
</root>
```

4. Click **Start** to enable Tomcat service.



5. Verify PUSH WEB DEMO running.

- ✓ Enter the URL <http://localhost:8080/PUSHDemo> in the browser URL box and press **Enter**.
- ✓ The program will automatically redirect to the default page. The deployment task is complete.

