|  |  |
| --- | --- |
|  | **VIỆN ĐÀO TẠO QUỐC TẾ FPT**  **LẬP TRÌNH VIÊN QUỐC TẾ** **FPT - APTECH** |

**TechLine**

**Installation Guide**

**Faculty: Phan Minh Tam**

**Batch No: F2-13-1604-T0**

**Group No: 5**

**Students:**

|  |  |  |
| --- | --- | --- |
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| **3** | **Cung Đình Uy** | **GC60506** |
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**Getting started**

All procedures, which are described in this file, are based on Microsoft® Windows® XP,

WIN7, VISTA, WIN10. Modify the steps if you are using a different version of

Windows.

**System Requirements:**

The tables below list requirements for different installation options of **TechLine**

The Notes that identified here apply to both tables

**1. System Requirements for Installing TechLine shop**

**1.1 Hardware:**

**1.1.1 Web Server**

|  |  |
| --- | --- |
| Processor | Core 2 Duo or higher |
| Memory | 1GB RAM or higher |
| Modem/ADSL | Connecting to internet 24/24 |

**1.1.2 Client**

|  |  |
| --- | --- |
| Processor | Core 2 Duo or higher. |
| Memory | 2 GB RAM or higher. |
| Monitor | Super VGA (1366x768) or higher resolution with 256 colors. |
| Pointing Device | Microsoft Mouse, Microsoft IntelliMouse®, or compatiblepointing device . |
| Modem/ADSL | Connecting to internet |

**1.2 Software**

**1.2.1 Web Server**

|  |  |
| --- | --- |
| Operation System | Windows 7 or higher. |
| Browser | Internet Explorer 8.1 or higher. |
| Database | Microsoft SQL Server 2012 |
| Software | Java SDK 1.7 |
|  | GlashFish Services 4.0 |
|  | SQL JDBC 4 |

**1.2.2 Client**

|  |  |
| --- | --- |
| Operation System | Windows 7 or higher. |
| Browser | Internet Explorer 8.1 or higher. |

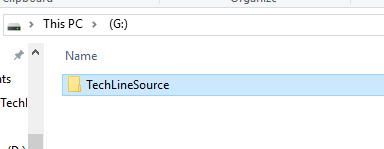
**1.3. Network Connection**

- You must connect your computer to internet before deploy application on server.

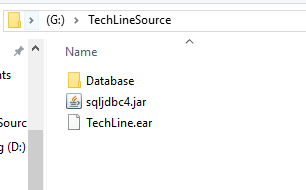
**2. Get Source**

**2.1 Copy Source from USB**

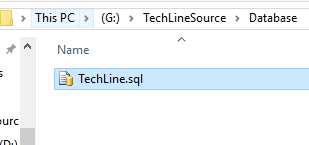
- Copy folder TechLineSource from USB



Check on TechLineSource folder, there are 1 folder and 2 files with extensions: jar and ear:



In folder **Database,** there is one files with extensions sql:

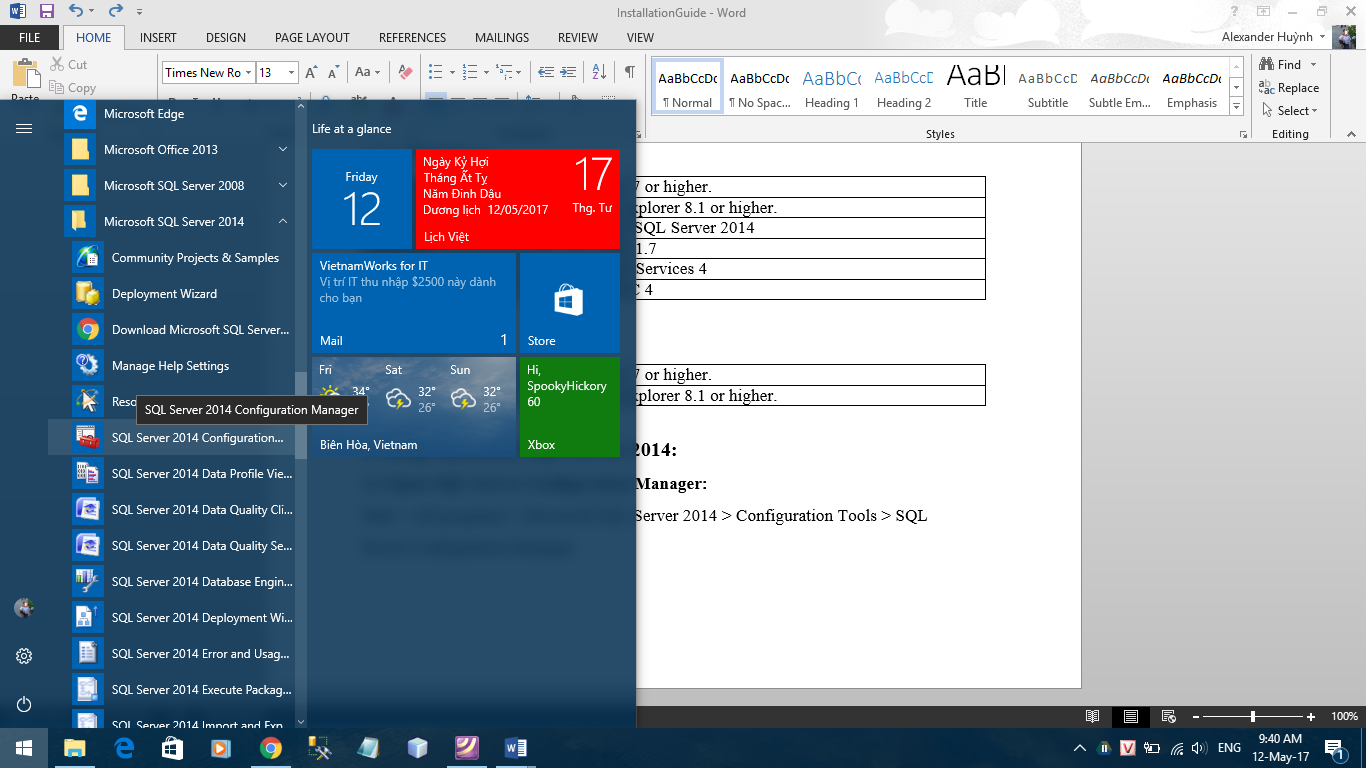


**3. Setup Microsoft SQL Server 2012:**

**3.1 Open SQL Server Configuration Manager:**

Start > All programs > Microsoft SQL Server 2012> Configuration Tools > SQL

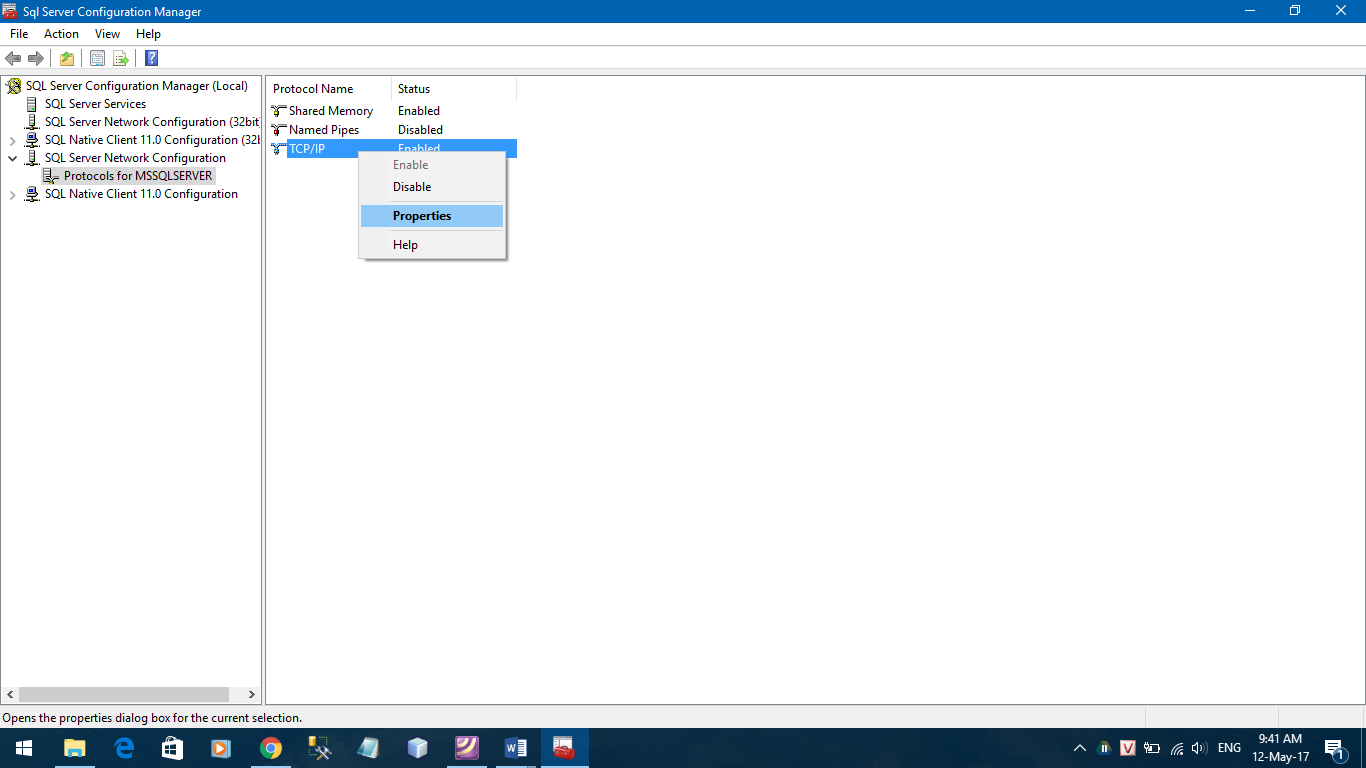
Server Configuration Manager.



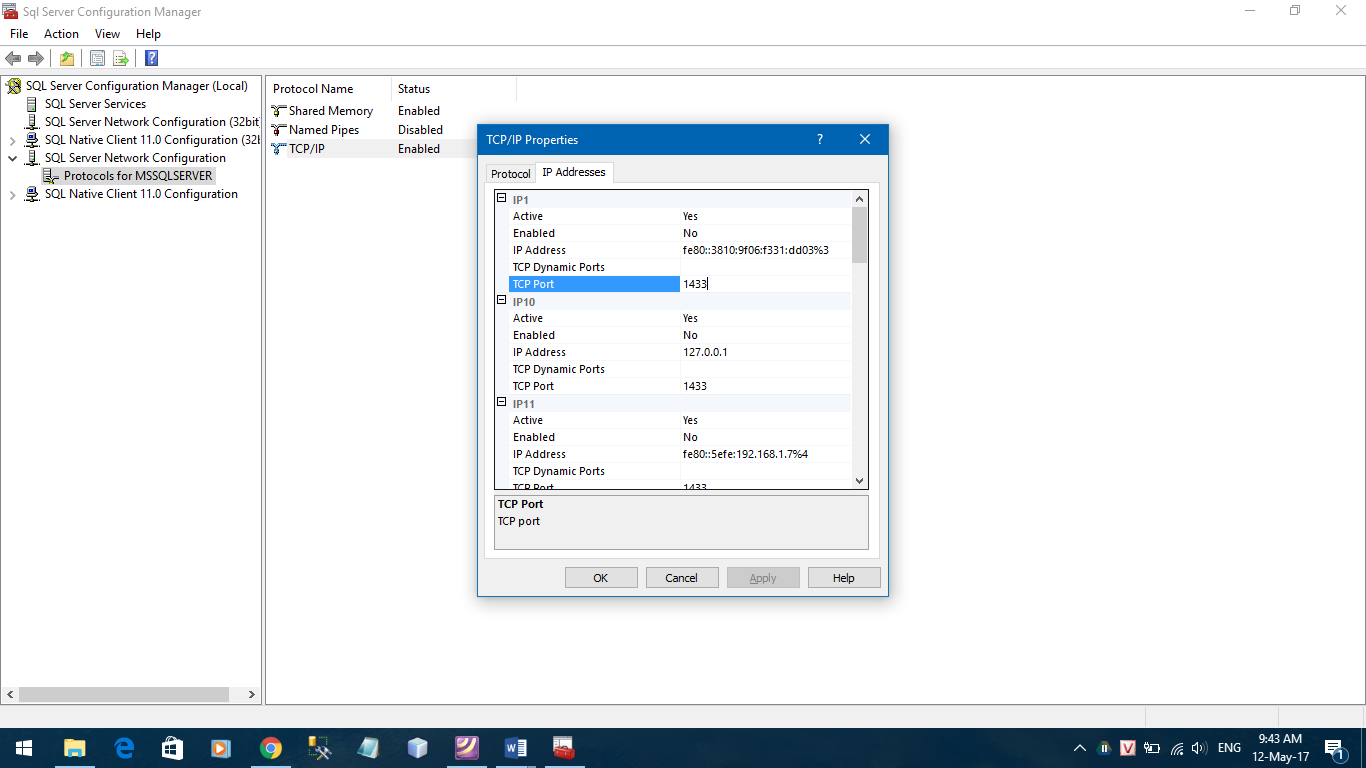
**3.2 Configure TCP/IP:**

**Step 1: Set TCP/IP:**

Right Click TCP/IP > Properties (in Protocols for MSSQLSERVER)



Select **IP Addresses** tab



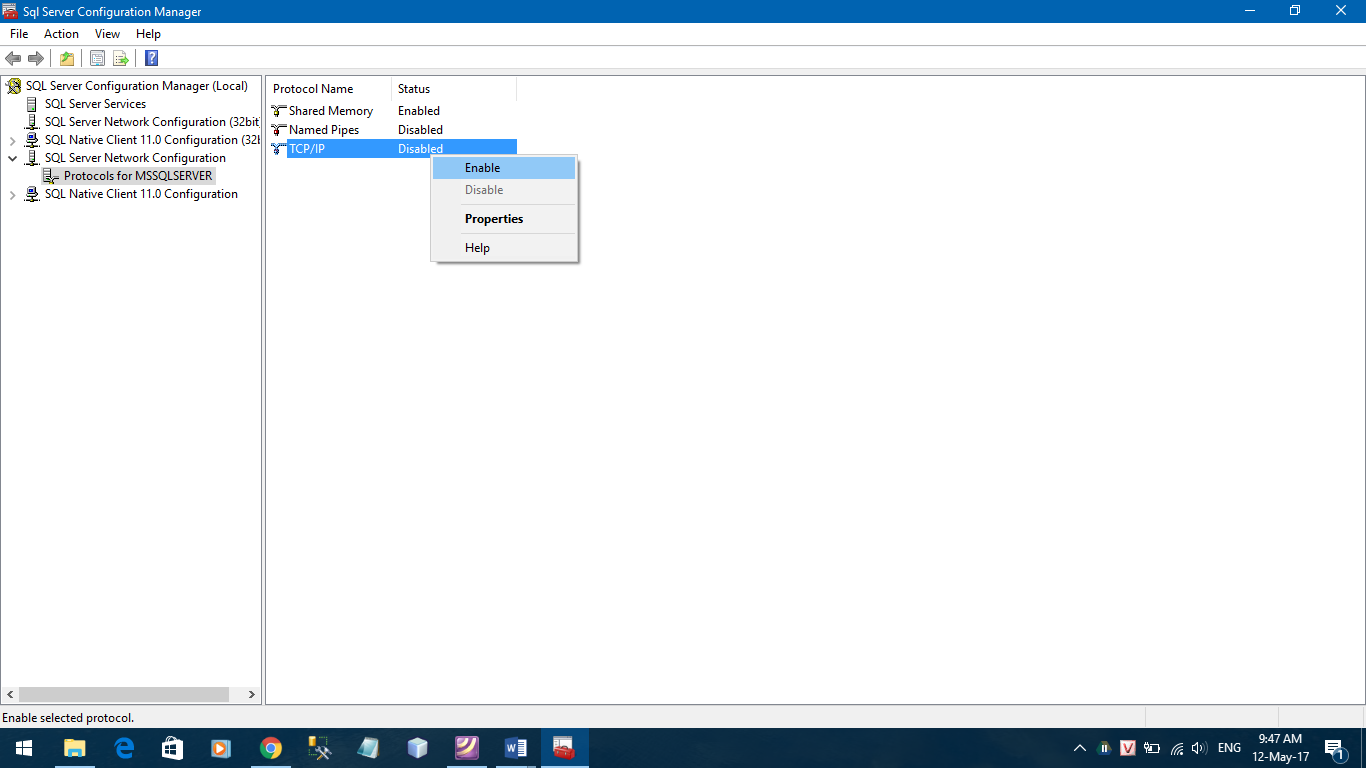
On IP1, set value for **TCP Port**:

**TCP Port:** 1433

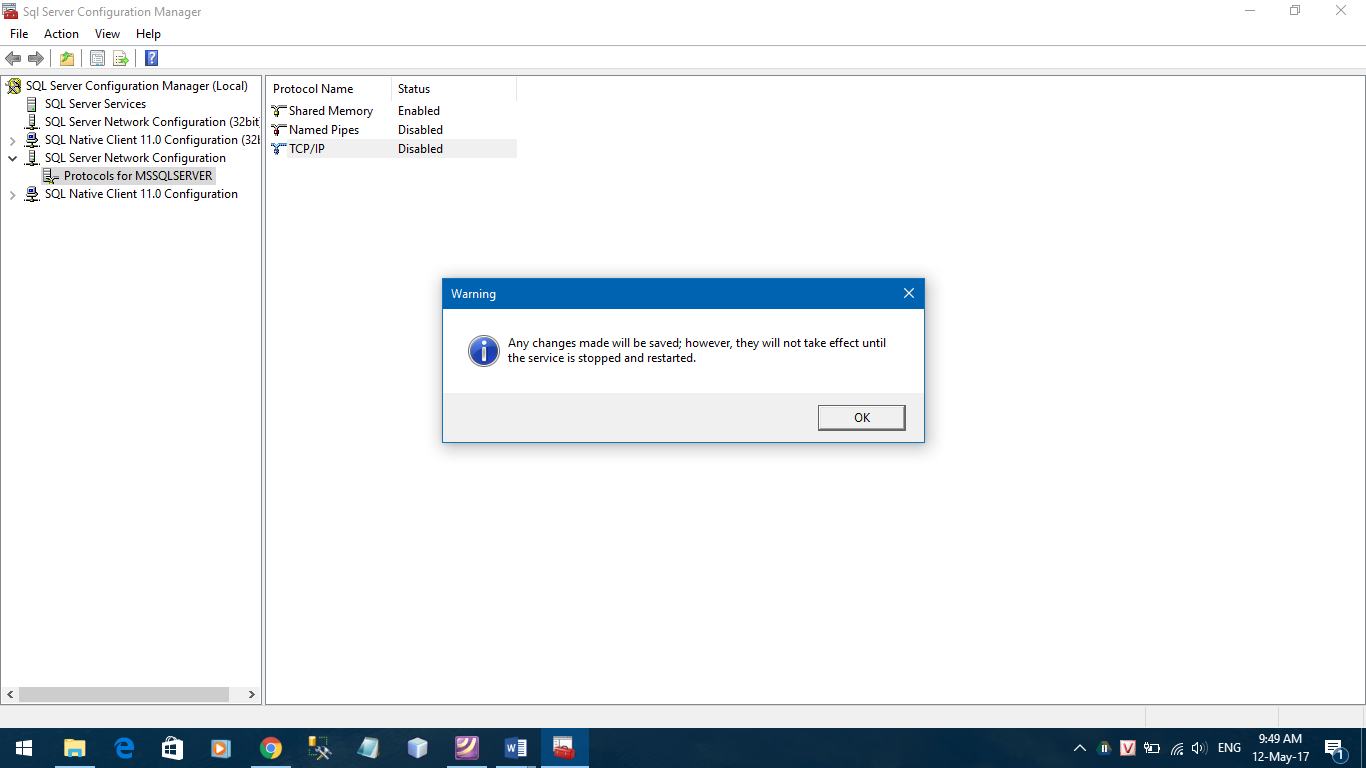
Click **OK** button

**Step 2: Enable TCP/IP:**

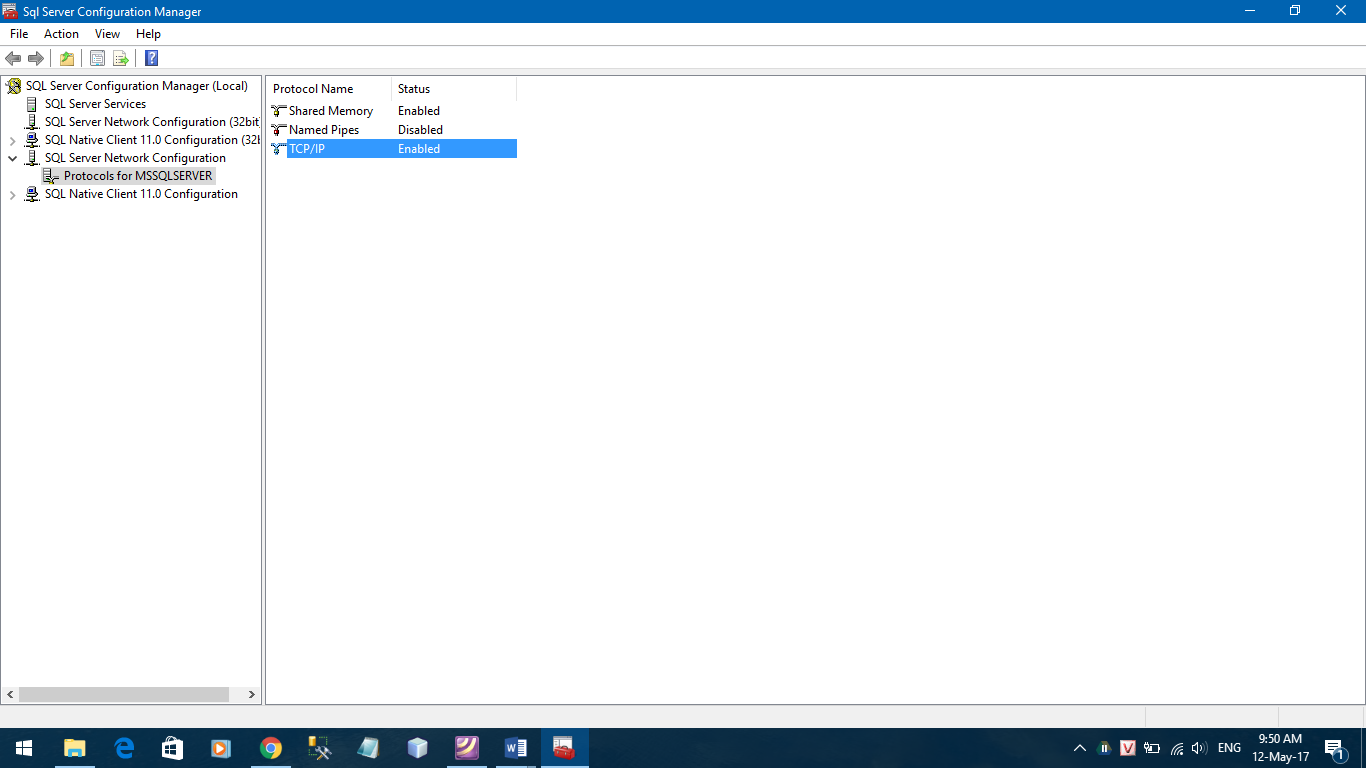
Right Click TCP/IP > Enable



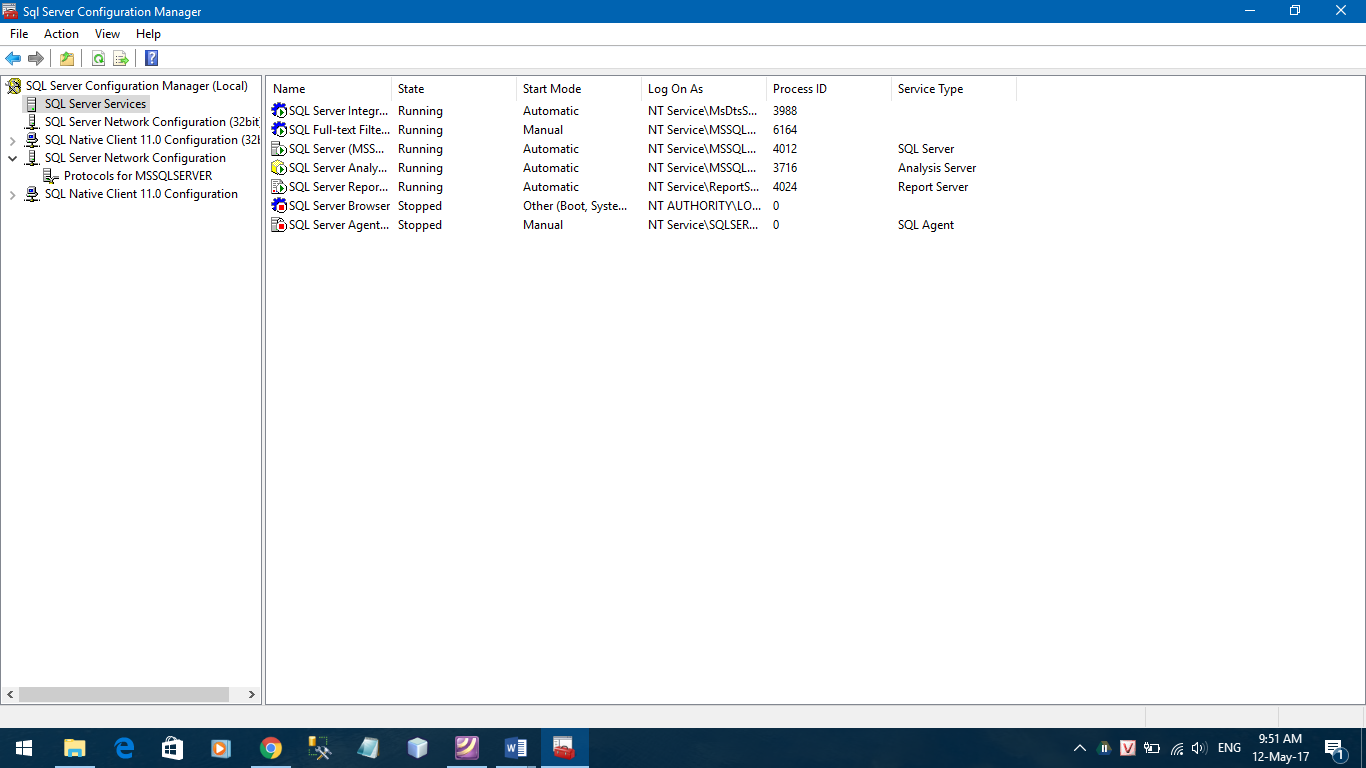
Select **OK**



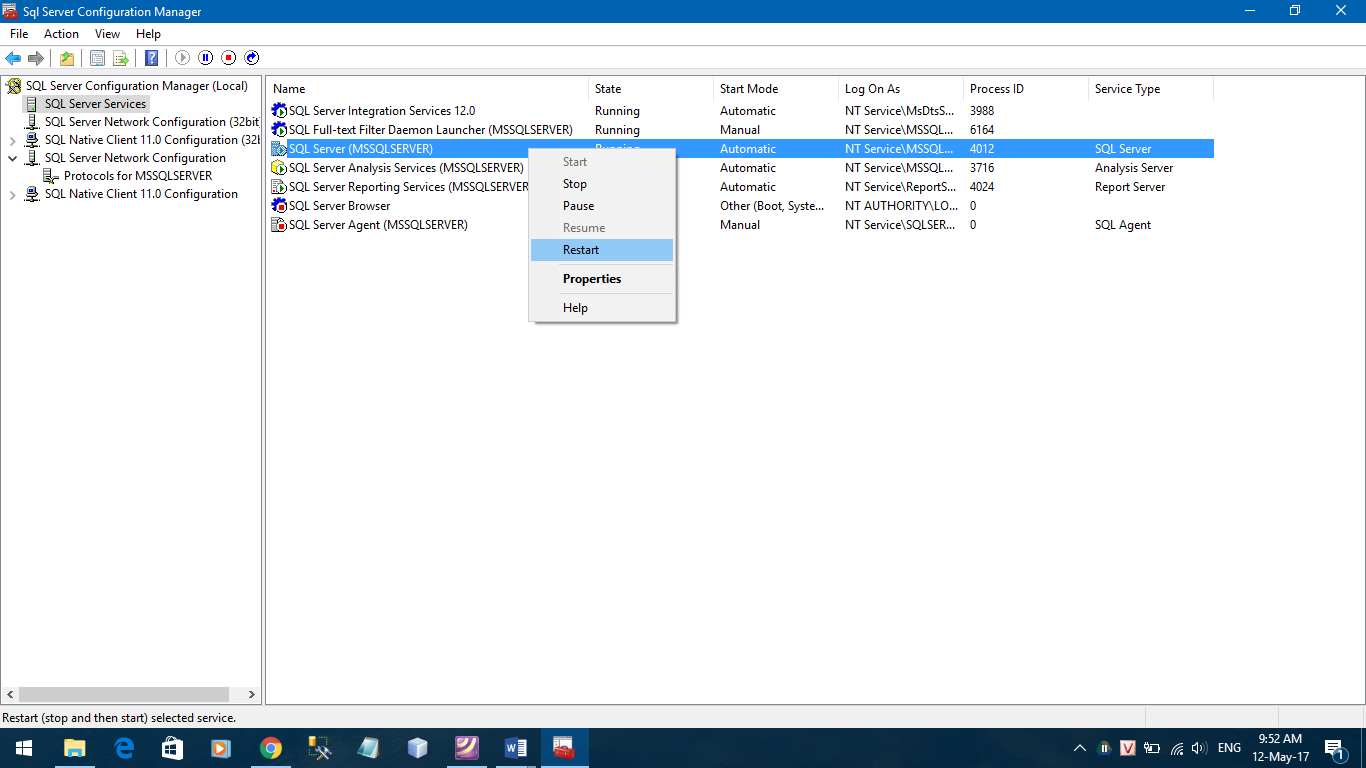
**Result:** TCP/IP is **Enabled**



**Step 3: Restart SQL Server 2012 to apply change:**



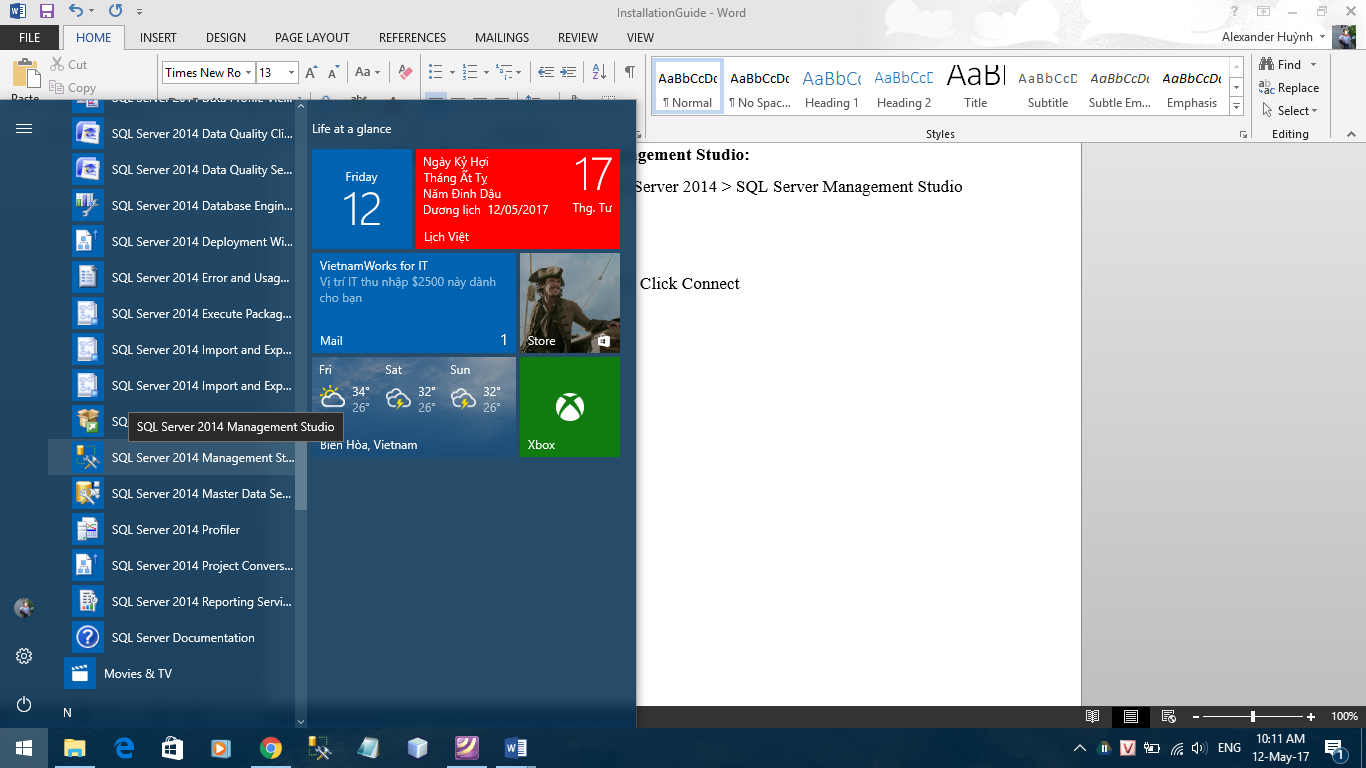
Select SQL Server Services -> Right click SQL Server (MSSQLSERVER) -> Restart



**3. Setup TechLine Database:**

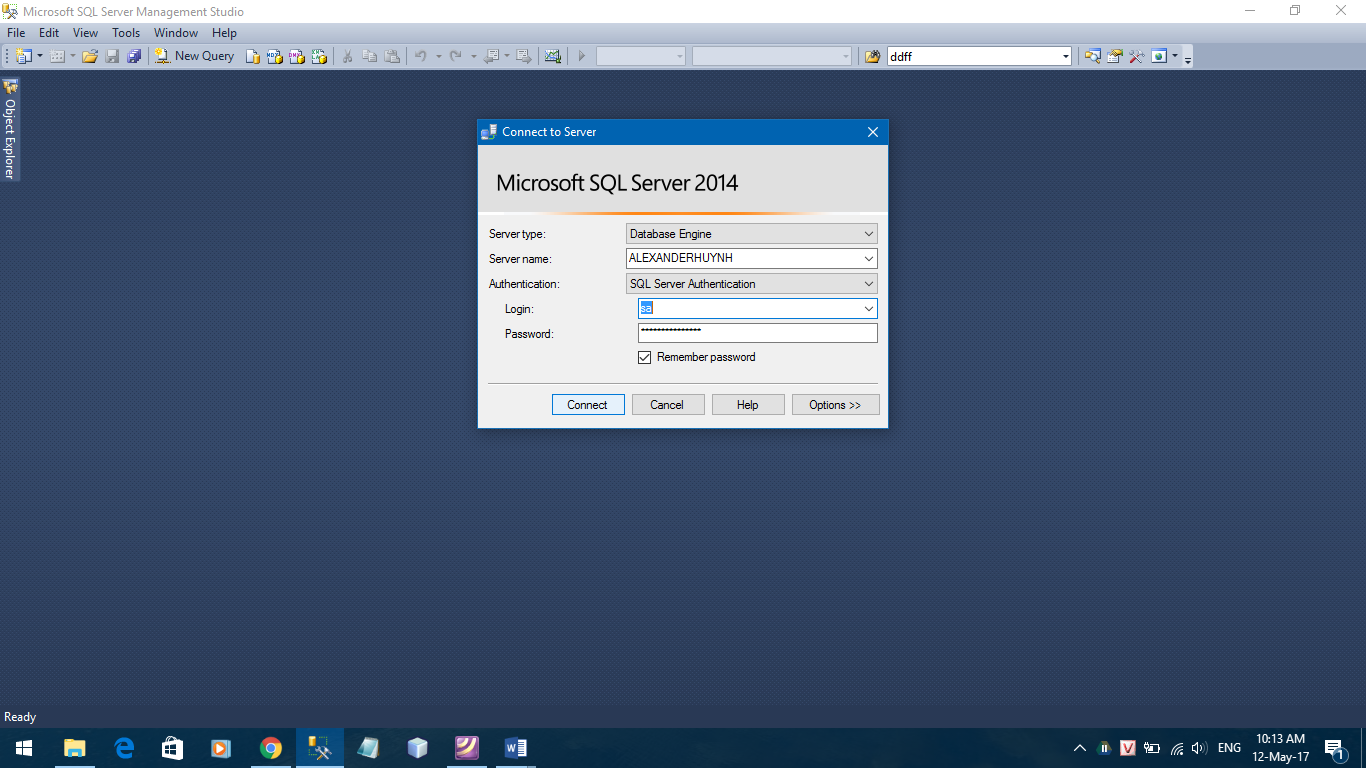
**3.1 Open MS SQL Server 2014 Management Studio:**

Start > All programs > Microsoft SQL Server 2014 > SQL Server Management Studio



* When Login window appear, you input your Login and password.
* Remember to login as user “sa”.
* And password: 123

> Then click Connect

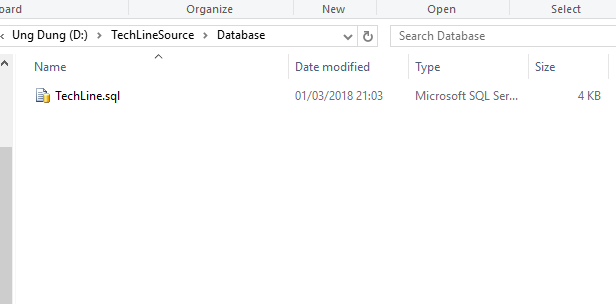


**3.2 Setup database:**

- Open **TechLine.sql** fromfolder **Database:**

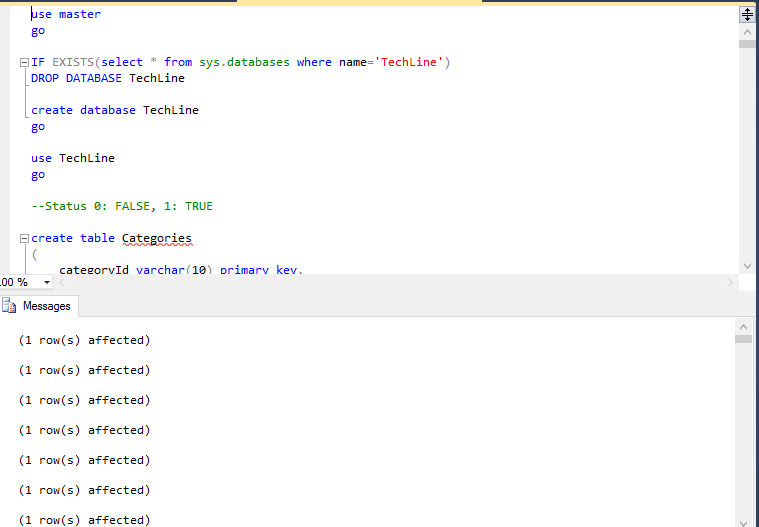
First, in menu File > Open > Files…

You must select **TechLine.sql** file in folder **Database**, click Open.



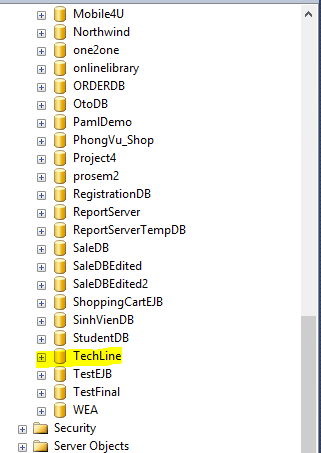
Then move your pointer to first line (use master ) of file **TechLine.sql** file.

Then click Execute button on toolbar or Press F5 on keyboard.



Right Click Databases > Refresh

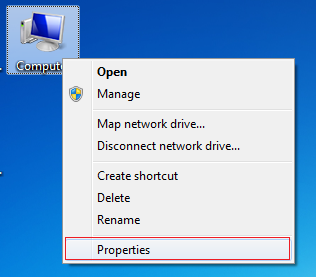
Result: Appear the TechLine database in Databases folder



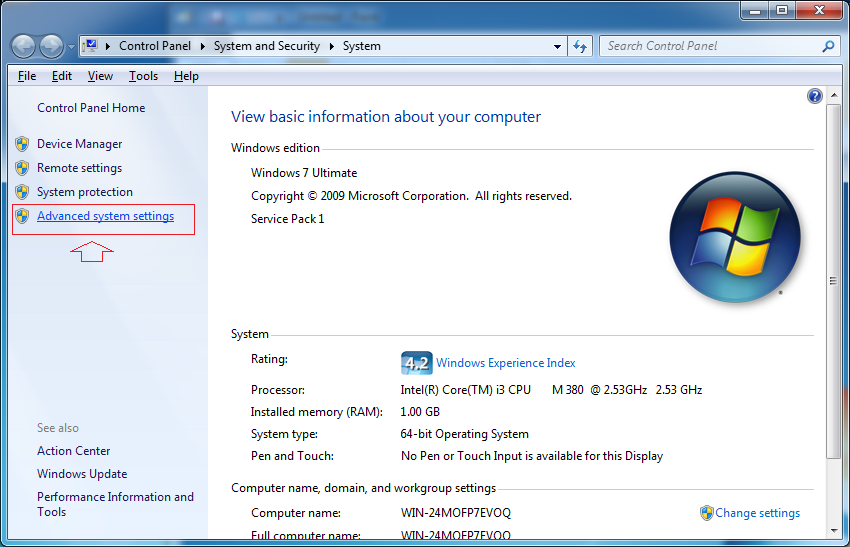
Create database successfully

**4. Config JDK**

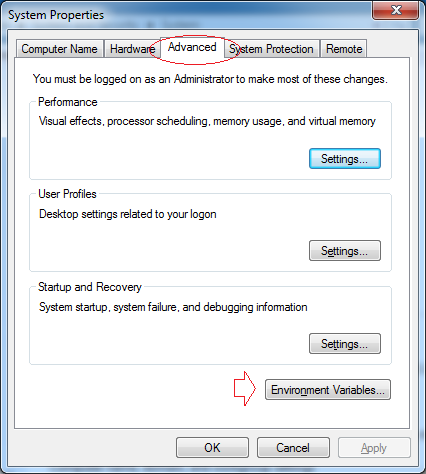
In Desktop, Right Click to Computer, choose Properties.



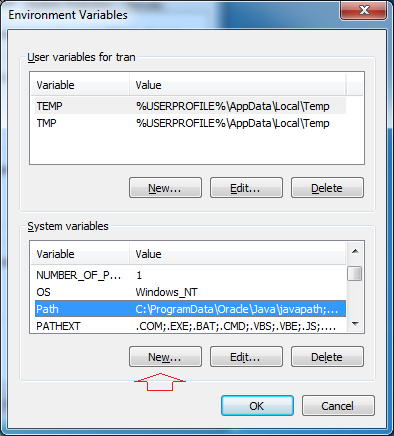
Choose Advanced system settings



In tab Advanced chose Environment Variables

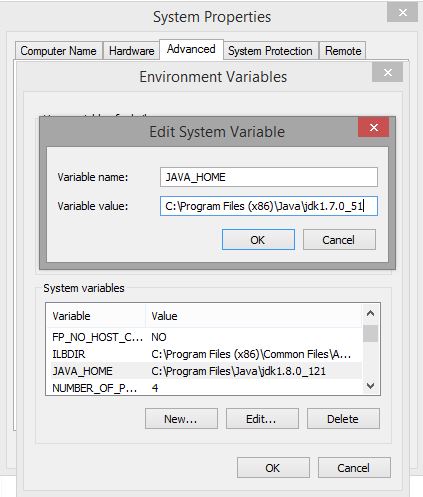


Click **New**

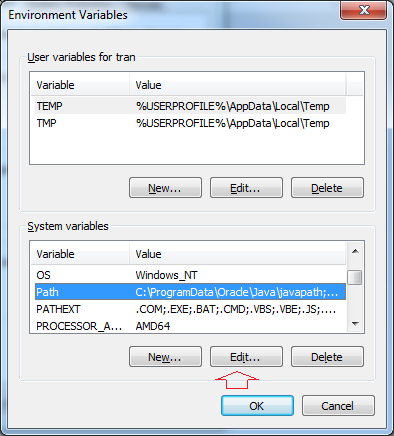


Input path folder you save JDK in your computer

* **Variable name:** JAVA\_HOME
* **Variable value:** Example: C:\Program Files (x86)\Java\jdk1.7.0\_51 (Jdk depends on machine)

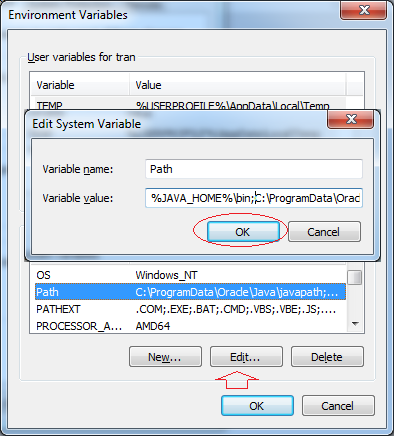


Next step choose Edit in Path Variables

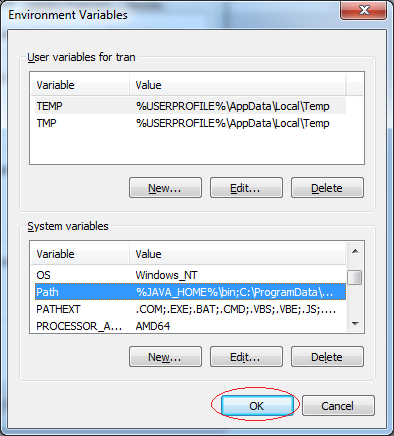


Add to the front of the value of the environment variable **Path** like picture:

* **%JAVA\_HOME%\bin;**

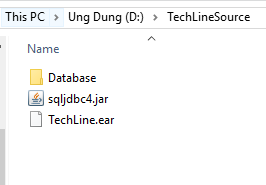


Click **OK** to finish config JDK



**5. Setup Glassfish:**

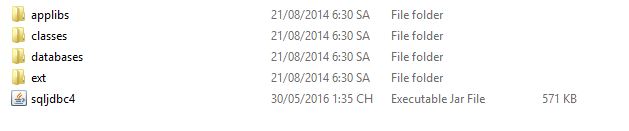
**- Copy file drivers: sqljdbc4.jar from TechLineSource.**



And put **sqljdbc4.jar** in folder ext of folder **glassfish** as follows:

(Note: Replace the path in the command line below into a path to the **glassfish** directory on the corresponding machine.)****

**Result:**

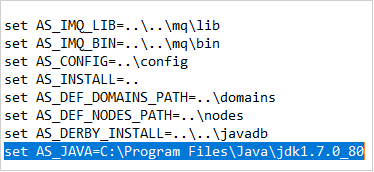
****

**- Open the file: "asenv.bat" (in notepad) in the directory:**

****

**-** Pull down the end, and add the following command:

(Note: Replace the path in the command line below into a path to the **JDK** directory on the corresponding machine.)

****

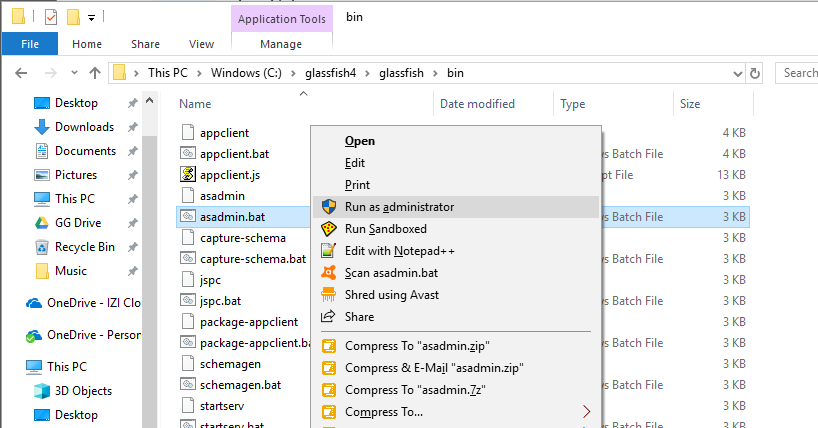
1. **Run Application:**

**Step1: Start glassfish 4:**

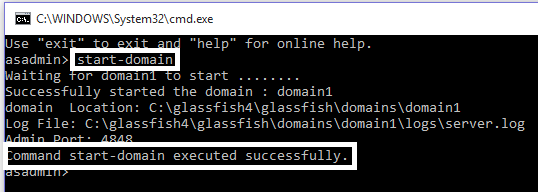
1. Go to file **asadmin.bat** follow the path:

“C:\Program Files\glassfish4\glassfish\bin\asadmin.bat”.

1. Then right click on asadmin.bat and choose **Run as Administrator** or double click.

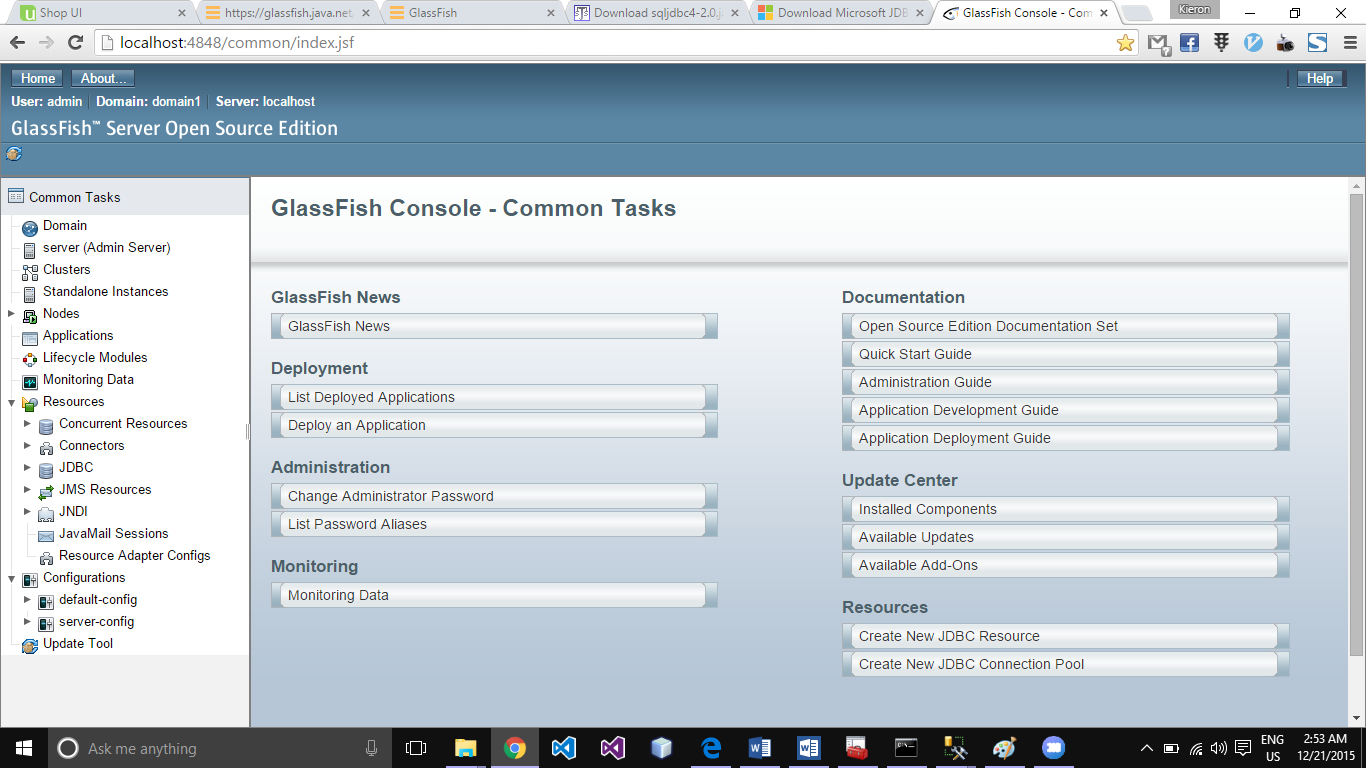


In command prompt window, typing the command line: **start-domain** to start glassfish:

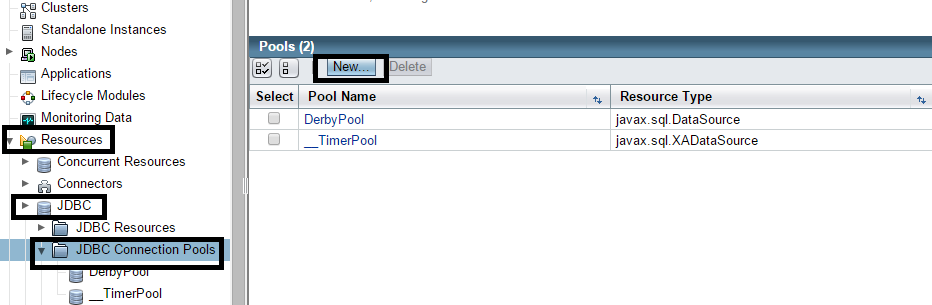


If the server starts successful, “Command start-domain executed successfully” wills be appeared.

NOTE: the server wills run as window services. To able to stop server, Run as Administrator on file **asadmin.bat** again as step above and execute command **stop-domain.**

1. **Step 2: Configuration server for project:**
2. **Setting up connection pool:**
   * **Open the browser and type the address:** [**http://localhost:4848/**](http://localhost:4848/)
   * **Login as user admin for glassfish**

-To **Resources > JDBC > JDBC Connection Pools > new** for creating new connection pools.

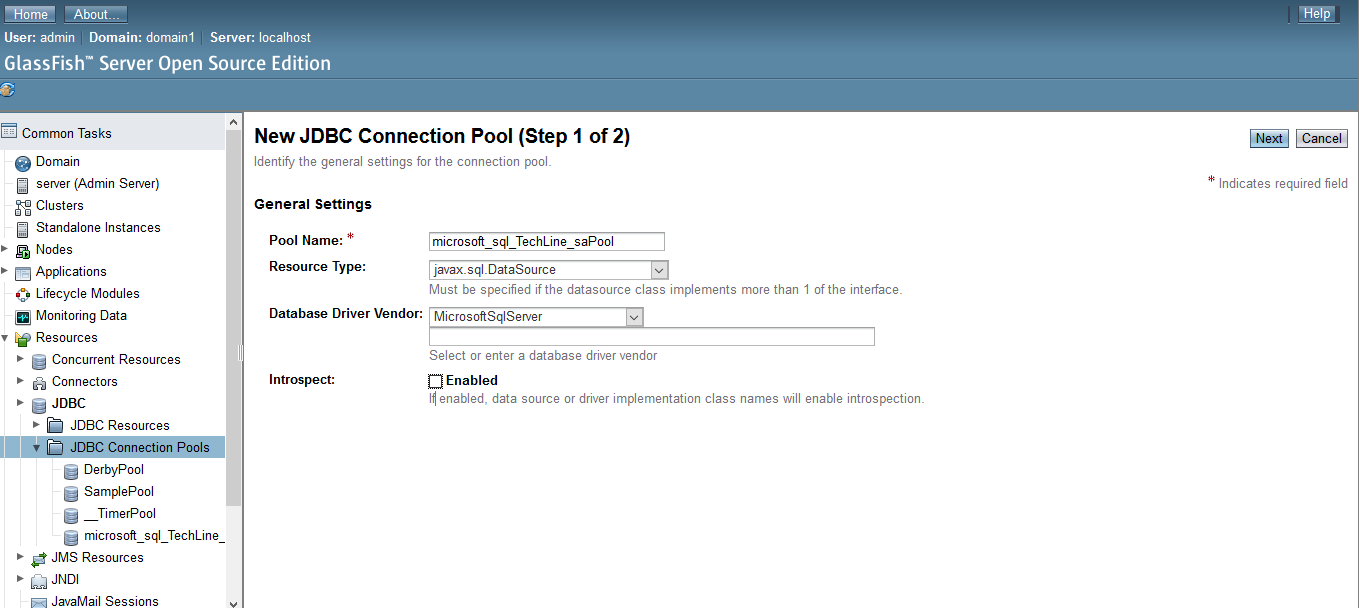


-On **New\_JDBC\_Connection\_Pool** page, typing or choosing these options as following:

- Name: **microsoft\_sql\_TechLine\_saPool**

- Resource Type: **javax.sql.DataSource**

- Database Vendor: **MicrosoftSqlServer**

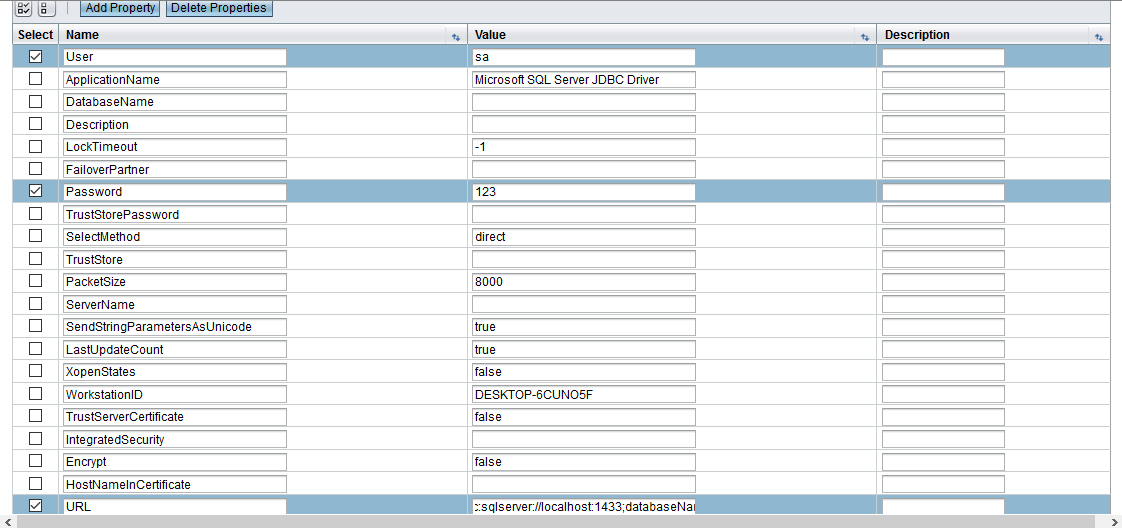


Then click **Next** for next step **New JDBC Connection Pool (Step 2 of 2)**. After that, Scrolling down to **Additional Properties** then typing these information:

- Passsword: **123**

- URL: jdbc:sqlserver://localhost:1433;databaseName=TechLine

- User: **sa**



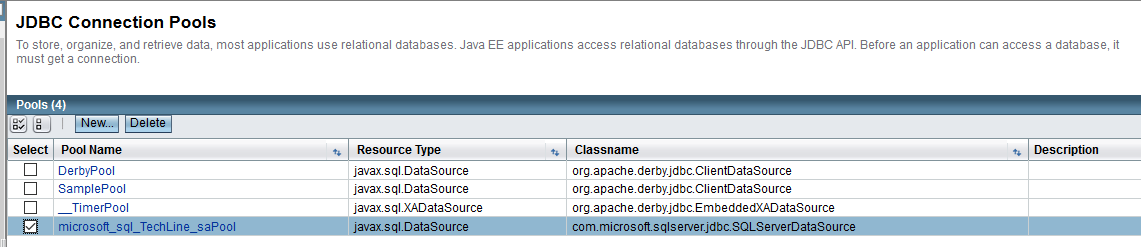
NOTE: **User**: target database username,

**Password**: target database password,

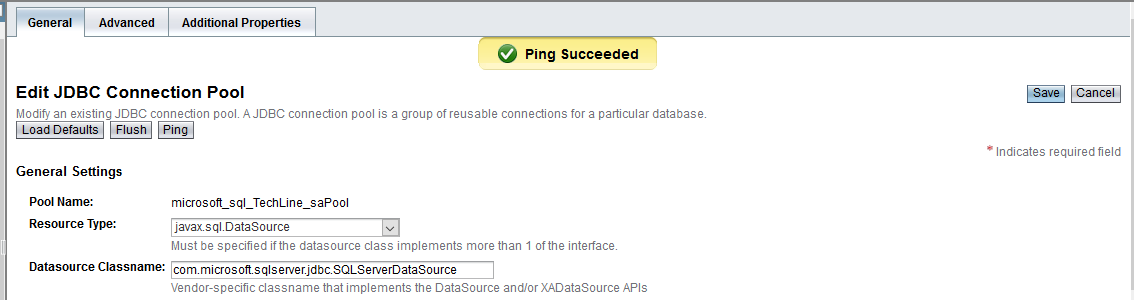
**URL**: target connection string.

Then click **Finish**.

To the next step, testing connection pool:



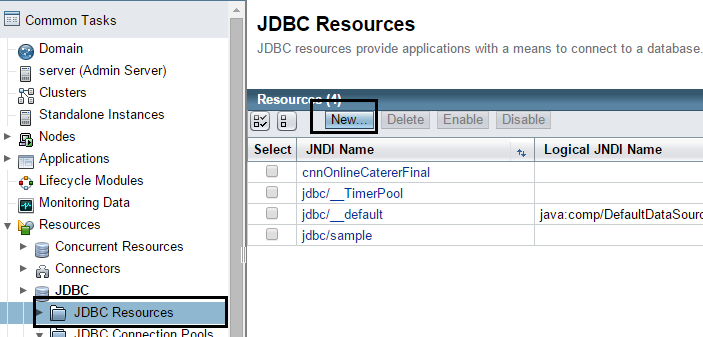
Click **microsoft\_sql\_TechLine\_saPool** to ping database

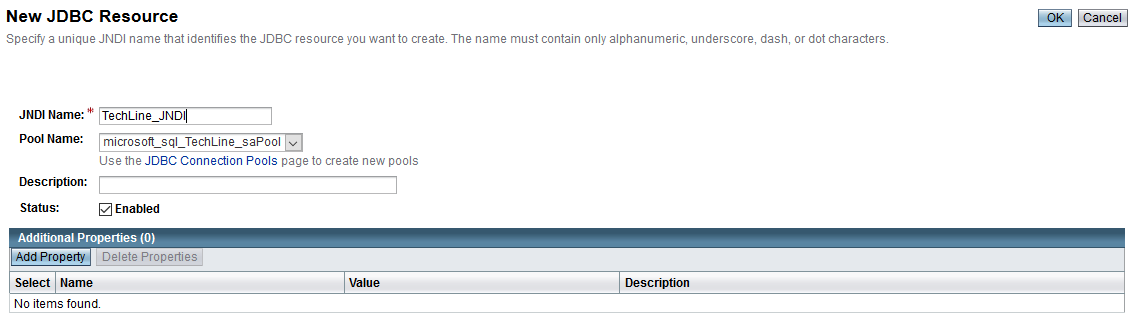


Click ‘**Ping’**, if connect successful, “Ping Succeeded” should appear.

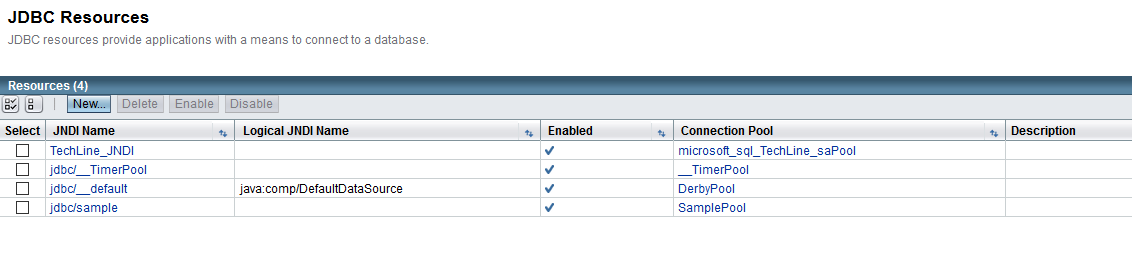
Now create **JDBC Resources** base on **microsoft\_sql\_TechLine\_saPool** to run the Project.

Create a new **JDBC Resources**. Click ‘**JDBC Resources’** and choose **‘New’**



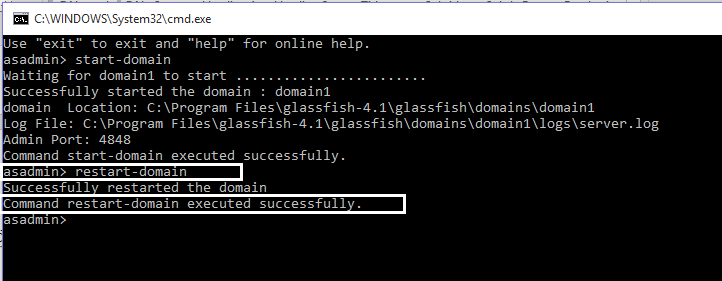
Filling the values in JNDI Name (**TechLine\_JNDI**) and Pool Name (**microsoft\_sql\_TechLine\_saPool)** as below. Then click ‘OK’ 

You’ll see the **TechLine\_JNDI** in **JDBC Resources**.



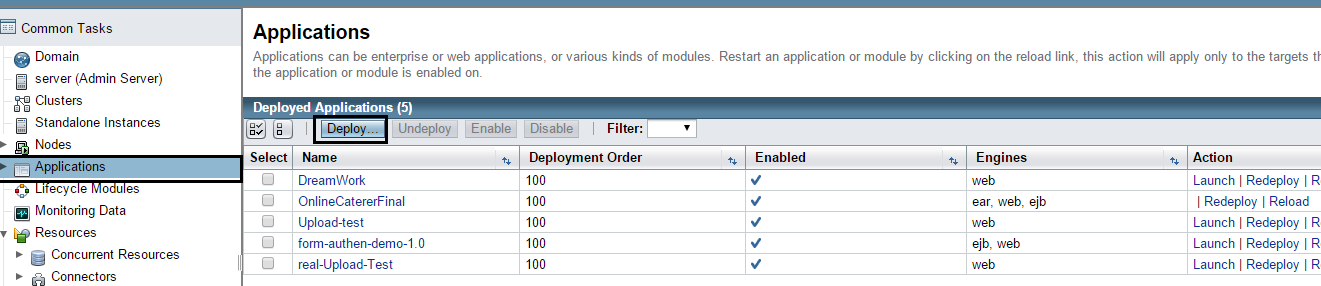
**Restart server to apply changed**.

Come back to command line where you start domain glassfish and type new command: **restart-domain** as belows:



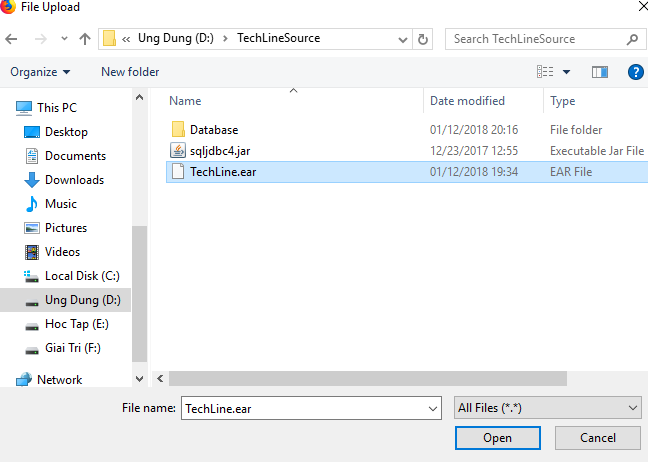
**Step 3: Deploy Application**

Now you can deploy TechLine. Click ‘**Application’** and click ‘**Deploy’** button.



Click ‘**Choose File’** button.

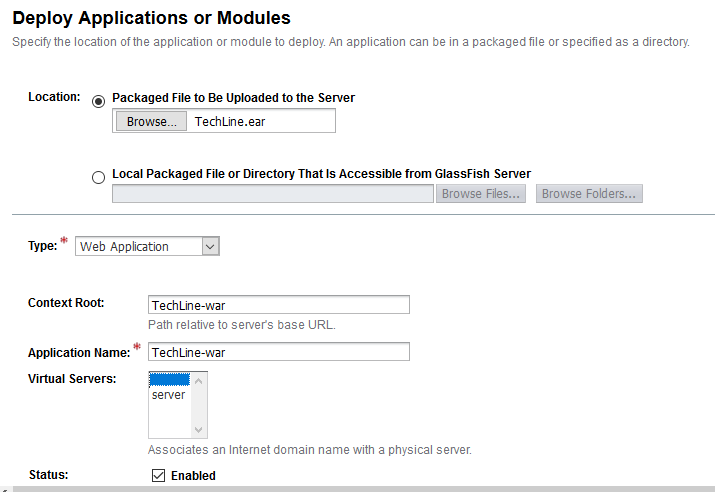
Select file **TechLine.ear** from **TechLineSource Folder.**



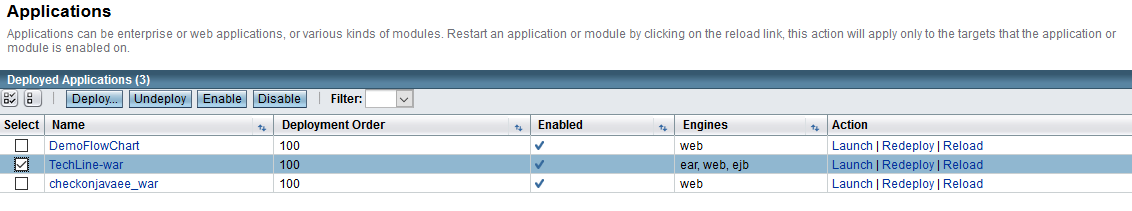
Select Type: **Web Application**

Input Context Root: **TechLine-war**

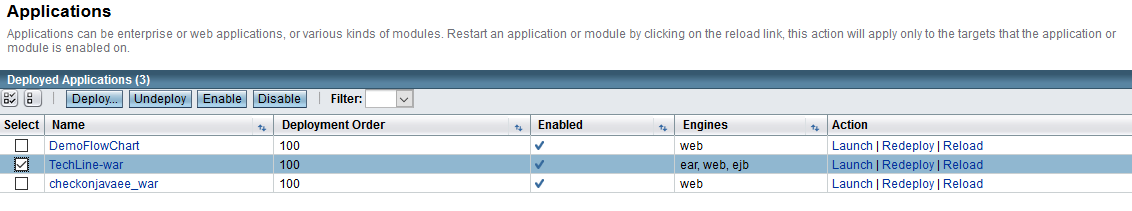
Input Application Name: **TechLine-war**



Then click ‘OK’, you’ll see **TechLine-war** in Applications frame

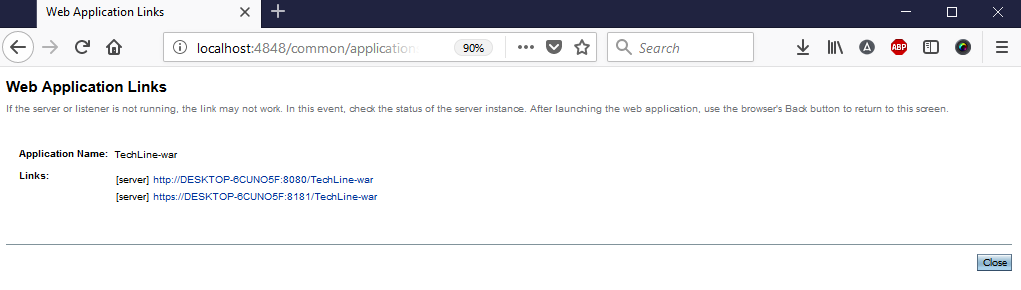


Click **Launch** link on same row with **TechLine-war** to launch it.

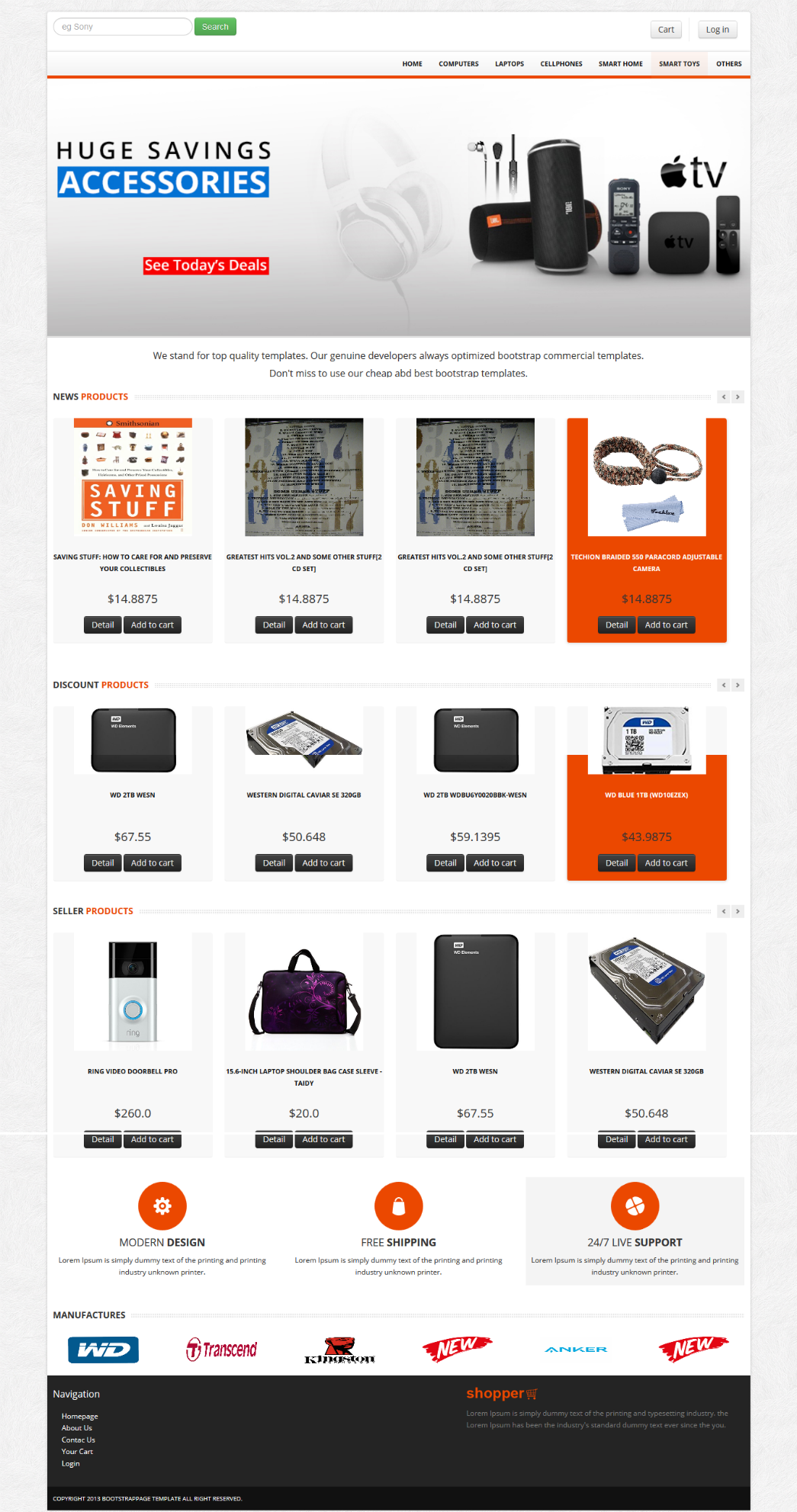


**Step 4: Lauch Project Click ‘Launch’.**

**After this window happen, chose one of below links:**



Click the first link: example **http://localhost:8080/TechLine-war/** and then the first web page will appear for you.



**Run Website on Browser:**

Go to Internet browser type http://localhost:8080/TechLine-war/ on address, should use Firefox.

Click Login to Login:

**Login for Administrator:**

Username: admin

Password: admin

**Login for User:**

Username: tuyetbich

Password: 123456

**Login for Seller:**

Username: kenny

Password: 123abca