

PUSH-DEMO

Deployment Guide

Version: V1.0

Revision History

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

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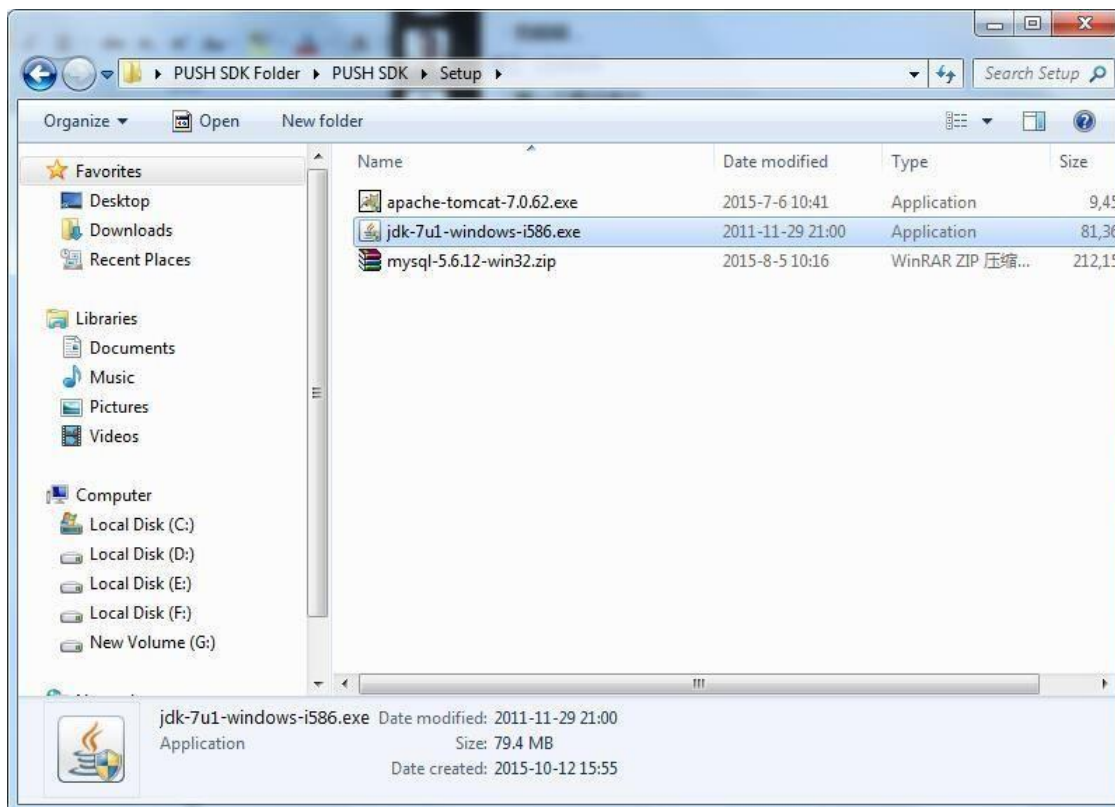
1 Test Environment Establishment

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

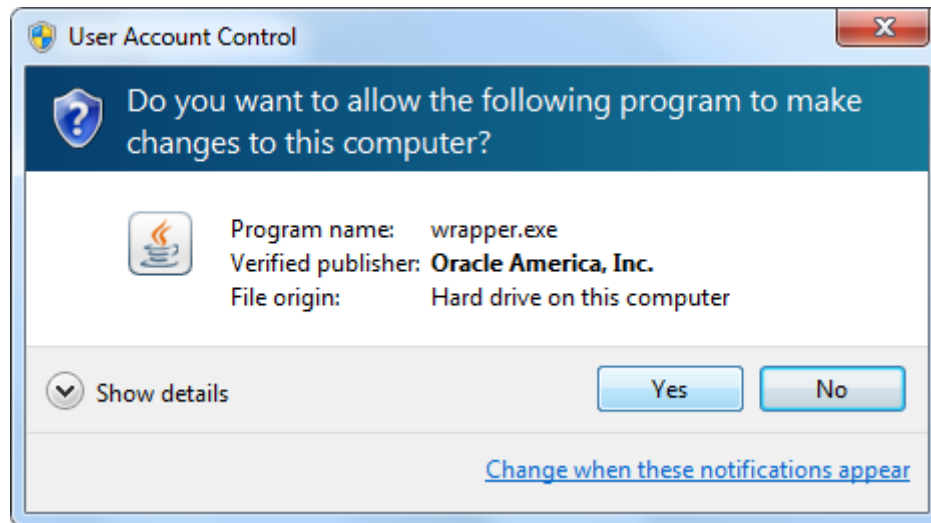
JDK version: jdk-7u1-windows-i586.exe. For details on the installation procedure of other versions, refer to the guide on the official website of Java.

1.1 JDK Installation

1. Double-click the installation package.



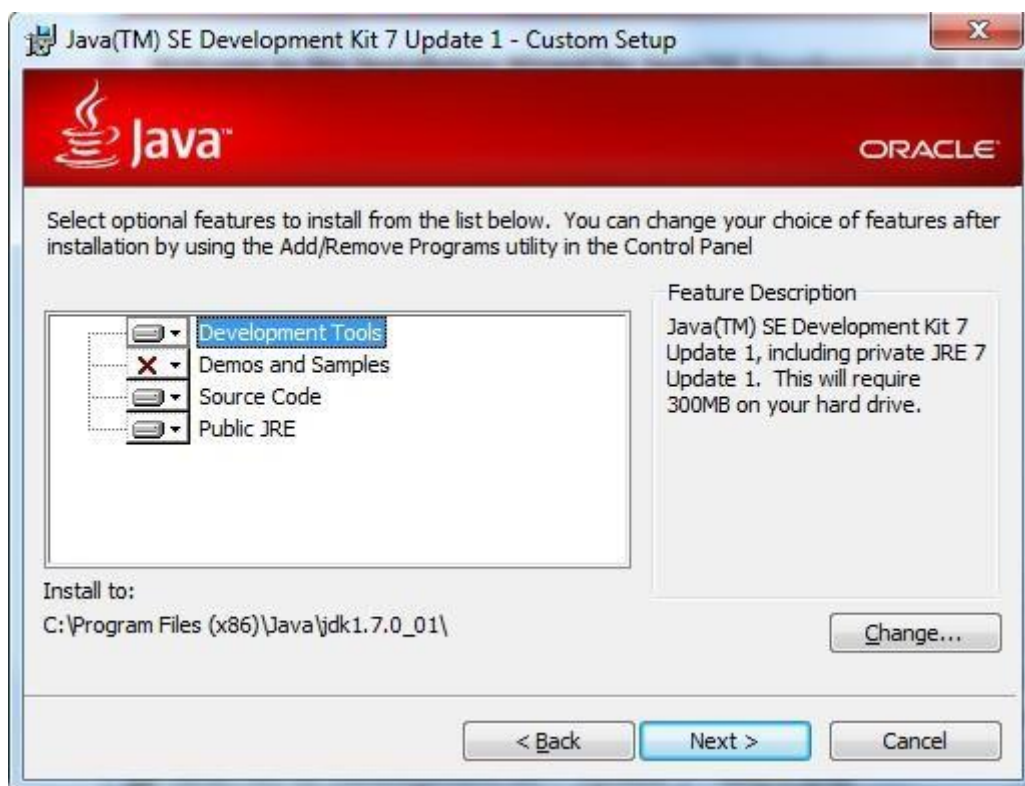
- 2.



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:



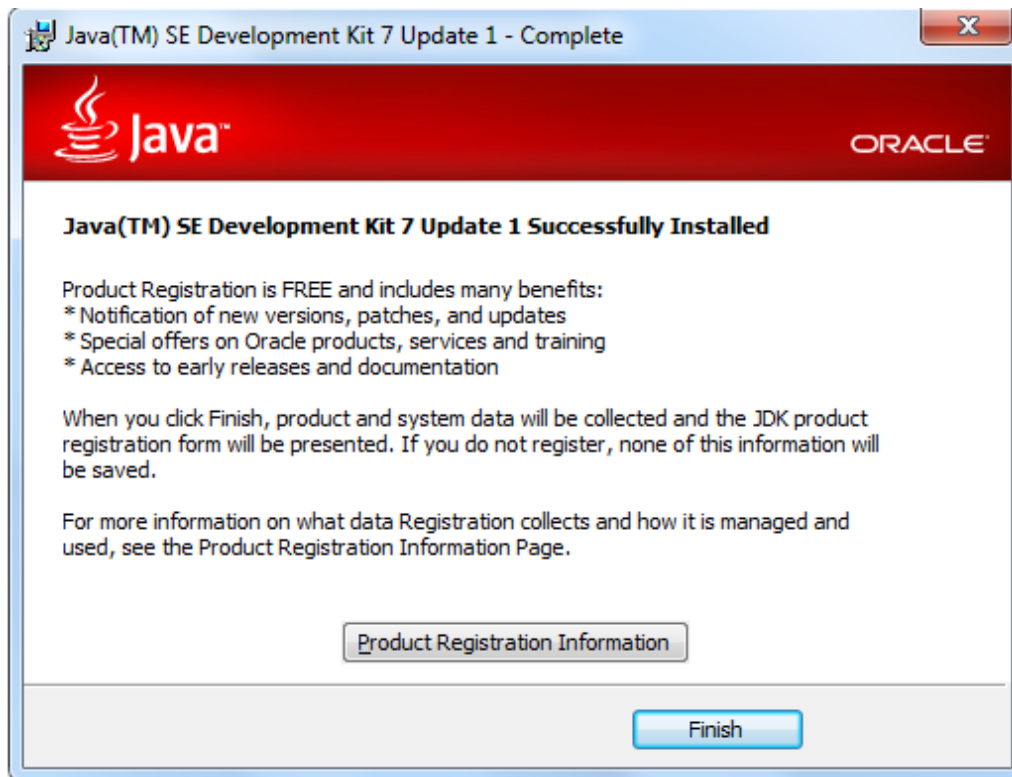
6. Install jre after the installation of JDK is complete. Here, the default installation path is **C:\Program Files\Java\re7**. Click **Next**.

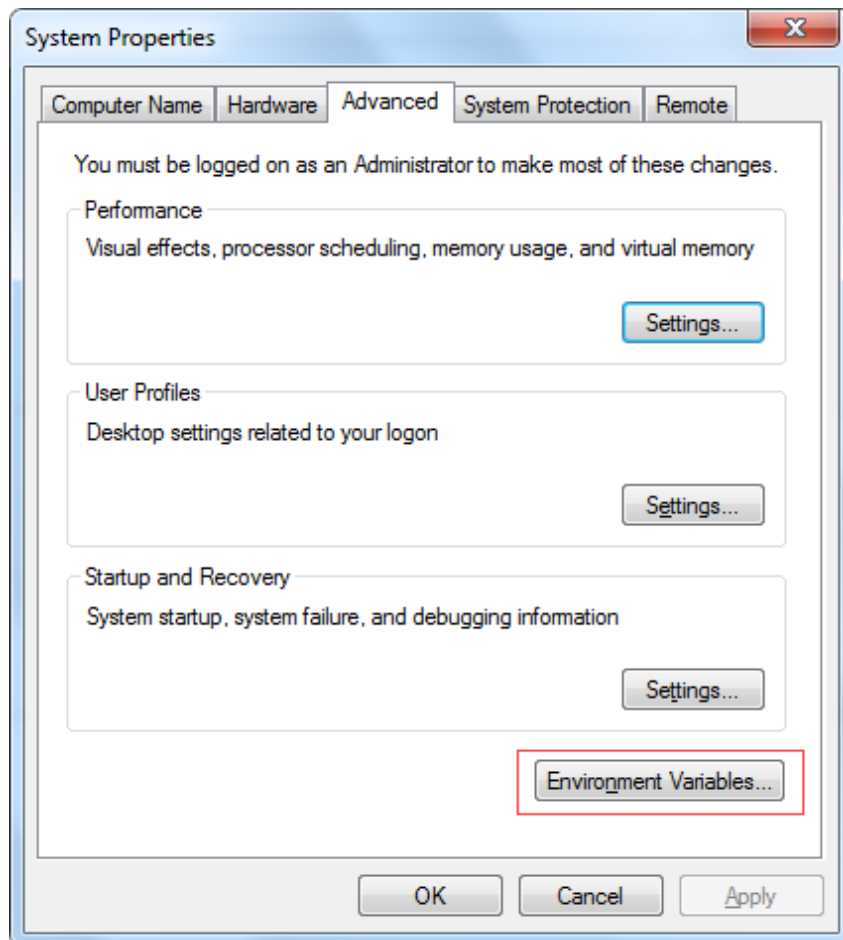


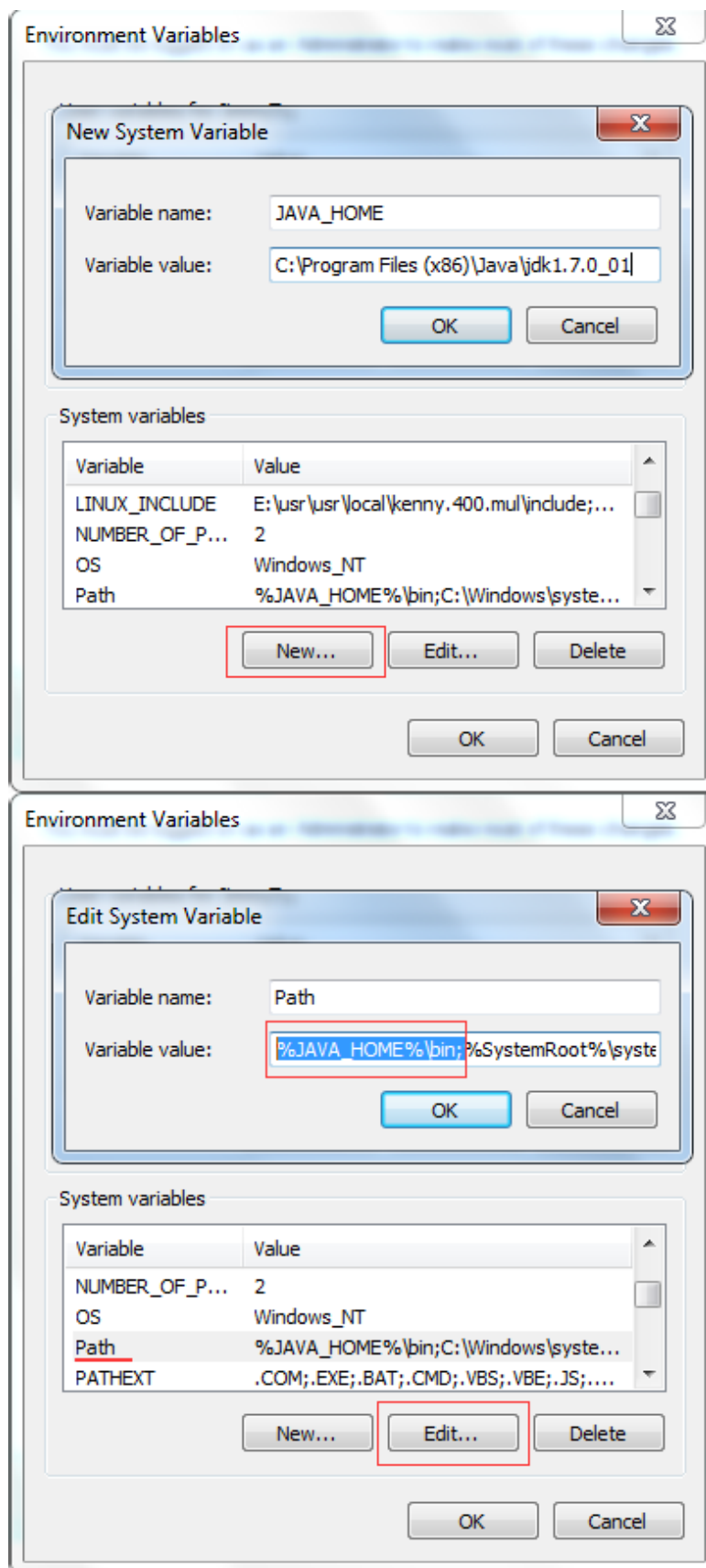
7. The installation progress will be shown as below:



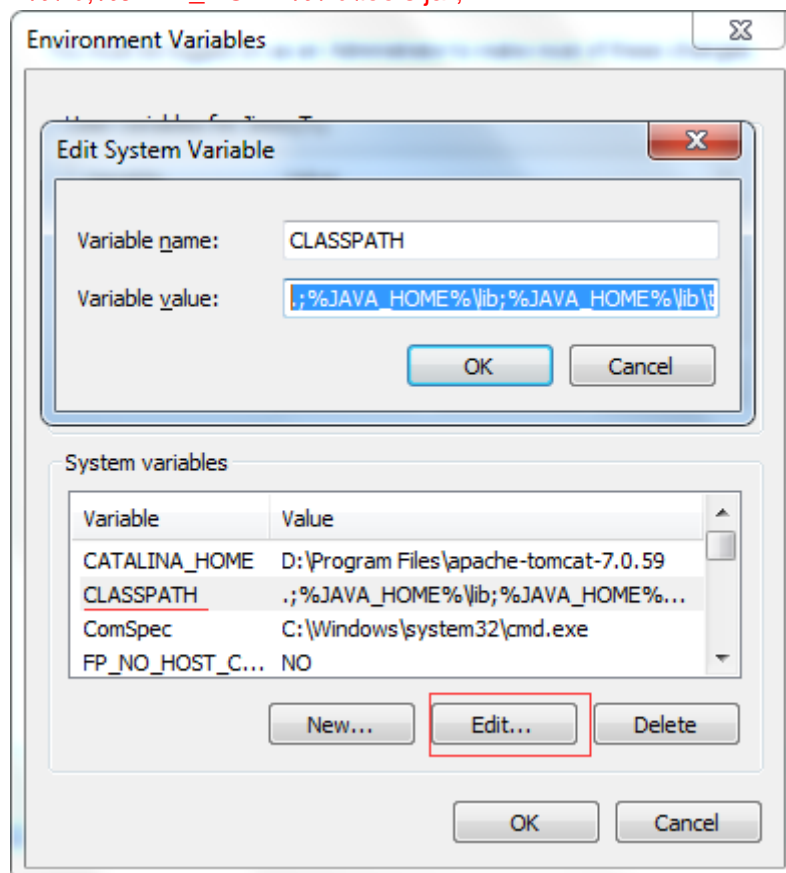
8. JDK installation is complete.



Configure environment variables in the Java system.

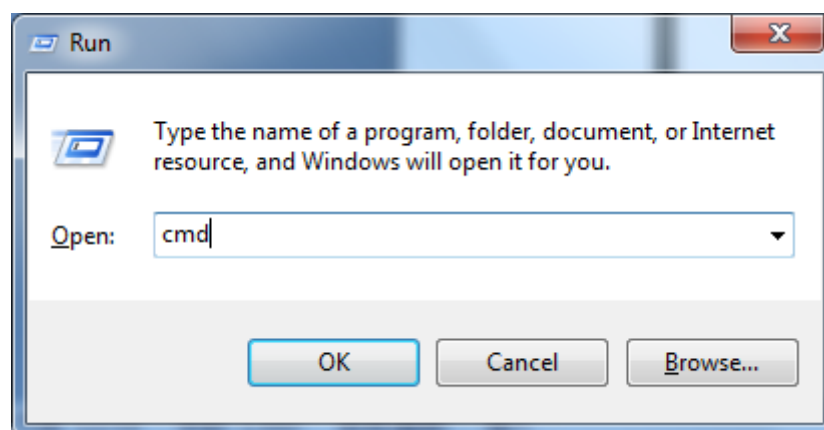


Add the Java library to the CLASSPATH variable; the value of this variable is as follows:
%JAVA_HOME%\lib;%JAVA_HOME%\lib\tools.jar;

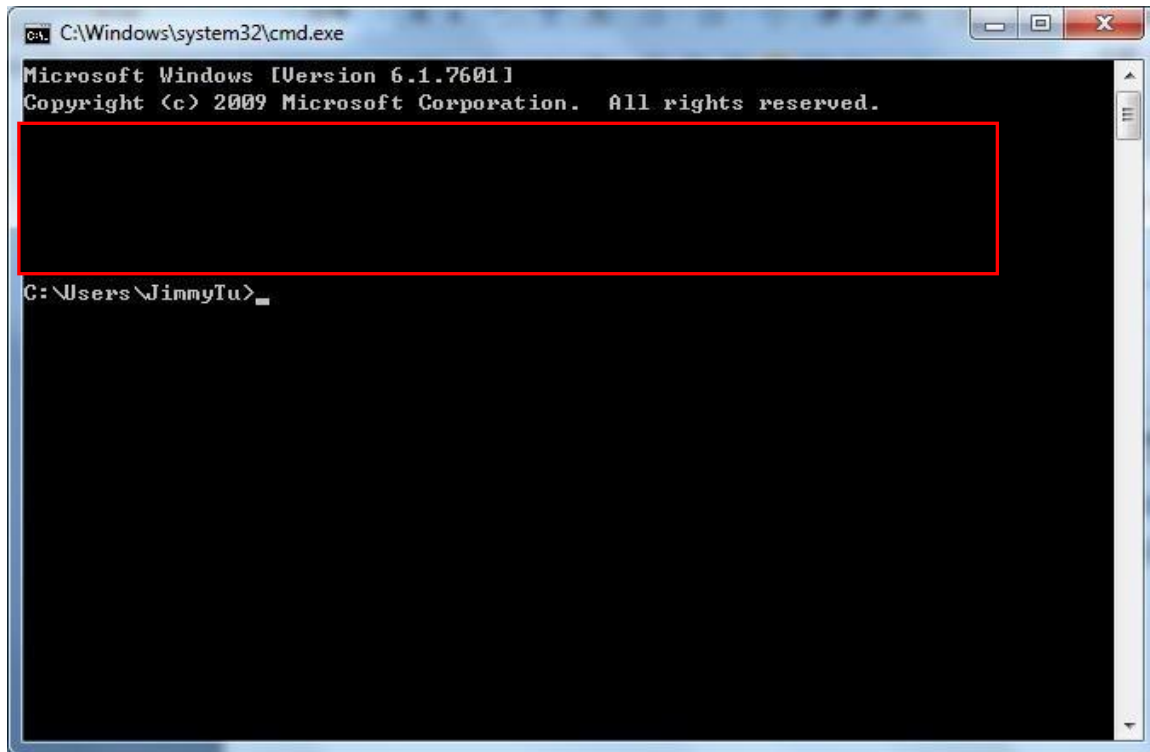


After the configuration, restart the PC and check the configuration.

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



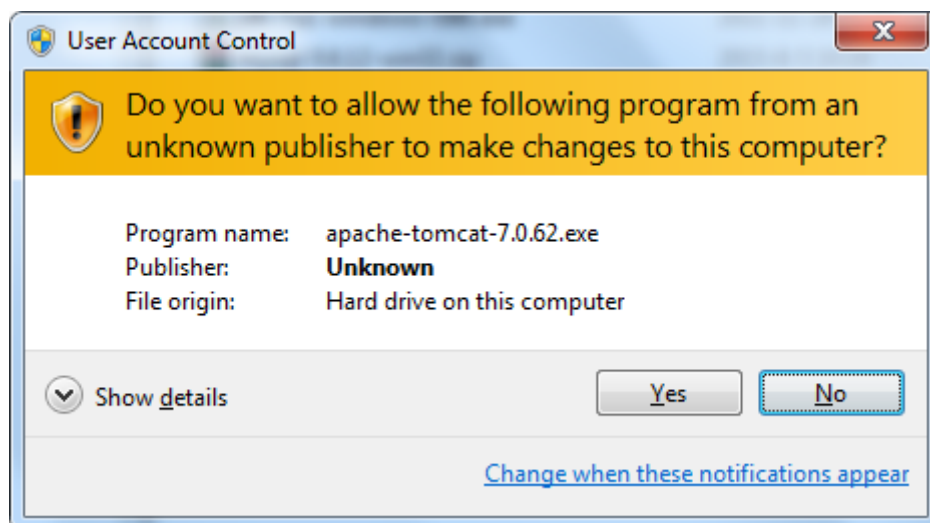
2. Enter the command **java -version**. The information framed in the following figure is shown, indicating successful JDK installation.



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.

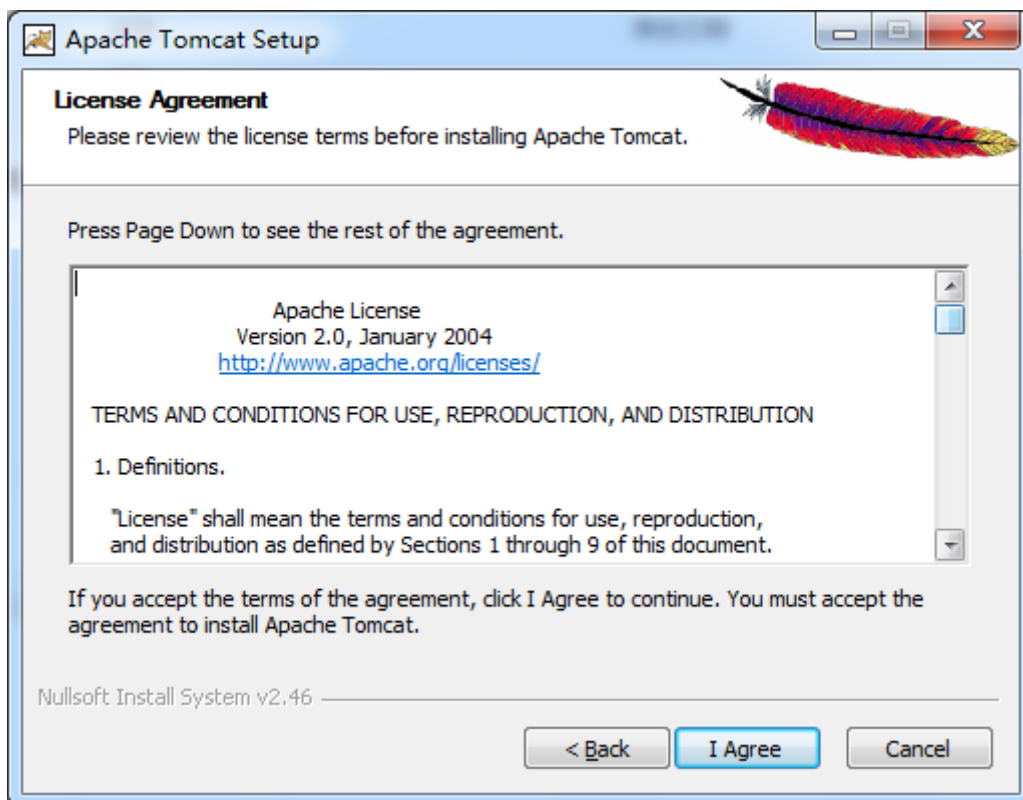
1. Double-click the installation package. A permission control dialog box appears. Click **Yes**.



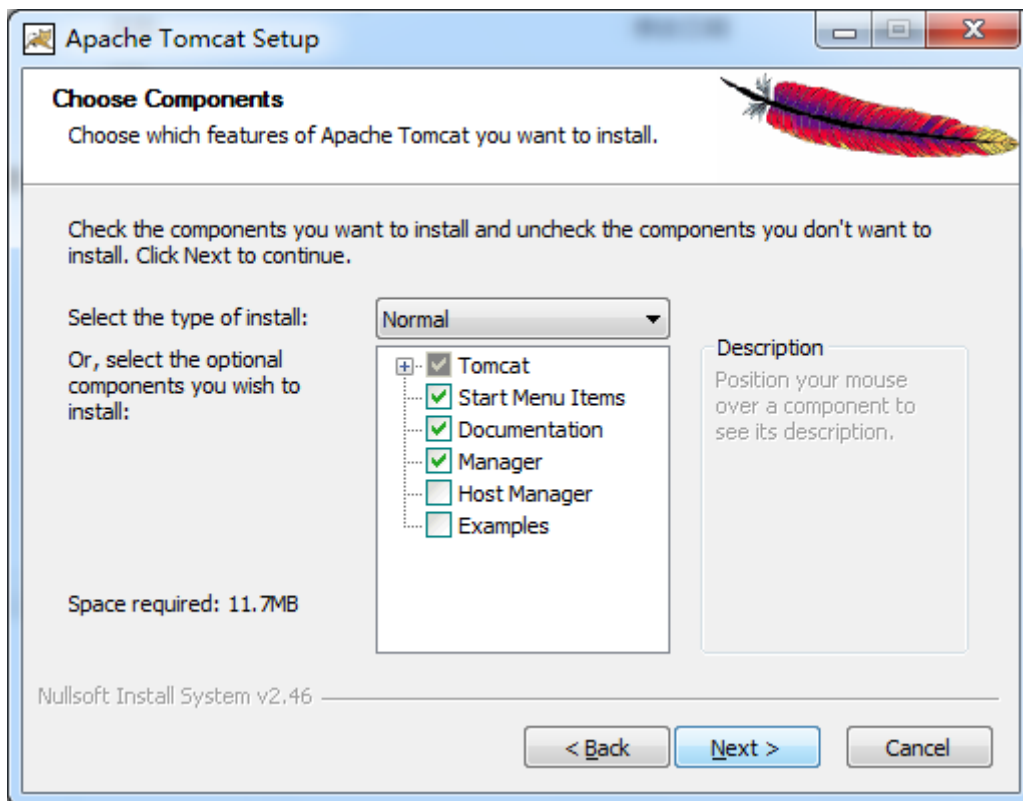
2. Click **Next**.



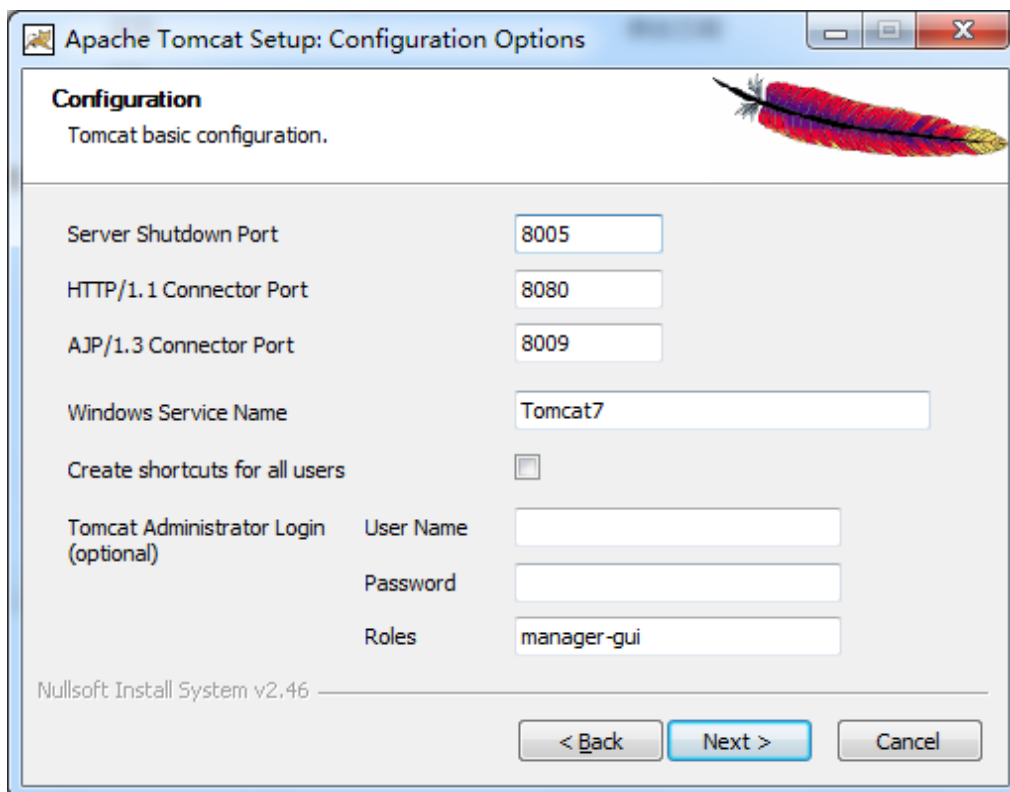
3. In the license agreement window, click **I Agree**.



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

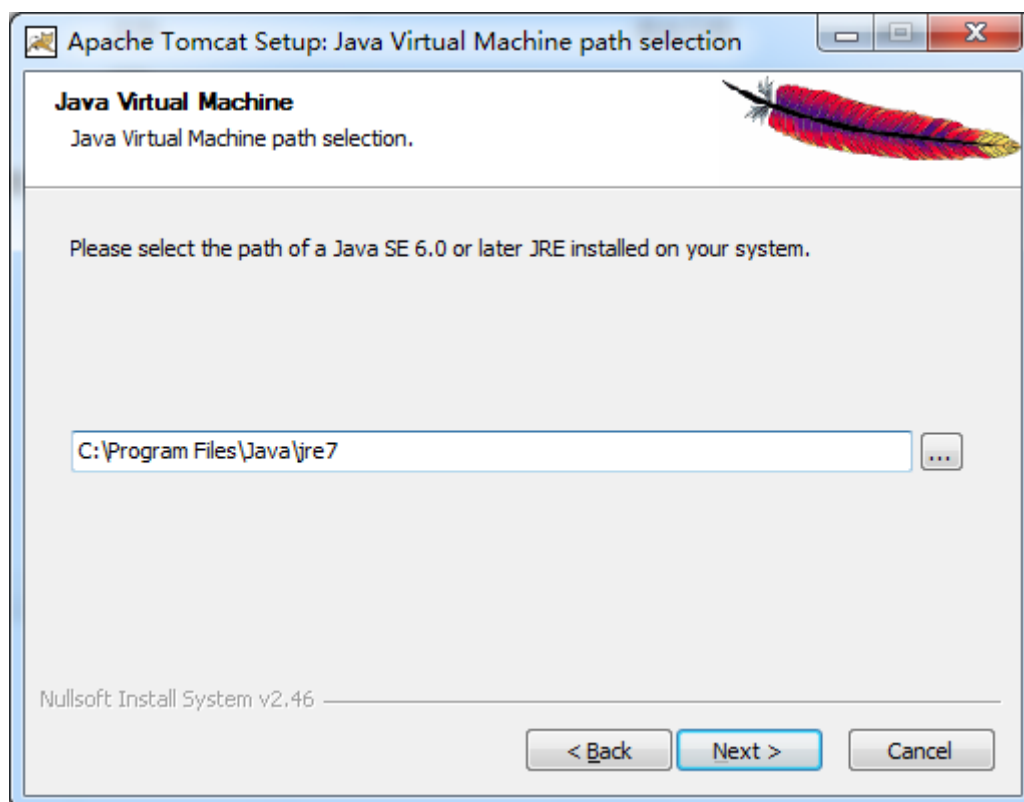


5. Configure a port and server name. Here, the default configuration is used: HTTP port is **8080**. Click **Next**.

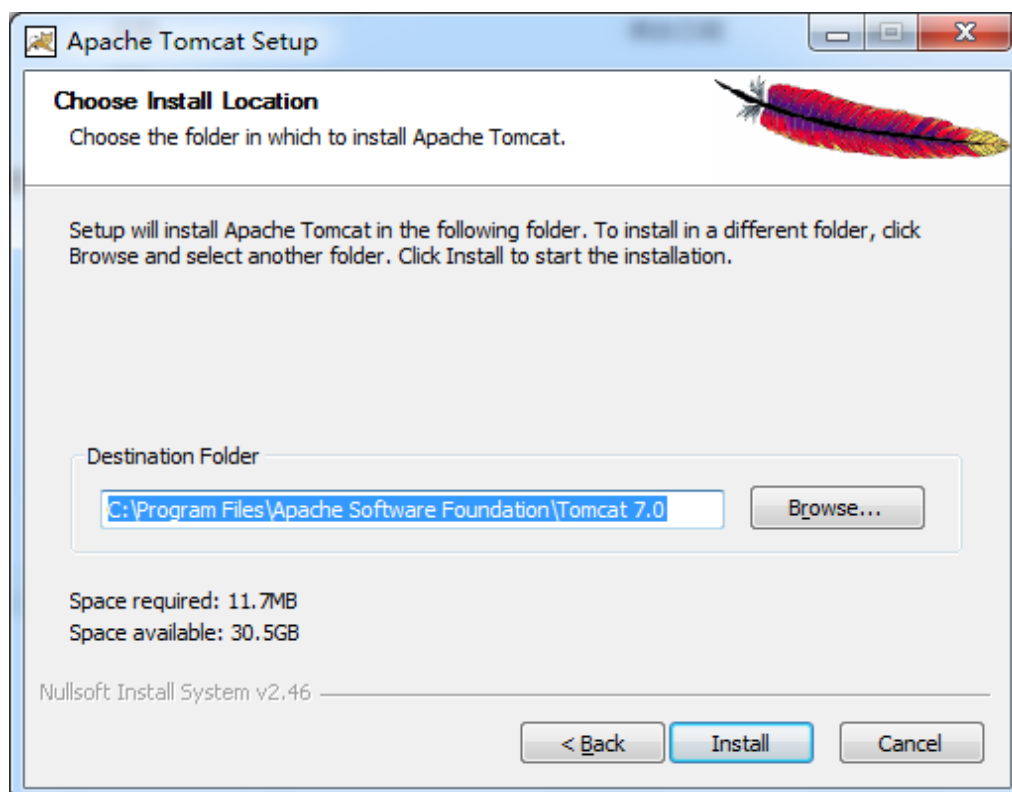


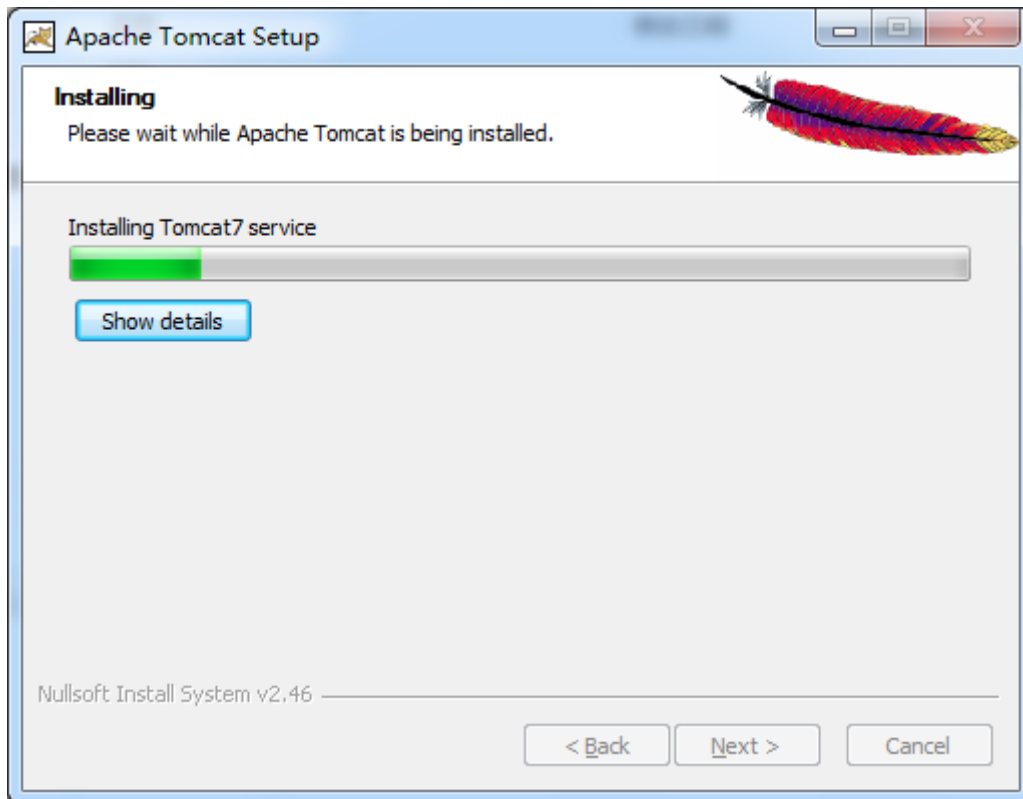
6. Select JRE virtual machine environment. Here, the default path is used. Click **Next**.

Note: Tomcat7 must be supported by later versions of JRE6.

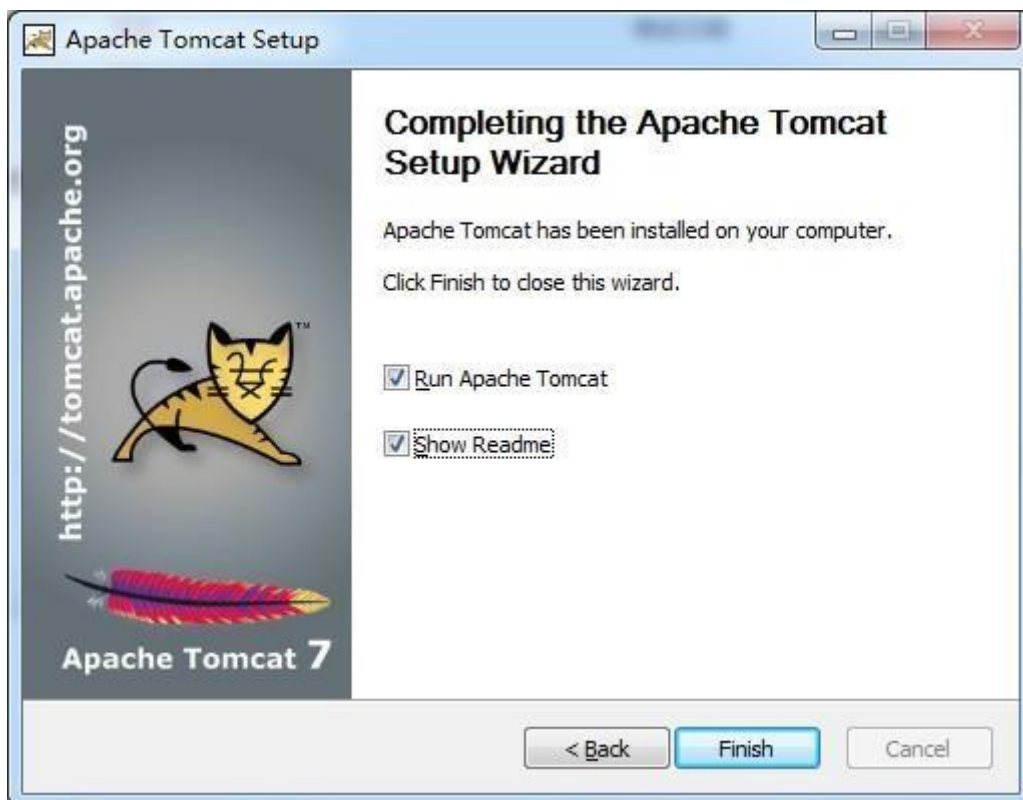


7. Select a path. Here, the default installation path is used. Click **Install**.





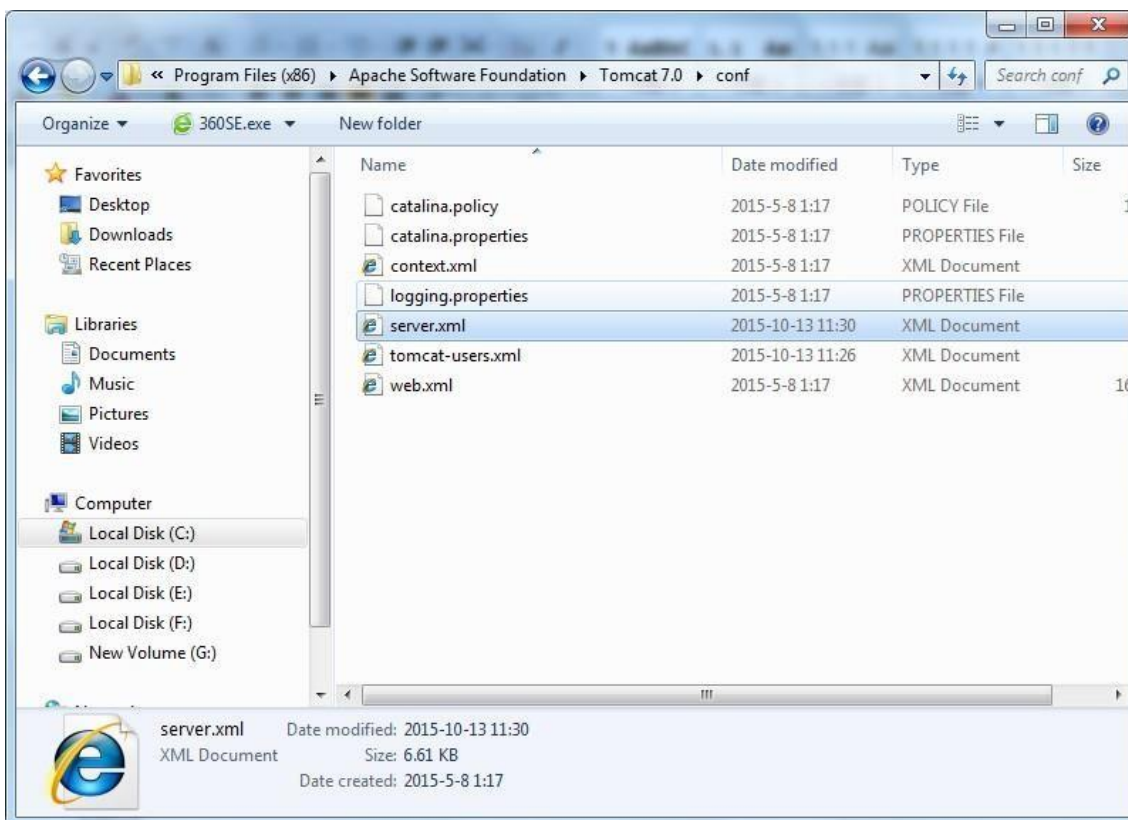
8. After the installation, deselect the combo boxes and click **Finish**.



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:

```

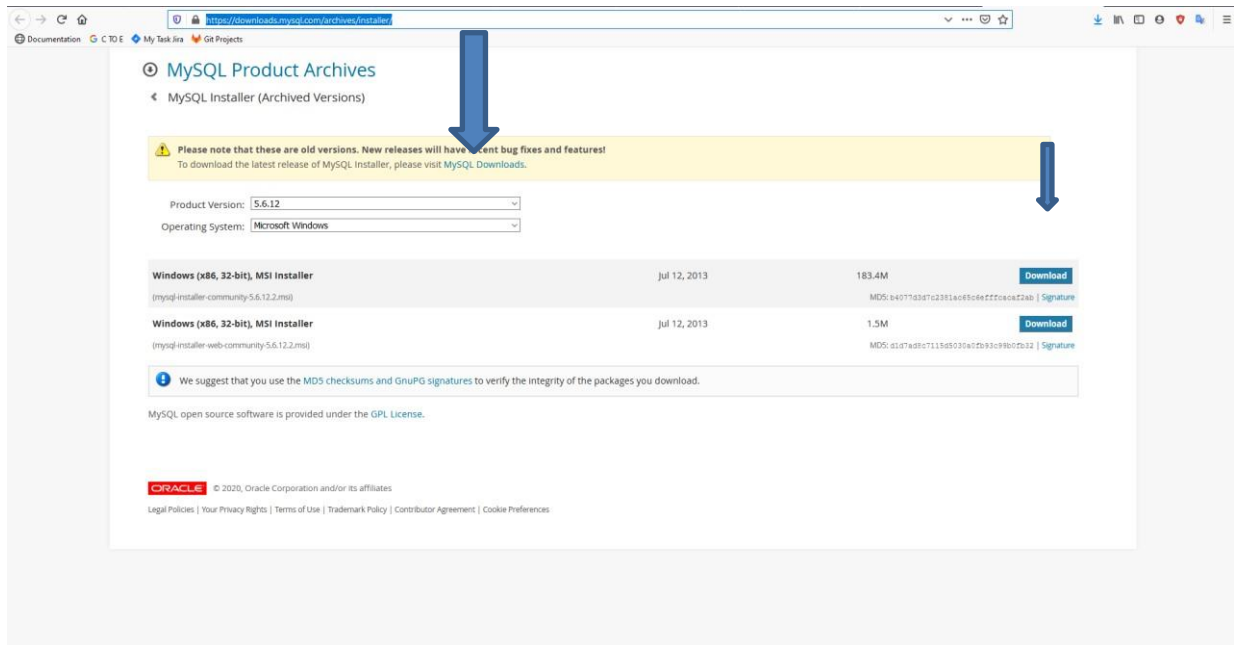
60
61
62 <!-- A "Connector" represents an endpoint by which requests are received
63      and responses are returned. Documentation at :
64      Java HTTP Connector: /docs/config/http.html (blocking & non-blocking)
65      Java AJP Connector: /docs/config/ajp.html
66      APR (HTTP/AJP) Connector: /docs/apr.html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

```

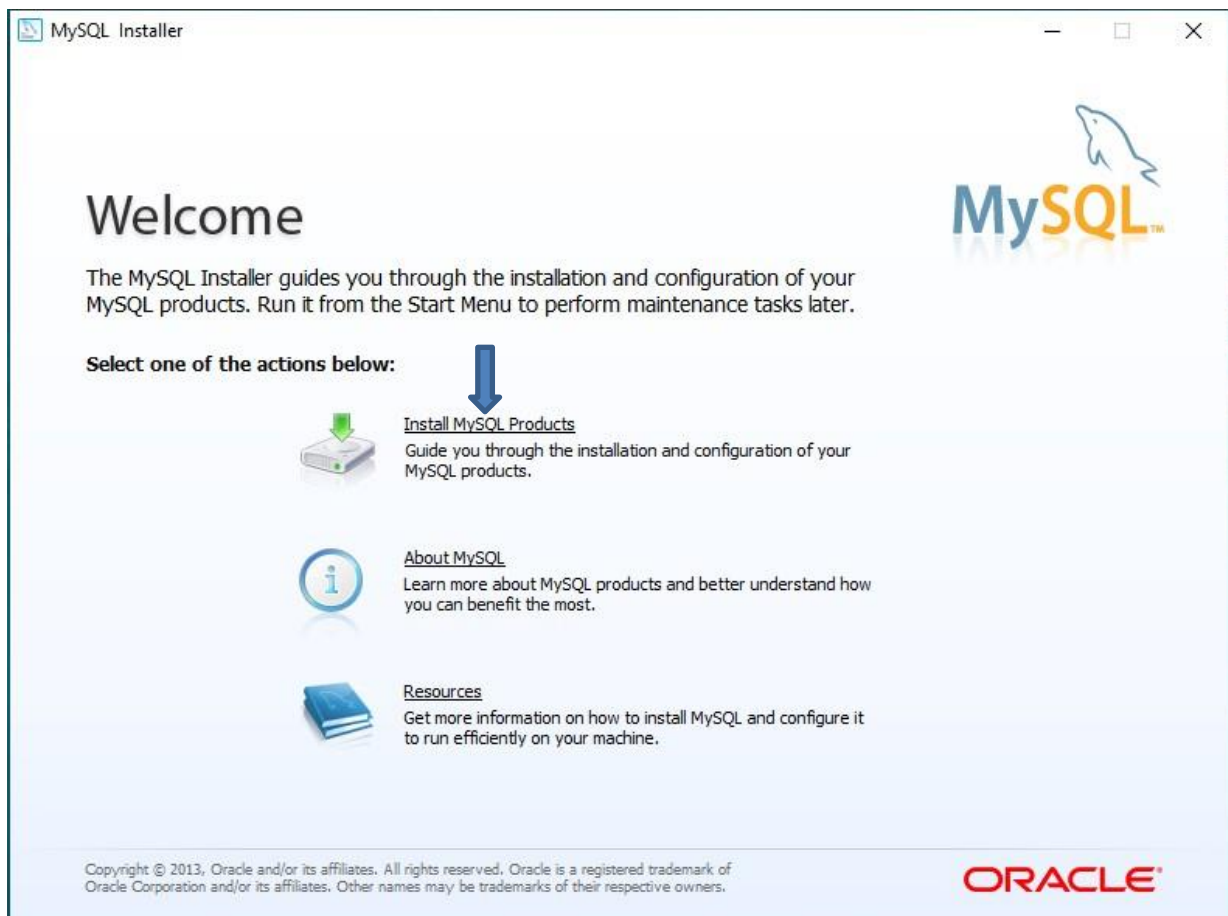
1.3 MySQL Installation

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

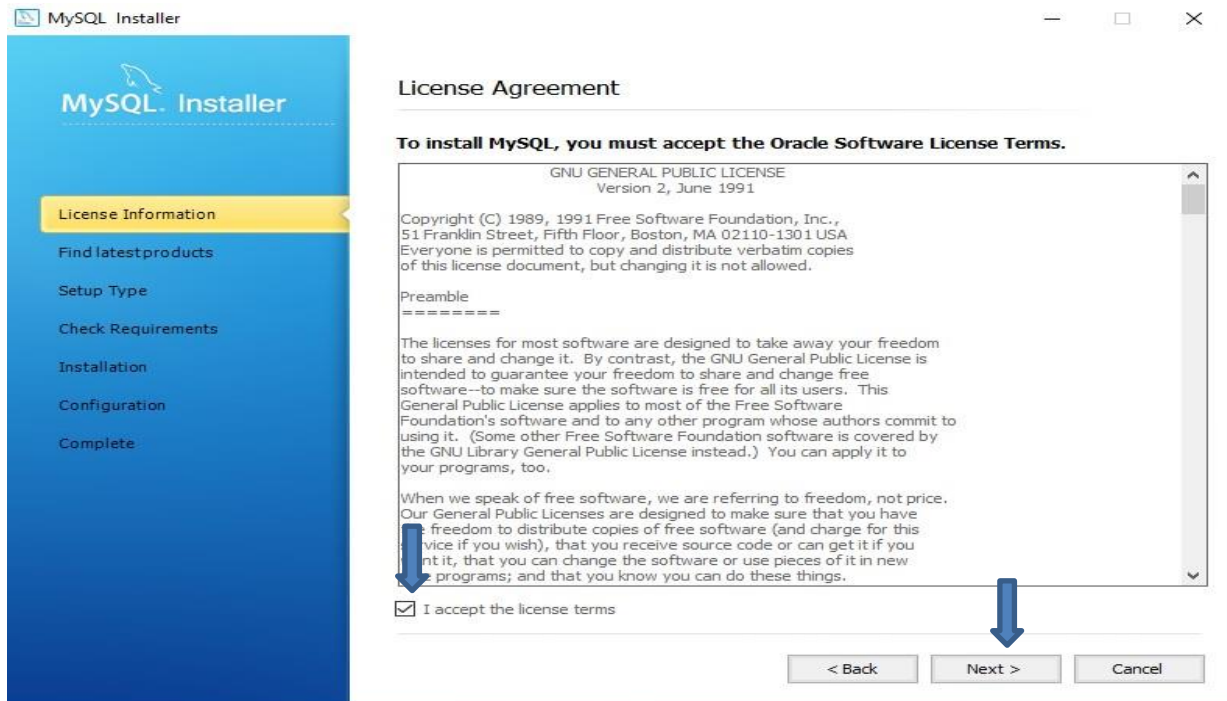
1. Click on the given .msi file or download it from the website.
<https://downloads.mysql.com/archives/installer/>.



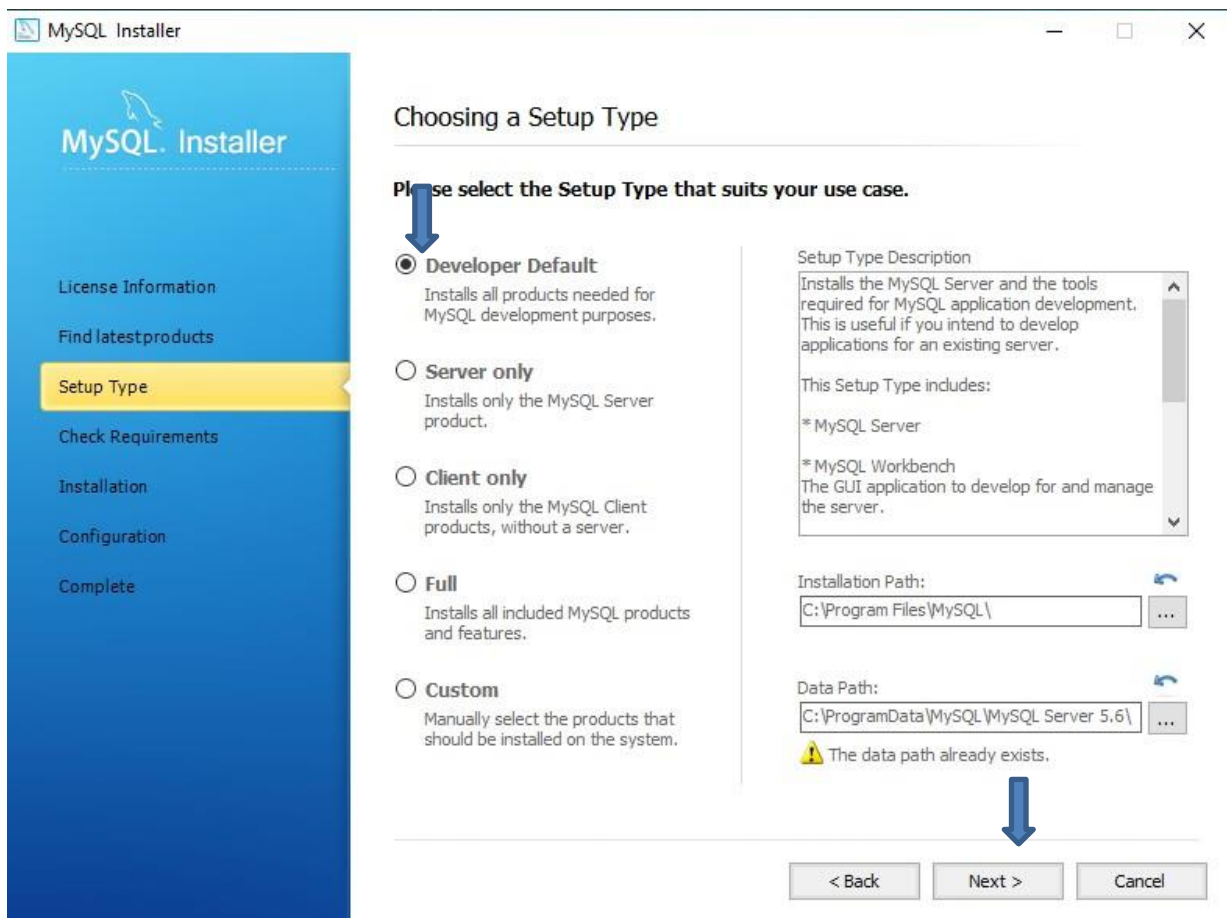
2. Next follow the install instruction procedure.
3. Click on install mysql products.



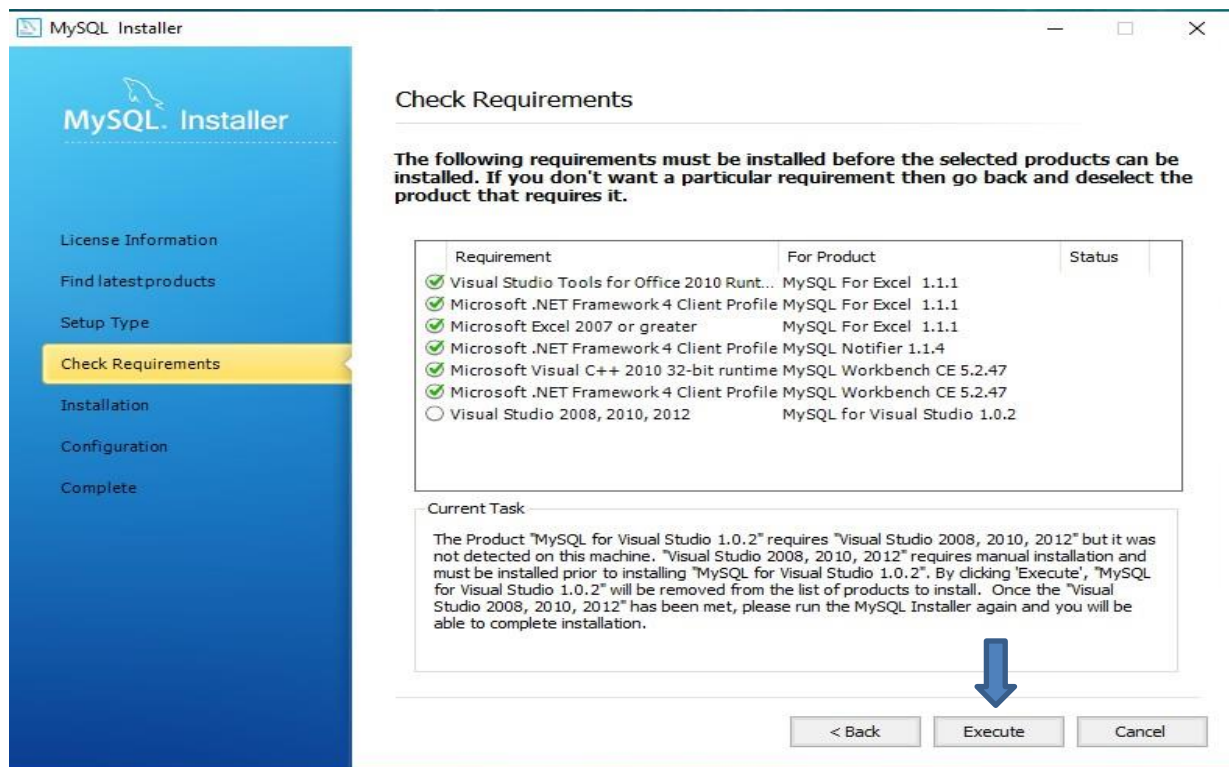
4. Accept the license and click next.



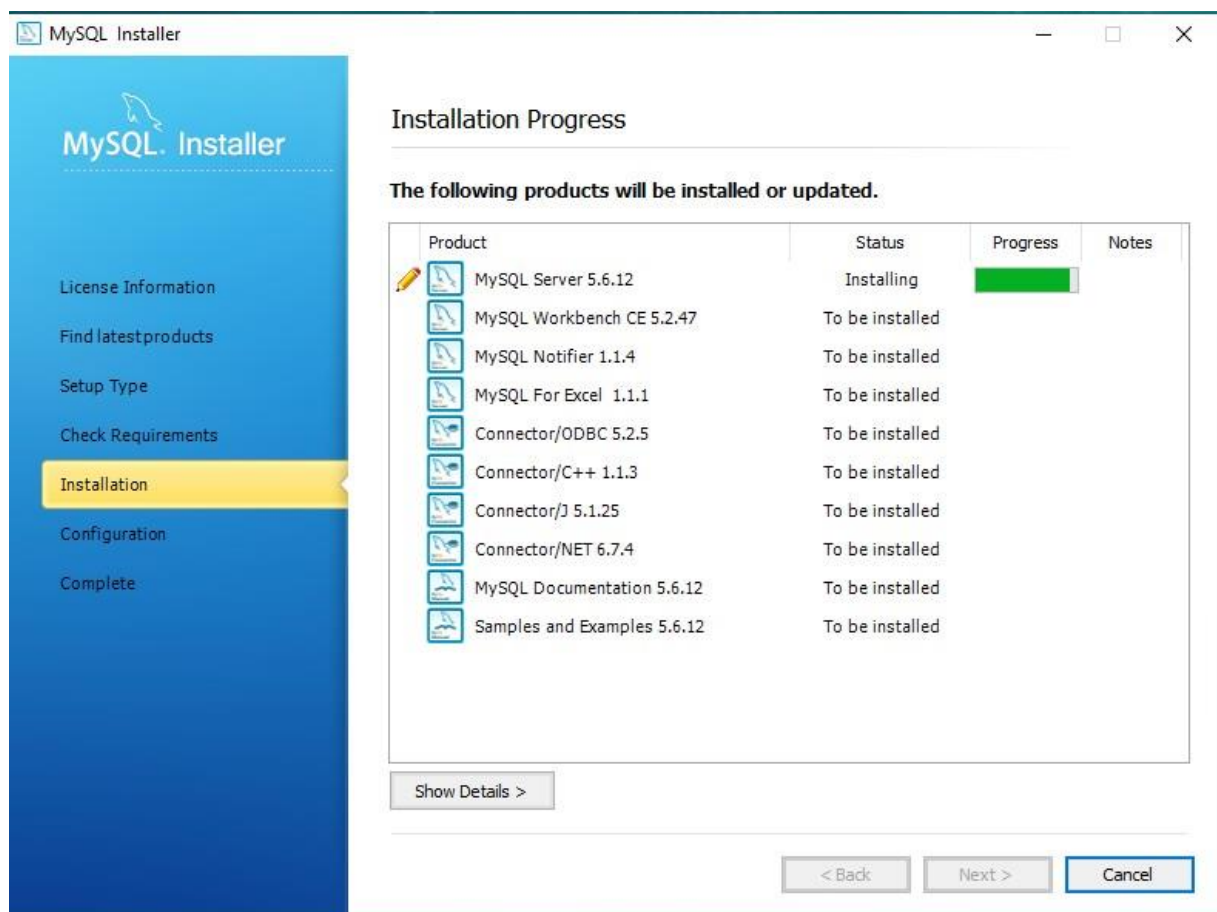
5. Choose developer default and click next.



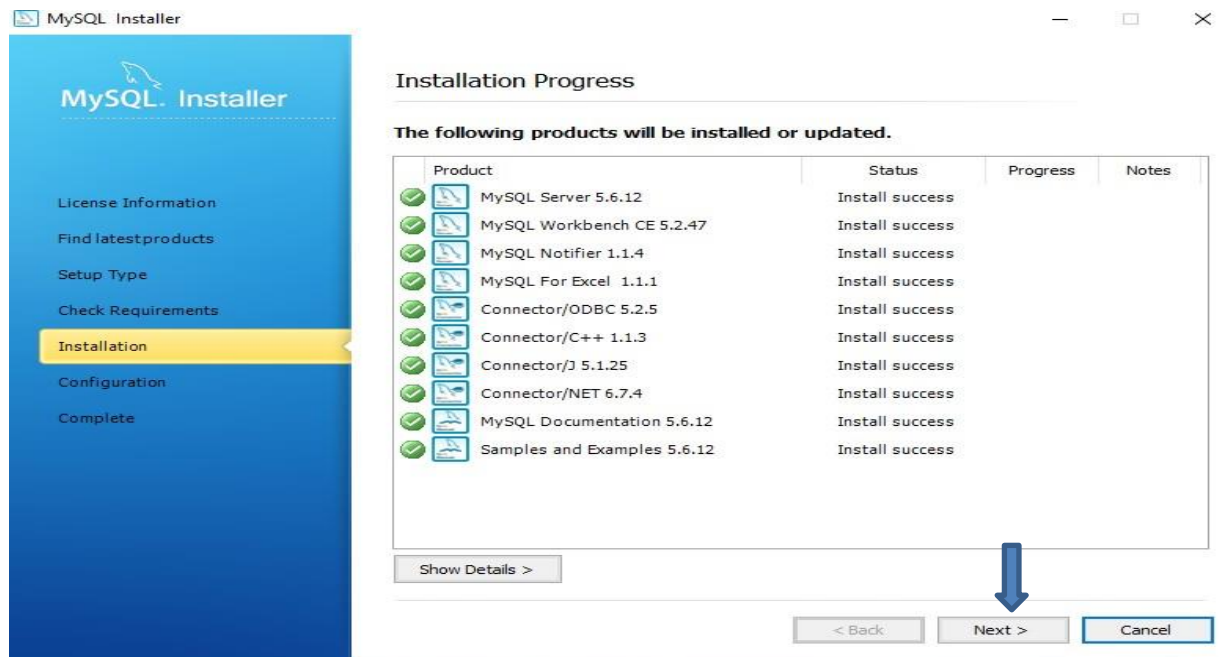
6. Check all the prerequisite and click on execute.



7. Let all the application install.



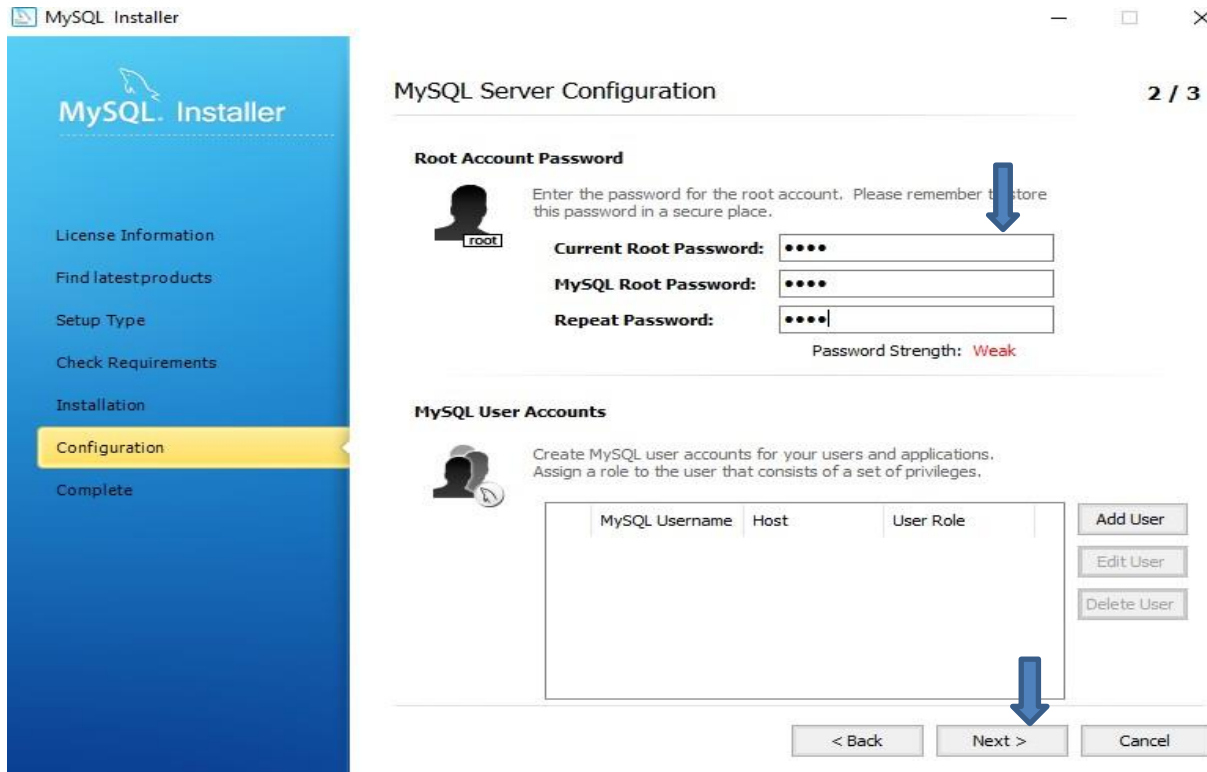
8. Once everything is installed click on next.



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

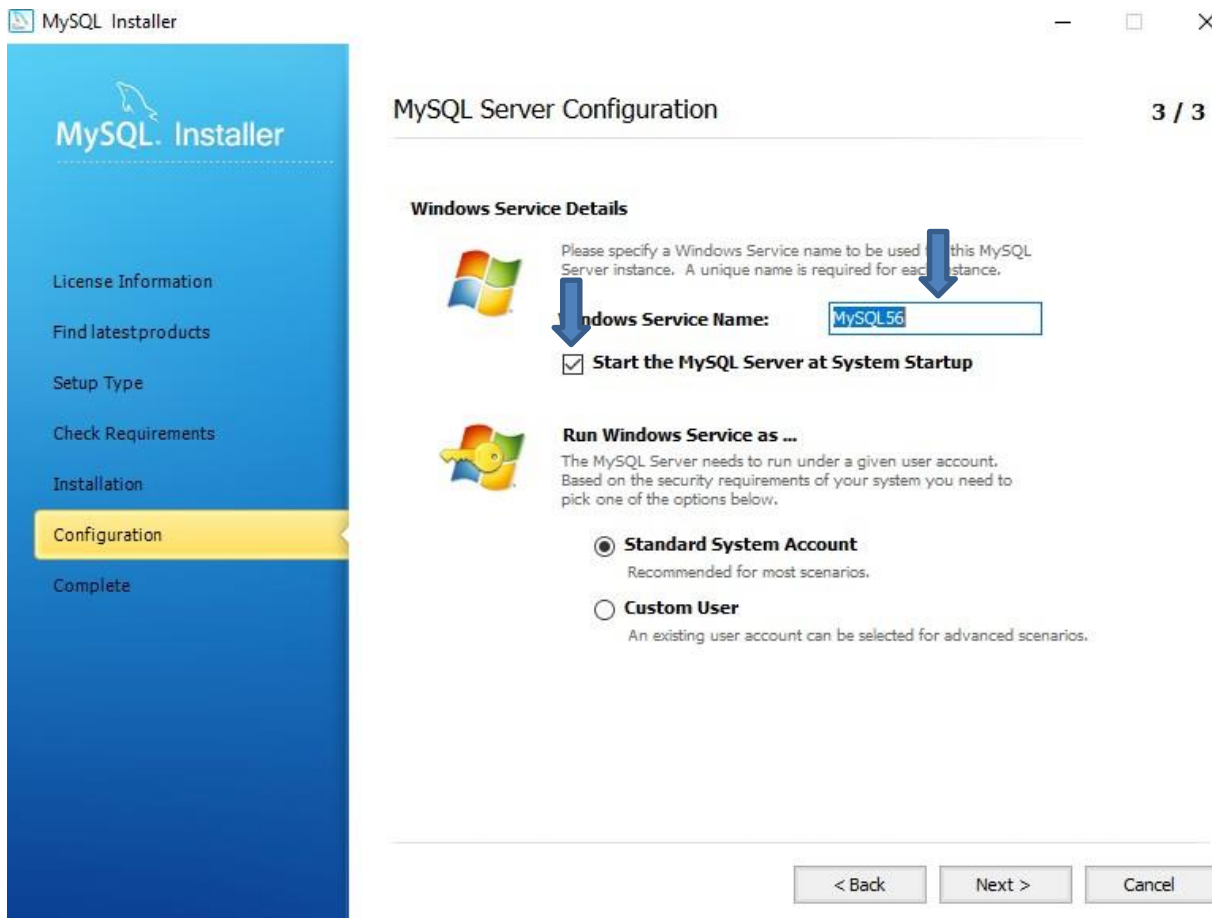


10. Enter password as **root** and click next.



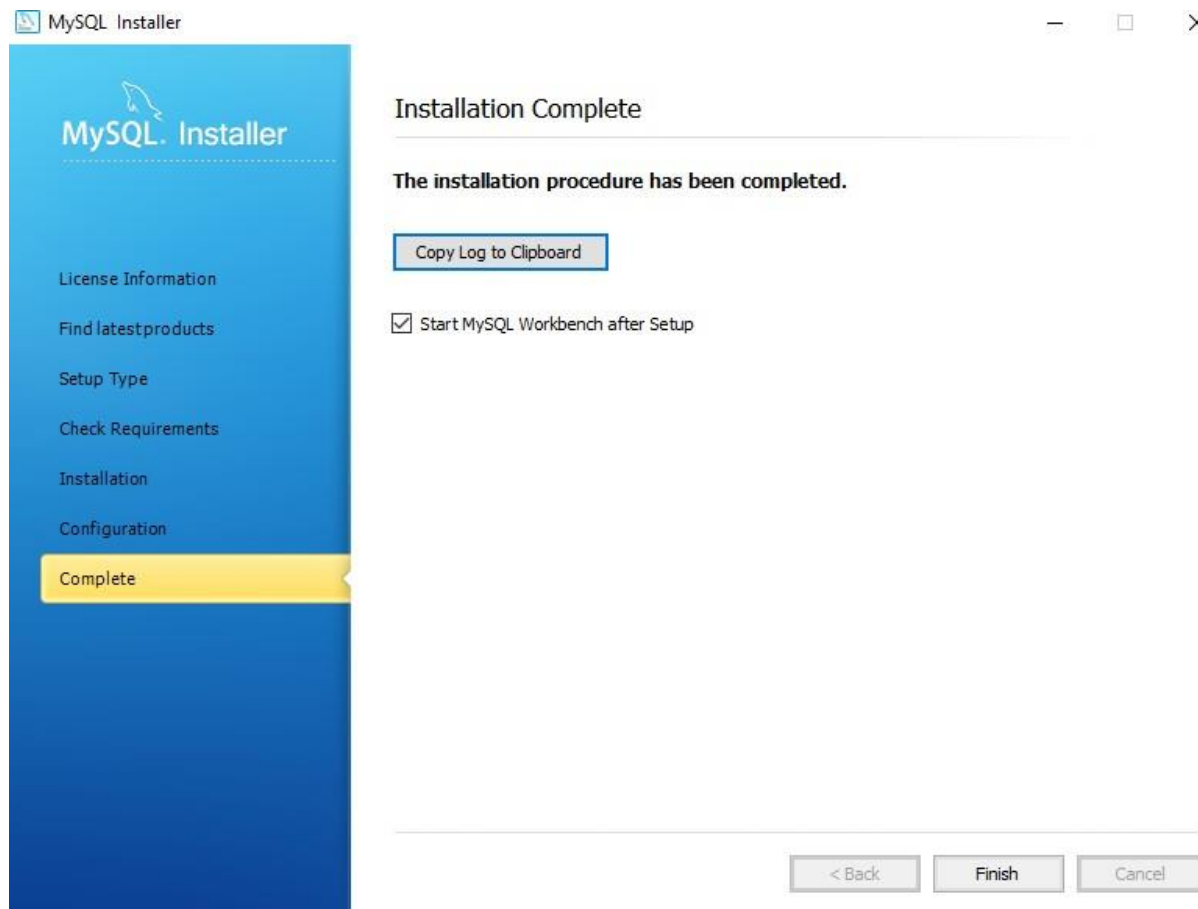
The screenshot shows the MySQL Installer window at the 'MySQL Server Configuration' stage (2 / 3). On the left is a navigation pane with options: License Information, Find latest products, Setup Type, Check Requirements, Installation, Configuration (highlighted), and Complete. The main area is titled 'MySQL Server Configuration' and contains two sections. The first section, 'Root Account Password', has a sub-header 'Root Account Password' and a description: 'Enter the password for the root account. Please remember to store this password in a secure place.' Below this are three password fields: 'Current Root Password:', 'MySQL Root Password:', and 'Repeat Password:'. All three fields contain four dots. A blue arrow points to the 'Current Root Password' field. Below the fields, the 'Password Strength' is indicated as 'Weak'. The second section, 'MySQL User Accounts', has a sub-header 'MySQL User Accounts' and a description: 'Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.' Below this is a table with columns 'MySQL Username', 'Host', and 'User Role'. To the right of the table are three buttons: 'Add User', 'Edit User', and 'Delete User'. A blue arrow points to the 'Next >' button at the bottom right of the window. At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

11. Do not change any default and Click next.

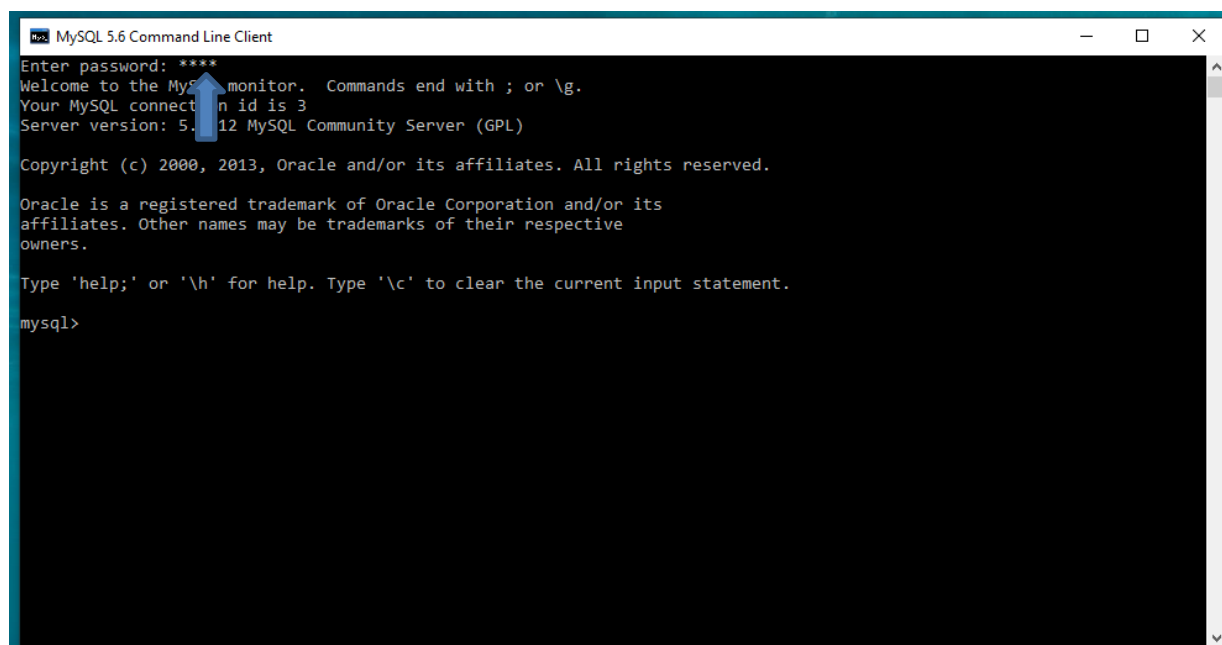


The screenshot shows the MySQL Installer window at the 'Windows Service Details' stage (3 / 3). On the left is a navigation pane with options: License Information, Find latest products, Setup Type, Check Requirements, Installation, Configuration (highlighted), and Complete. The main area is titled 'MySQL Server Configuration' and contains one section, 'Windows Service Details', with a sub-header 'Windows Service Details' and a description: 'Please specify a Windows Service name to be used with this MySQL Server instance. A unique name is required for each instance.' Below this is a text field labeled 'Windows Service Name:' containing the text 'MySQL56'. A blue arrow points to this field. Below the text field is a checkbox labeled 'Start the MySQL Server at System Startup' which is checked. Below this is a section titled 'Run Windows Service as ...' with a description: 'The MySQL Server needs to run under a given user account. Based on the security requirements of your system you need to pick one of the options below.' Below this are two radio button options: 'Standard System Account' (selected) and 'Custom User'. Below the 'Standard System Account' option is the text 'Recommended for most scenarios.' Below the 'Custom User' option is the text 'An existing user account can be selected for advanced scenarios.' At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

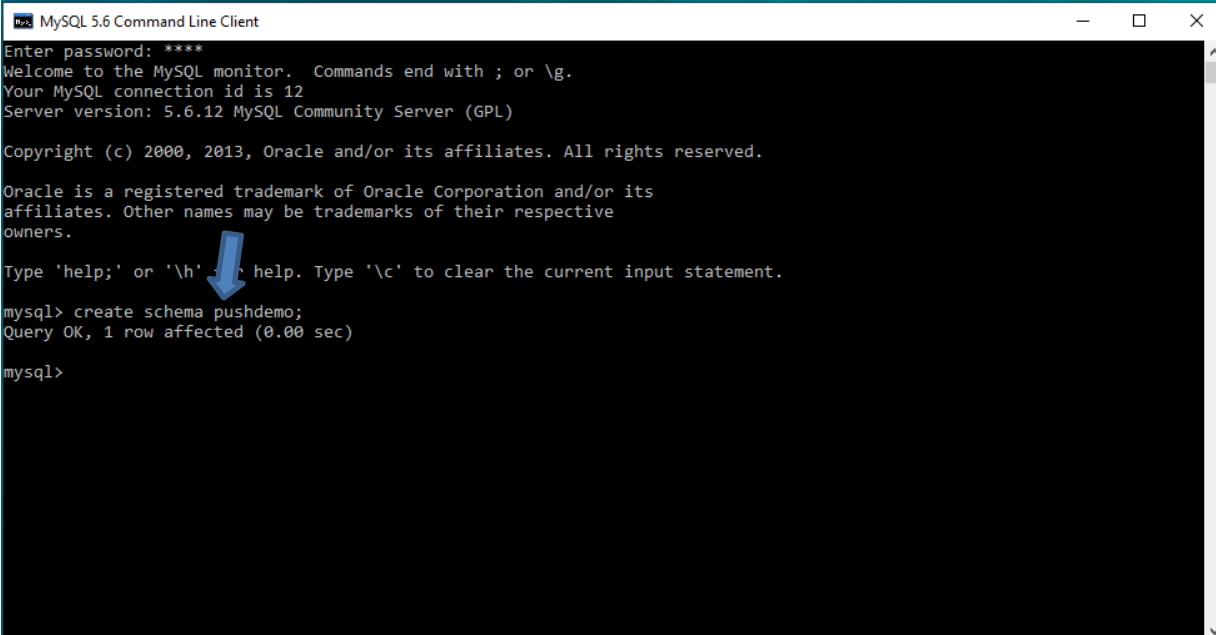
12. Click finish.



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)

Copyright (c) 2000, 2013, Oracle and/or its affiliates. All rights reserved.

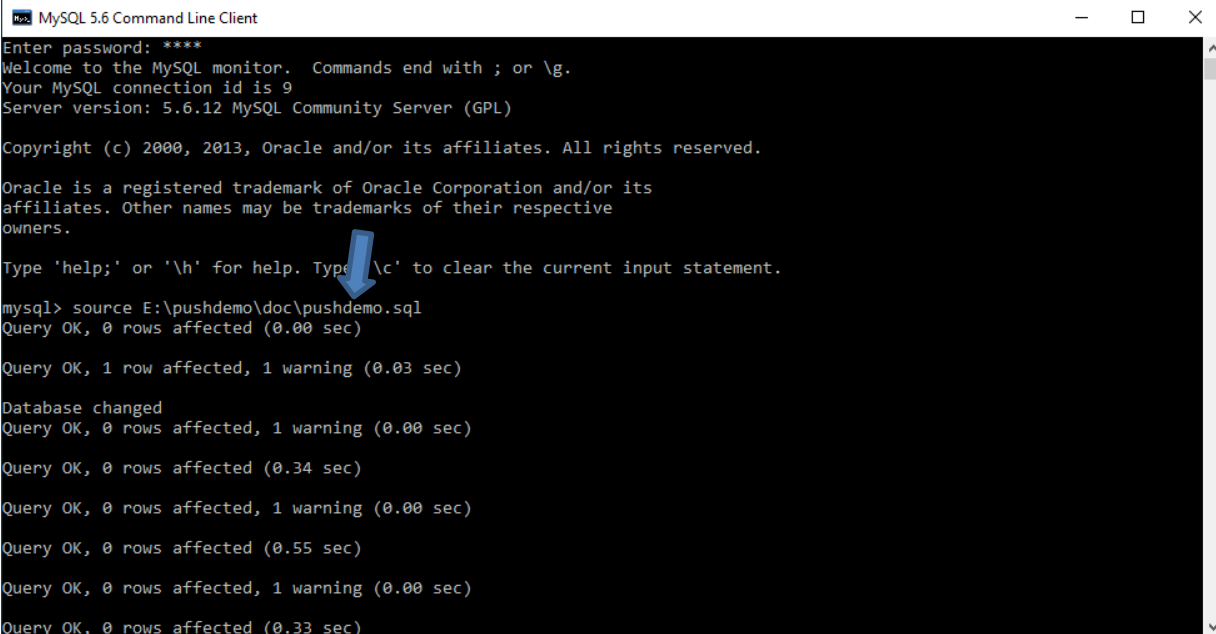
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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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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> 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)

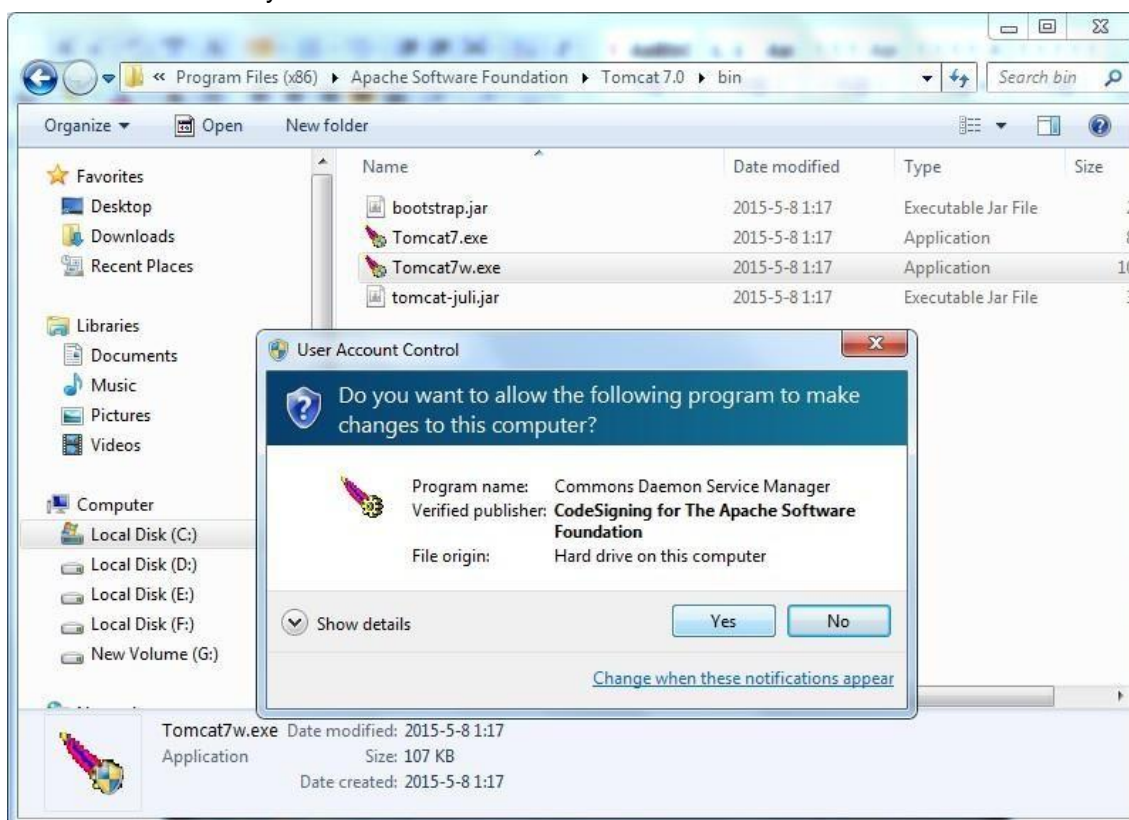
Query OK, 0 rows affected (0.55 sec)

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

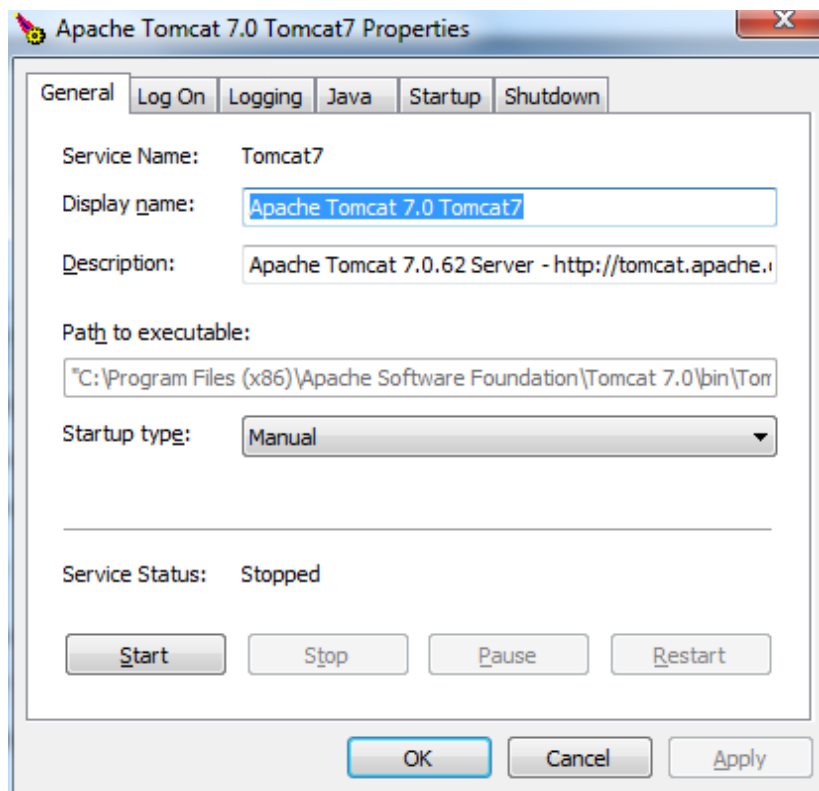
Query OK, 0 rows affected (0.33 sec)
```

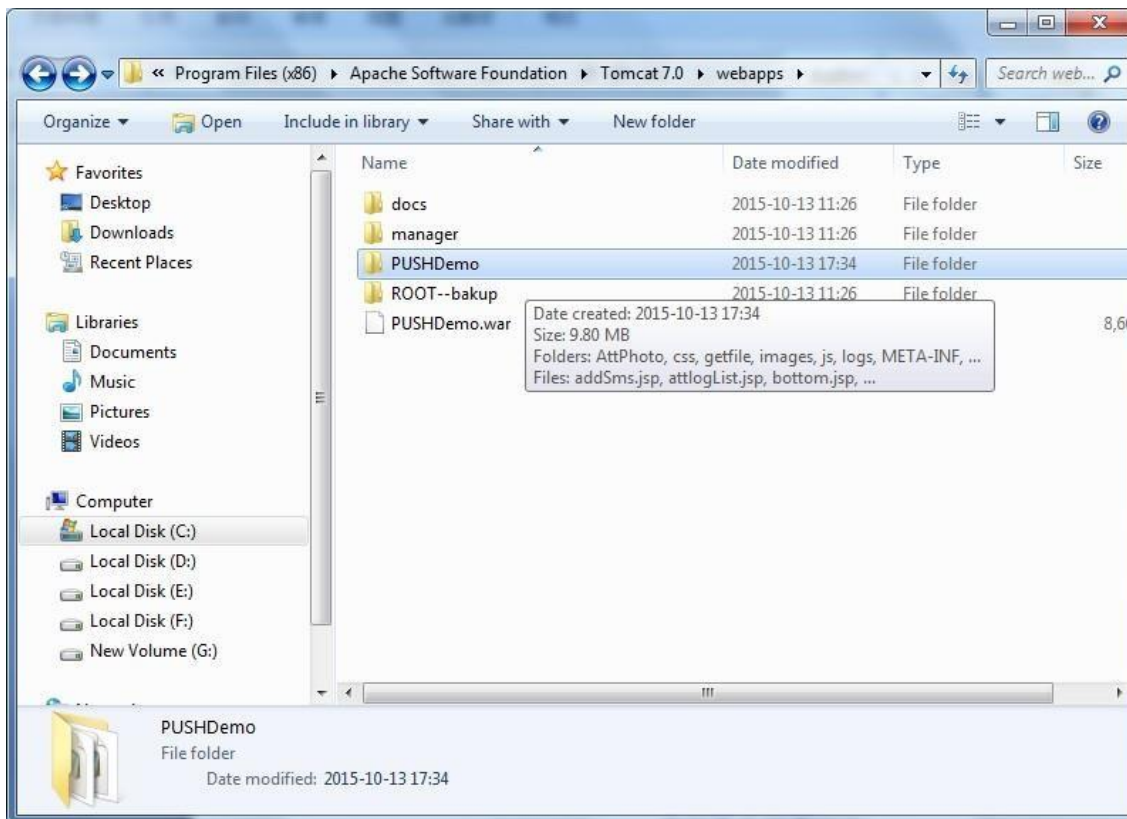
1 Program Deployment

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



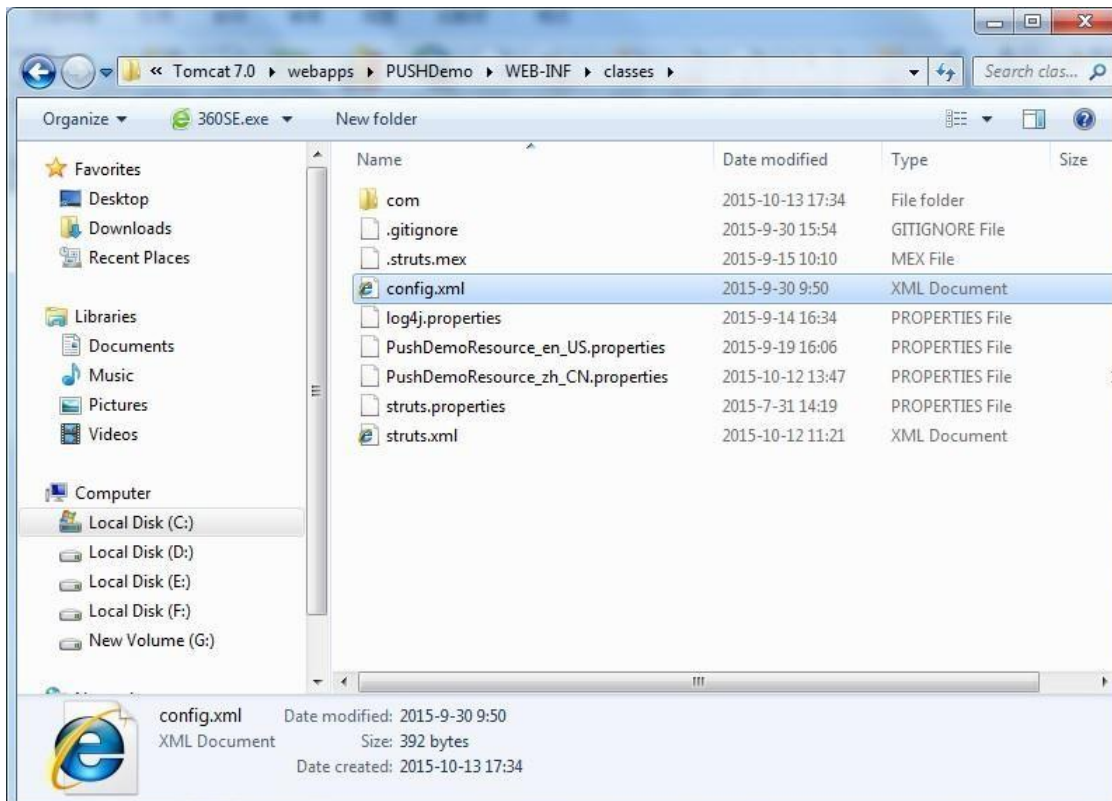
- ✓ Click **Start** to run **PUSHDemo.war** and automatically decompress the **PUSHDemo** directory.



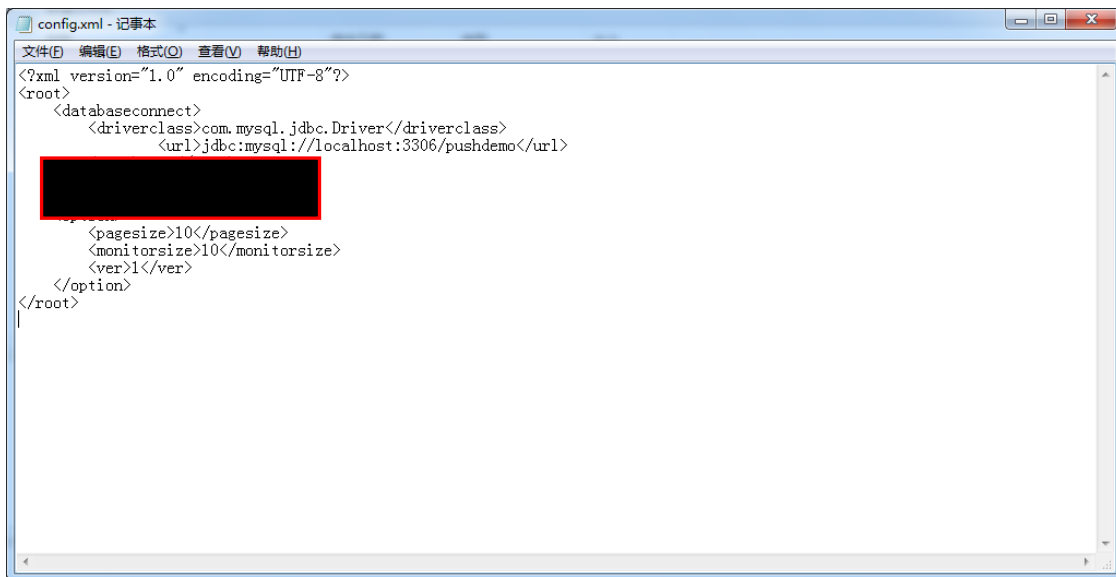


2. Modify MySQL connection parameters.

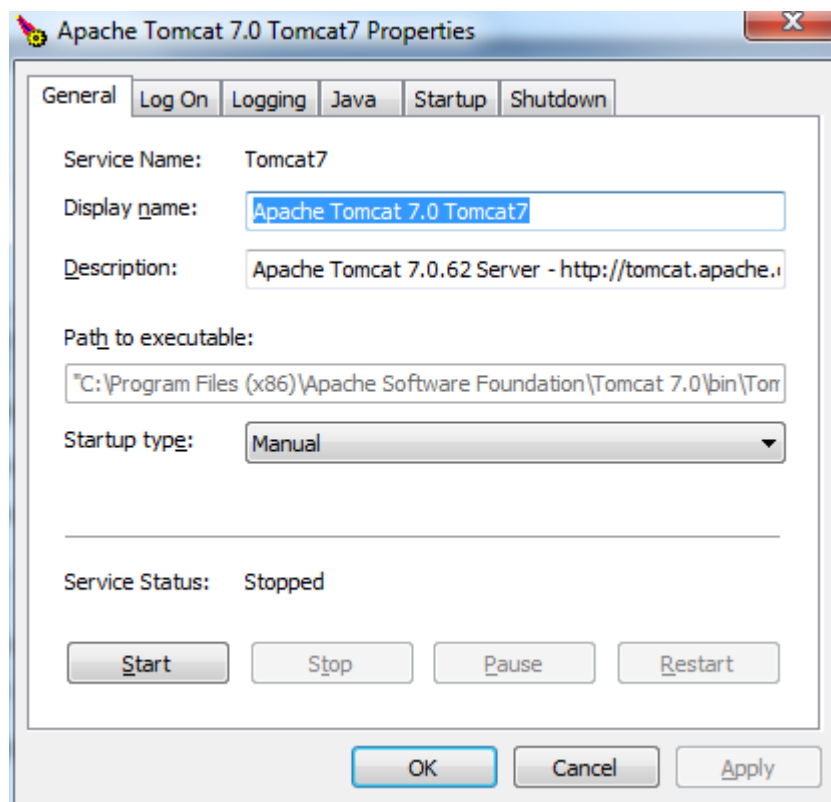
- ✓ Access the directory **ROOT\WEB-INF\classes** to edit the file **config.xml**.



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



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.

