

## Installation of Pentaho Software

Author: Zhengtong Yan

This document provides details about downloading and installing Pentaho software:

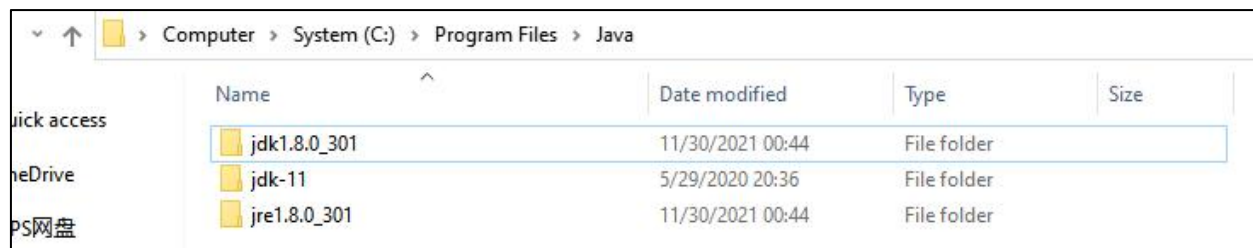
- **Step 1. Install the Java Dependencies (JDK 8, NOT JDK 11 or other higher versions).**
- **Step 2. Set Up the Environment Variables.**
- **Step 3. Download and Install Pentaho Software**
  - ✧ **Pentaho Server**
  - ✧ **Pentaho Data Integration**
  - ✧ **Pentaho Schema Workbench**

### Step 1: Install the Java Dependencies If Required

To run Pentaho, Java Runtime Environment and Java Development Kit are required. To check if you already have these installed, go to this path in your file explorer (for Windows system):

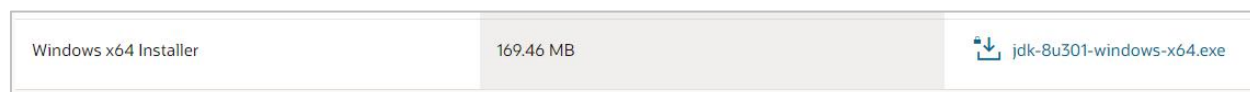
[C:\Program Files\Java](#) Or [C:\Program Files \(x86\)\Java](#)

If this folder exists and contains folders like “jdk1.8.0\_301” and “jre1.8.0\_301” as follows, then you have the required files.

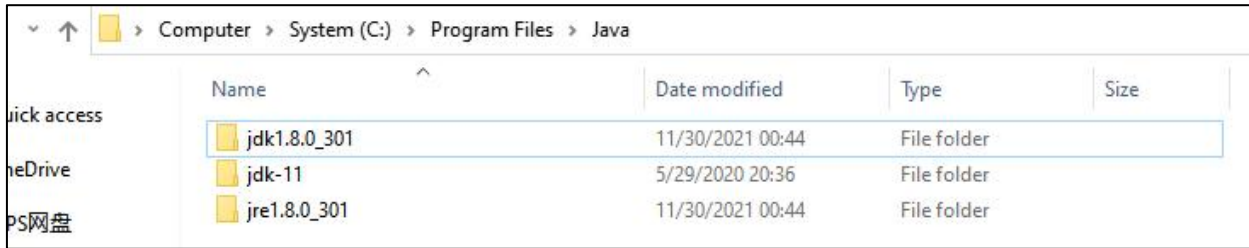


If this folder doesn't exist or you don't see one or both of these folders, then you need to download JDK 1.8. To download JDK 1.8, go to this link:

<https://www.oracle.com/java/technologies/javase/javase8u211-later-archive-downloads.html>

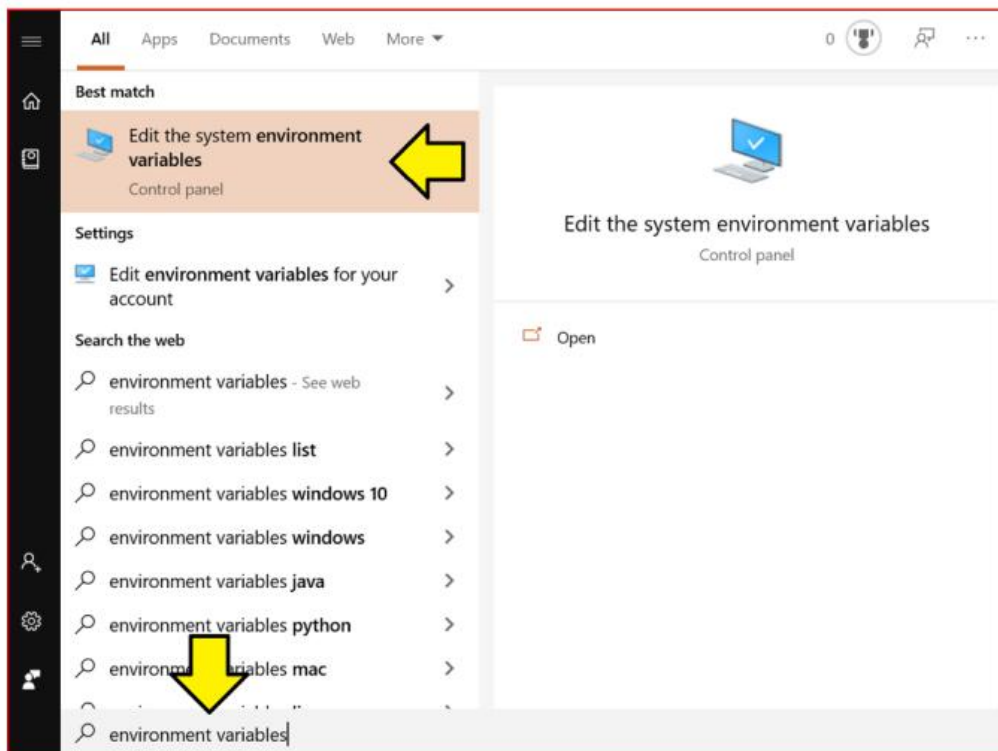


and download “jdk-8u301-windows-x64.exe”. You need an Oracle account to log in when downloading the JDK. After download the jdk, you run the installer to install JDK 1.8 and JRE 1.8. (Notice that JRE 1.8 is included in JDK 1.8, you will install JRE 1.8 when installing JDK 1.8). After successful installation, you can find the following two folders: “jdk1.8.0\_301” and “jre1.8.0\_301”

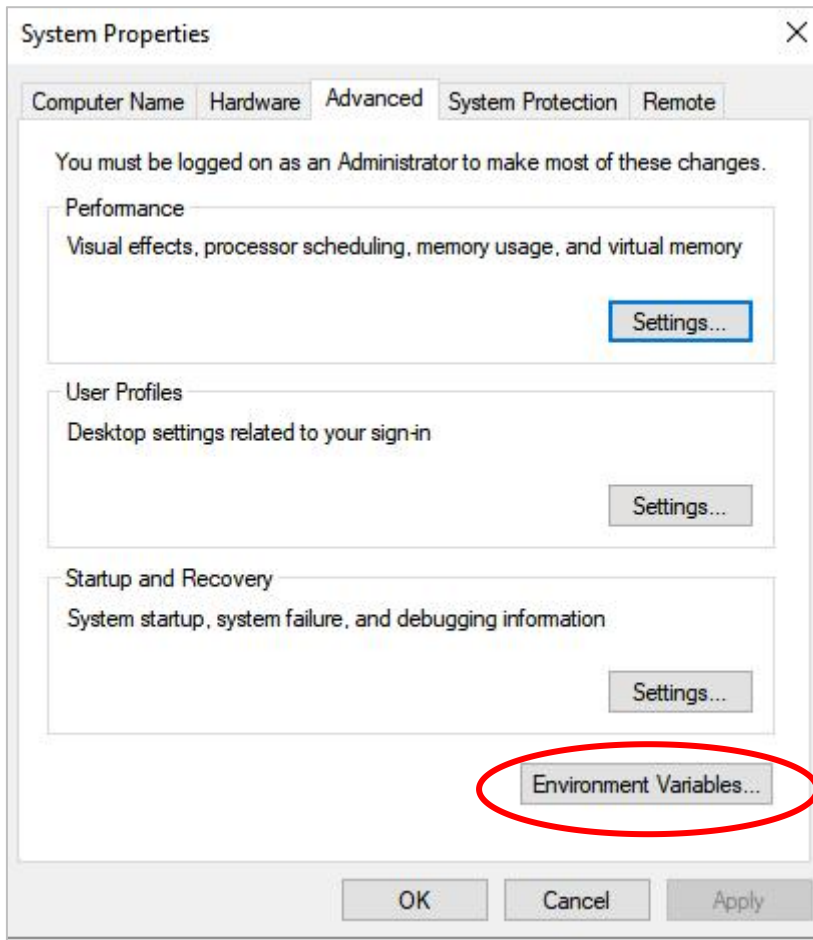


## Step 2: Set Up the Environment Variables

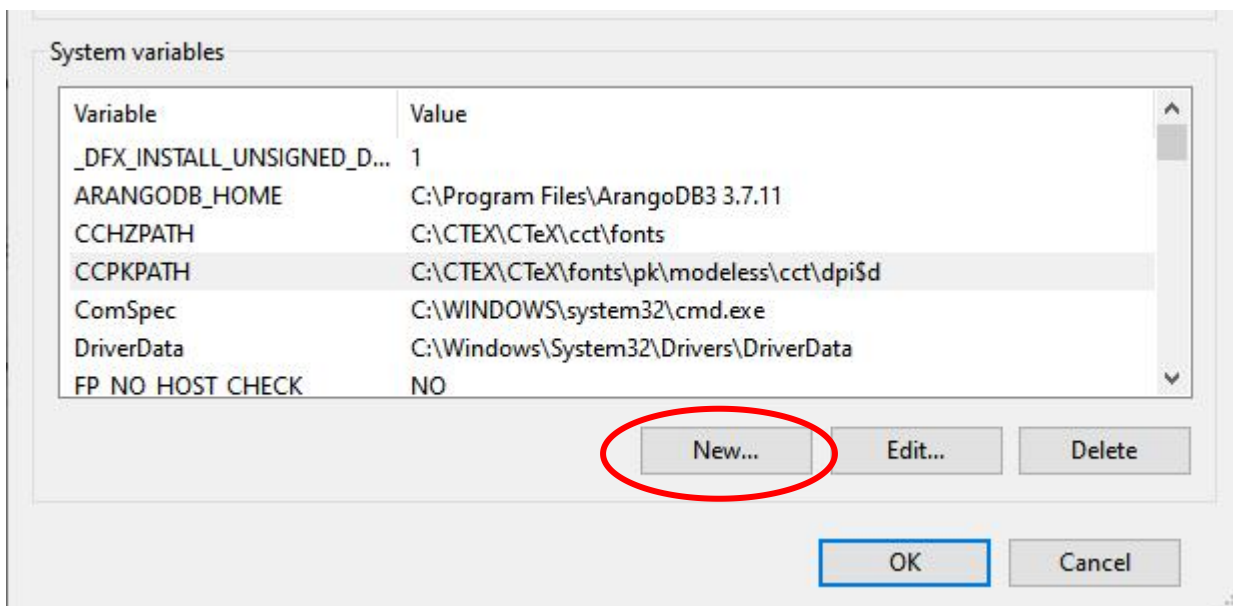
The easiest way to open the environment variables menu is to type in “environment variables” in the Windows search bar like this:



Click the “Edit the system environment variables” option. That will open the “System Properties” window. Click the “**Environment Variables...**” button at the bottom.



That will open a window that looks like this:



Click the **“New...”** button under “System variables” and enter the following three new System variables:

- ✓ **PENTAHO\_JAVA\_HOME:** C:\Program Files\Java\jre1.8.0\_301
- ✓ **PENTAHO\_JAVA:** C:\Program Files\Java\jre1.8.0\_301\bin\java.exe
- ✓ **JAVA\_HOME:** C:\Program Files\Java\jdk1.8.0\_301

New System Variable

Variable name: PENTAHO\_JAVA\_HOME

Variable value: C:\Program Files\Java\jre1.8.0\_301

Browse Directory... Browse File... OK Cancel

New System Variable

Variable name: PENTAHO\_JAVA

Variable value: C:\Program Files\Java\jre1.8.0\_301\bin\java.exe

Browse Directory... Browse File... OK Cancel

New System Variable

Variable name: JAVA\_HOME

Variable value: C:\Program Files\Java\jdk1.8.0\_301

Browse Directory... Browse File... OK Cancel


Make sure your variable value file path is the same one on your computer.

## Step 3: Download and Install Pentaho Software

### (1) Download the software

You should install the community edition of Pentaho. The latest version (9.2.0.0) is available from the SourceForge website.


- Go to <https://sourceforge.net/projects/pentaho/>
- Click “Files” tab

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Pentaho tightly couples data integration with business analytics in a modern platform that brings together IT and business users to easily access, visualize and explore all data that impacts business results. Use it as a full suite or as individual components that are accessible on-premise in the cloud or on-the-go (mobile). Pentaho Kettle enables IT and developers to access and integrate data from any source, and deliver it to your business applications, all from within an intuitive and easy to use graphical tool.

- Click “Pentaho-9.2” folder

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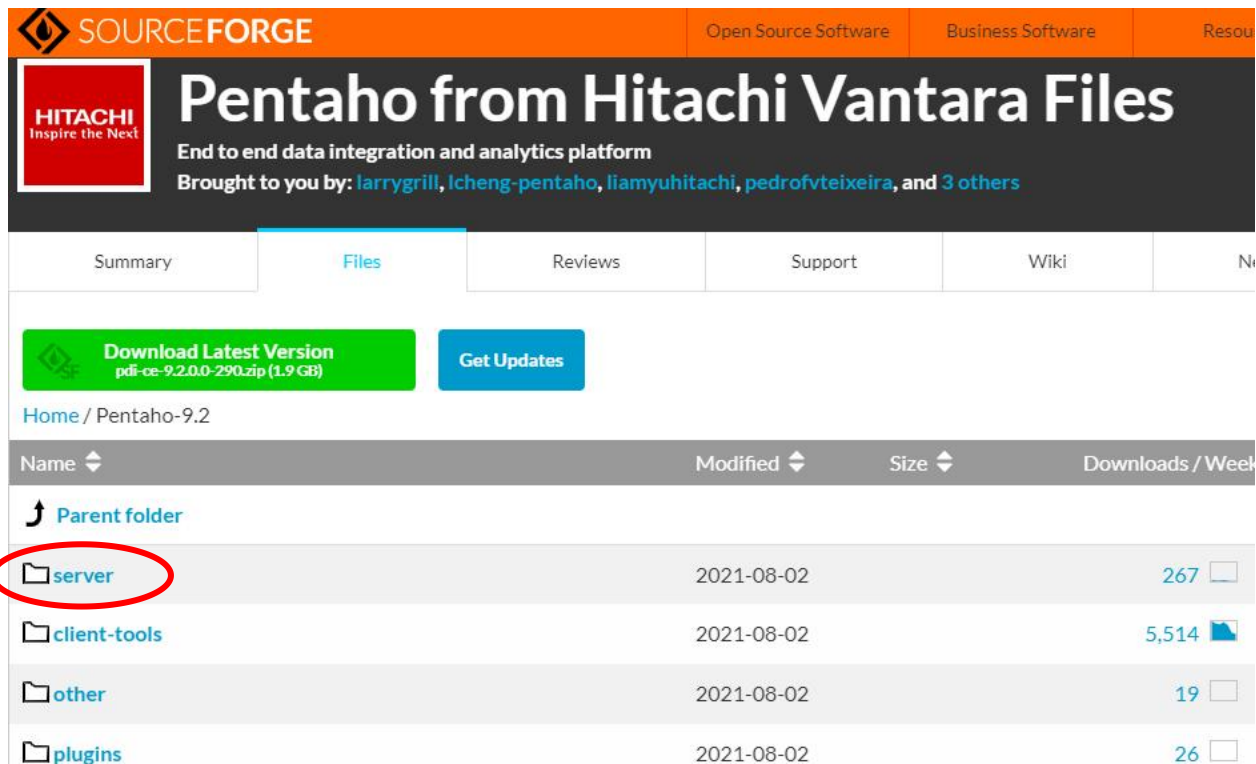
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Name	Modified	Size	Downloads / Week
 <b>Pentaho-9.2</b>	2021-08-02		5,826 
 <b>Pentaho 9.1</b>	2020-09-25		437 
 <b>White Papers</b>	2020-04-20		26 
 <b>Pentaho 9.0</b>	2020-02-01		201 

- Click “server” directory



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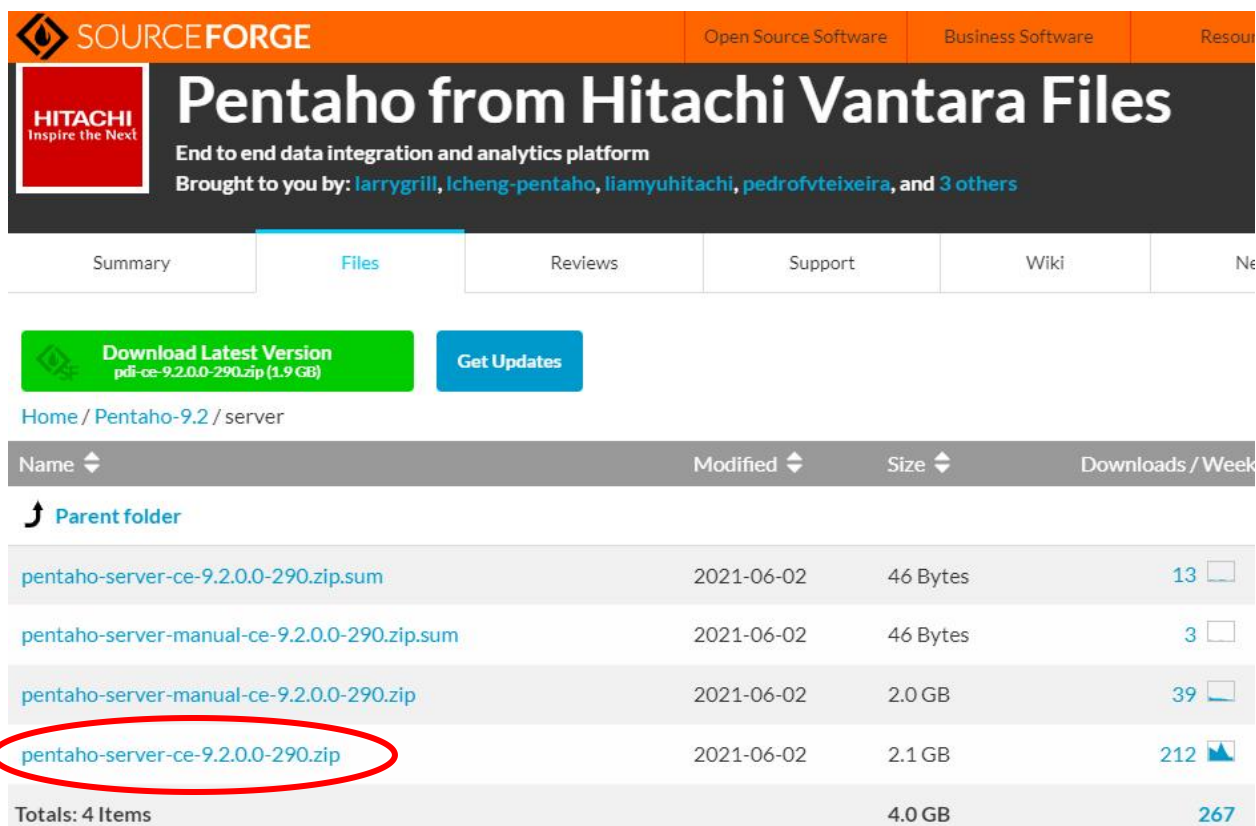
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Name	Modified	Size	Downloads / Week
<a href="#">Parent folder</a>			
<a href="#">server</a>	2021-08-02		267
<a href="#">client-tools</a>	2021-08-02		5,514
<a href="#">other</a>	2021-08-02		19
<a href="#">plugins</a>	2021-08-02		26

- Click “[pentaho-server-ce-9.2.0.0-290.zip](#)” to download the Pentaho Server



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Name	Modified	Size	Downloads / Week
<a href="#">Parent folder</a>			
<a href="#">pentaho-server-ce-9.2.0.0-290.zip.sum</a>	2021-06-02	46 Bytes	13
<a href="#">pentaho-server-manual-ce-9.2.0.0-290.zip.sum</a>	2021-06-02	46 Bytes	3
<a href="#">pentaho-server-manual-ce-9.2.0.0-290.zip</a>	2021-06-02	2.0 GB	39
<a href="#">pentaho-server-ce-9.2.0.0-290.zip</a>	2021-06-02	2.1 GB	212
<b>Totals: 4 Items</b>		<b>4.0 GB</b>	<b>267</b>



- Go back to the “[Pentaho-9.2](#)” directory and click “[client-tools](#)”


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 pdi-ce-9.2.0.0-290.zip (1.9 GB)

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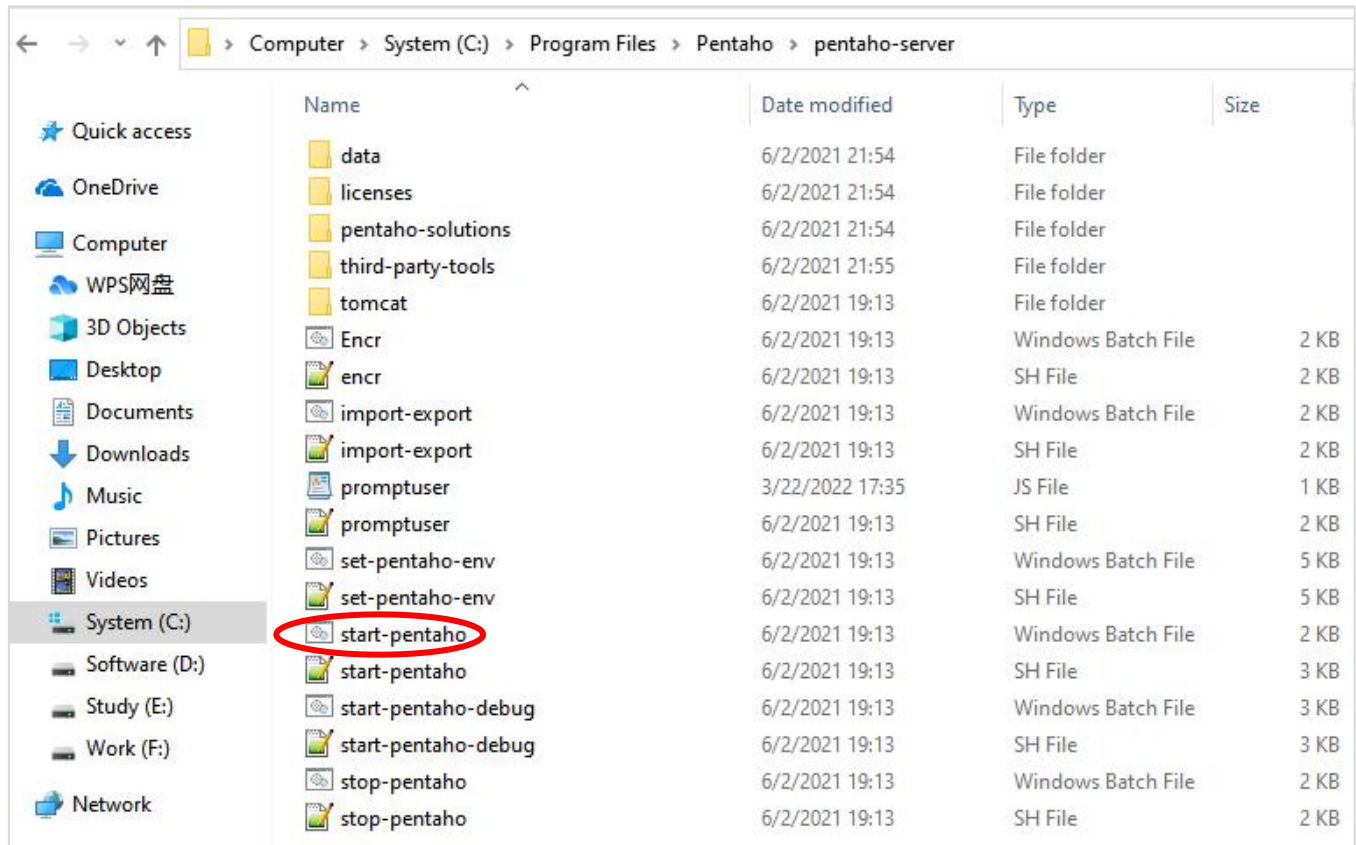
Name	Modified	Size	Downloads / Week
<a href="#">Parent folder</a>			
<a href="#">server</a>	2021-08-02		267
<a href="#">client-tools</a>	2021-08-02		5,514
<a href="#">other</a>	2021-08-02		19
<a href="#">plugins</a>	2021-08-02		26

- Click “[pdi-ce-9.2.0.0-290.zip](#)” and “[psw-ce-9.2.0.0-290.zip](#)” to download the Pentaho Data Integration and Pentaho Schema Workbench:

 <b>SOURCEFORGE</b>	<a href="#">Open Source Software</a>	<a href="#">Business Software</a>	<a href="#">Resources</a>
<a href="#">prd-ce-9.2.0.0-290.zip.sum</a>	2021-06-02	46 Bytes	10
<a href="#">pme-ce-9.2.0.0-290.zip.sum</a>	2021-06-02	46 Bytes	1
<a href="#">psw-ce-9.2.0.0-290.zip.sum</a>	2021-06-02	46 Bytes	1
<a href="#">pdi-ce-9.2.0.0-290.zip.sum</a>	2021-06-02	46 Bytes	7
<a href="#">pad-ce-9.2.0.0-290.zip.sum</a>	2021-06-02	46 Bytes	2
<a href="#">pdi-ce-9.2.0.0-290.zip</a>	2021-06-02	1.9 GB	5,327
<a href="#">pme-ce-9.2.0.0-290.zip</a>	2021-06-02	1.7 GB	14
<a href="#">pad-ce-9.2.0.0-290.zip</a>	2021-06-02	28.4 MB	18
<a href="#">prd-ce-9.2.0.0-290.zip</a>	2021-06-02	1.7 GB	66
<a href="#">pentaho-big-data-plugin-9.2.0.0-290.zip</a>	2021-06-02	520.4 MB	20
<a href="#">psw-ce-9.2.0.0-290.zip</a>	2021-06-02	26.4 MB	41
Totals: 12 Items		5.9 GB	5,514

## (2) Install Pentaho Server

- Unzip the downloaded “[pentaho-server-ce-9.2.0.0-290](#)” file to any folder, you will get a [pentaho-server](#) folder.
- Windows users should copy the folder “[pentaho-server](#)” to the folder [C:\Program Files\Pentaho](#). Mac and Linux users (including Oracle Virtual Box) may move the file to any folder.
- Run the file [start-pentaho.bat](#) by double clicking on it. If you get a permission error or cannot execute the bat file, you should right click and select “Run as Administrator”. For Mac and Linux users, run the [start-pentaho.sh](#) from terminal





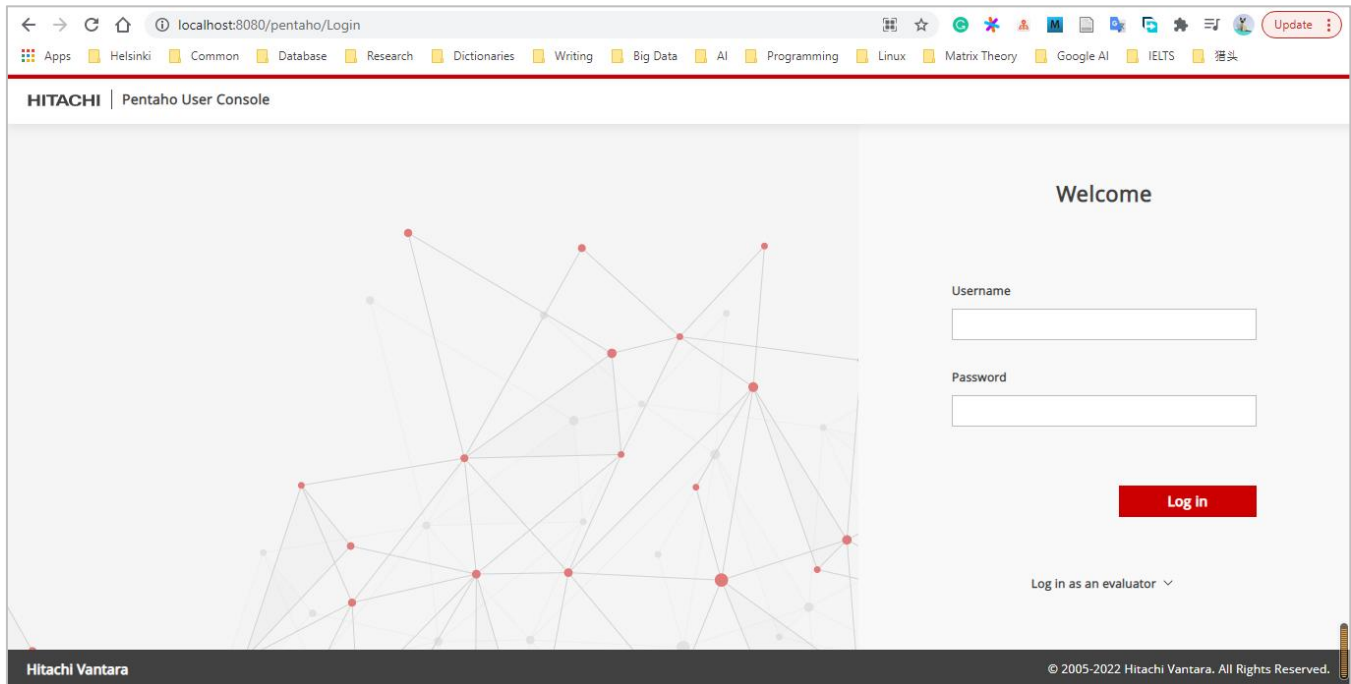
A window will be open as follows:

```
Tomcat
16-Mar-2022 18:47:31.360 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server version name: Apache
Tomcat/9.0.44
16-Mar-2022 18:47:31.521 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server built: Mar 4
2021 21:49:34 UTC
16-Mar-2022 18:47:31.524 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server version number: 9.0.44
.0
16-Mar-2022 18:47:31.525 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Name: Window
s 10
16-Mar-2022 18:47:31.525 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Version: 10.0
16-Mar-2022 18:47:31.525 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Architecture: amd64
16-Mar-2022 18:47:31.525 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Java Home: C:\Pro
gram Files\Java\jre1.8.0_301
16-Mar-2022 18:47:31.525 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JVM Version: 1.8.0_
301-b09
16-Mar-2022 18:47:31.526 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JVM Vendor: Oracle
Corporation
16-Mar-2022 18:47:31.526 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log CATALINA_BASE: C:\Pro
gram Files\Pentaho\pentaho-server\tomcat
16-Mar-2022 18:47:31.526 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log CATALINA_HOME: C:\Pro
gram Files\Pentaho\pentaho-server\tomcat
16-Mar-2022 18:47:31.693 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava
.util.logging.config.file=C:\Program Files\Pentaho\pentaho-server\tomcat\conf\logging.properties
16-Mar-2022 18:47:31.698 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava
.util.logging.manager=org.apache.juli.ClassLoaderLogManager
16-Mar-2022 18:47:31.701 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djdk.
tls.ephemeralDHKeySize=2048
16-Mar-2022 18:47:31.701 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava
.protocol.handler.pkgs=org.apache.catalina.webresources
16-Mar-2022 18:47:31.702 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Xms20
48m
```

After about 7-10 minutes, the server will be started successfully.

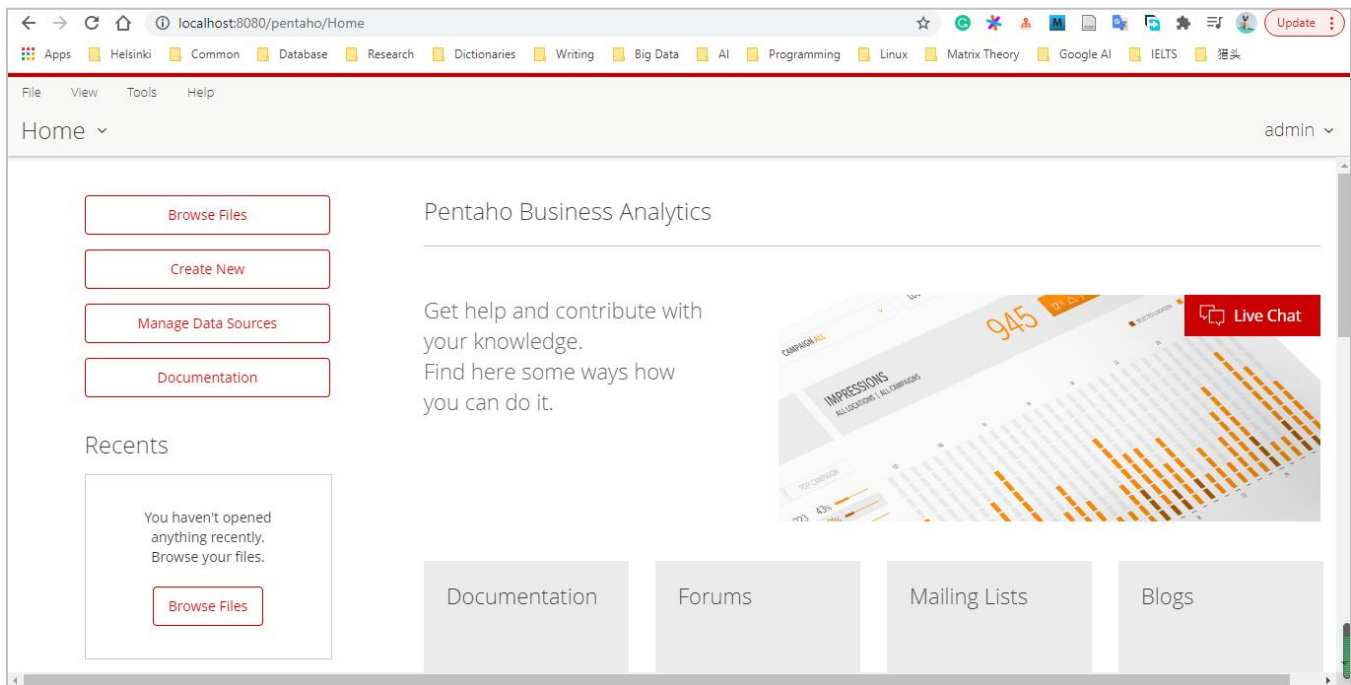
```
Tomcat
16-Mar-2022 18:58:02.545 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application di
rectory [C:\Program Files\Pentaho\pentaho-server\tomcat\webapps\pentaho-style]
16-Mar-2022 18:58:05.170 INFO [main] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs
yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs w
ere found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
16-Mar-2022 18:58:05.200 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web applicatio
n directory [C:\Program Files\Pentaho\pentaho-server\tomcat\webapps\pentaho-style] has finished in [2,656] ms
16-Mar-2022 18:58:05.228 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application di
rectory [C:\Program Files\Pentaho\pentaho-server\tomcat\webapps\ROOT]
16-Mar-2022 18:58:07.303 INFO [main] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs
yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs w
ere found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
16-Mar-2022 18:58:07.343 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web applicatio
n directory [C:\Program Files\Pentaho\pentaho-server\tomcat\webapps\ROOT] has finished in [2,116] ms
16-Mar-2022 18:58:07.385 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application di
rectory [C:\Program Files\Pentaho\pentaho-server\tomcat\webapps\sw-style]
2022/03/16 18:58:07 - RepositoriesMeta - Reading repositories XML file: FromInputStream
16-Mar-2022 18:58:09.099 INFO [main] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs
yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs w
ere found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
16-Mar-2022 18:58:09.175 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web applicatio
n directory [C:\Program Files\Pentaho\pentaho-server\tomcat\webapps\sw-style] has finished in [1,790] ms
16-Mar-2022 18:58:10.344 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-8080"]
16-Mar-2022 18:58:10.470 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in [627513] milliseconds
```

Open a browser and input: <http://localhost:8080/pentaho> to open the Pentaho User Console as follows:

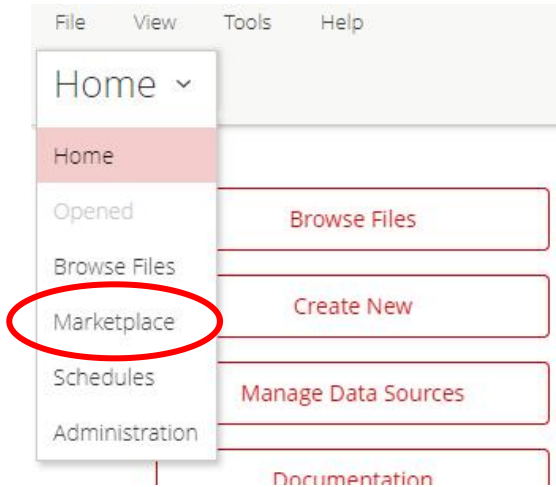


Input the username and password as follows:

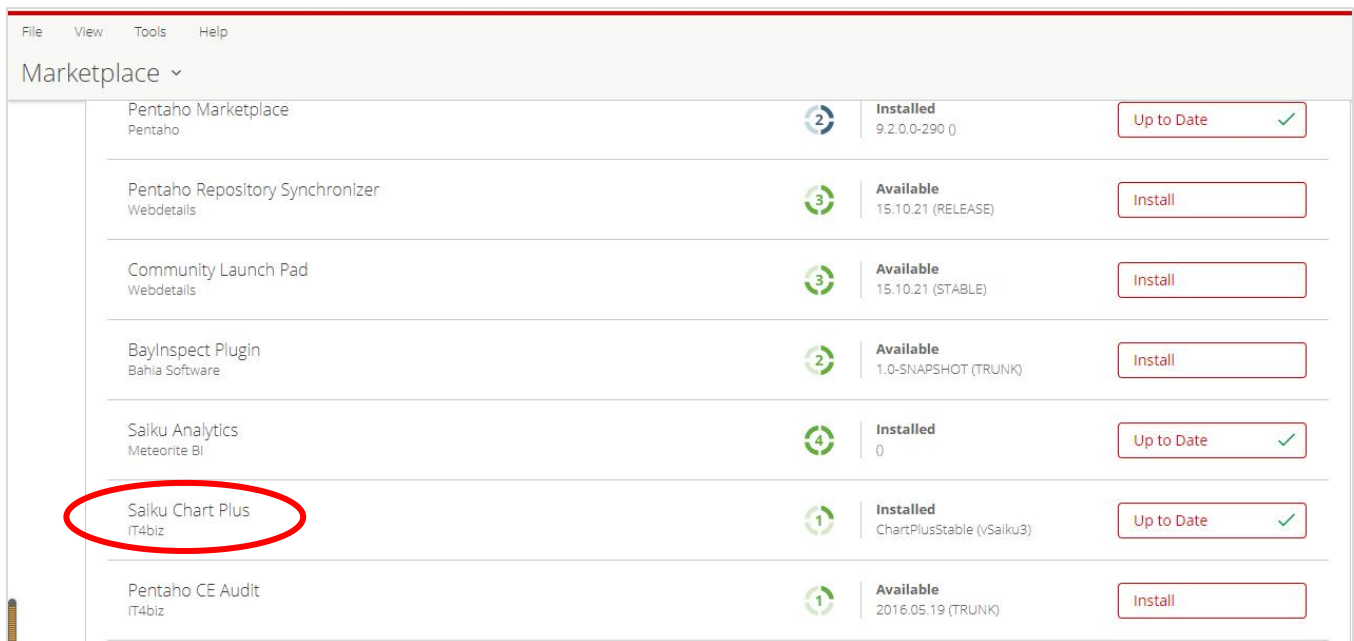
- Username: [admin](#)
- Password: [password](#)



- Click Home Menu and then click “Marketplace”

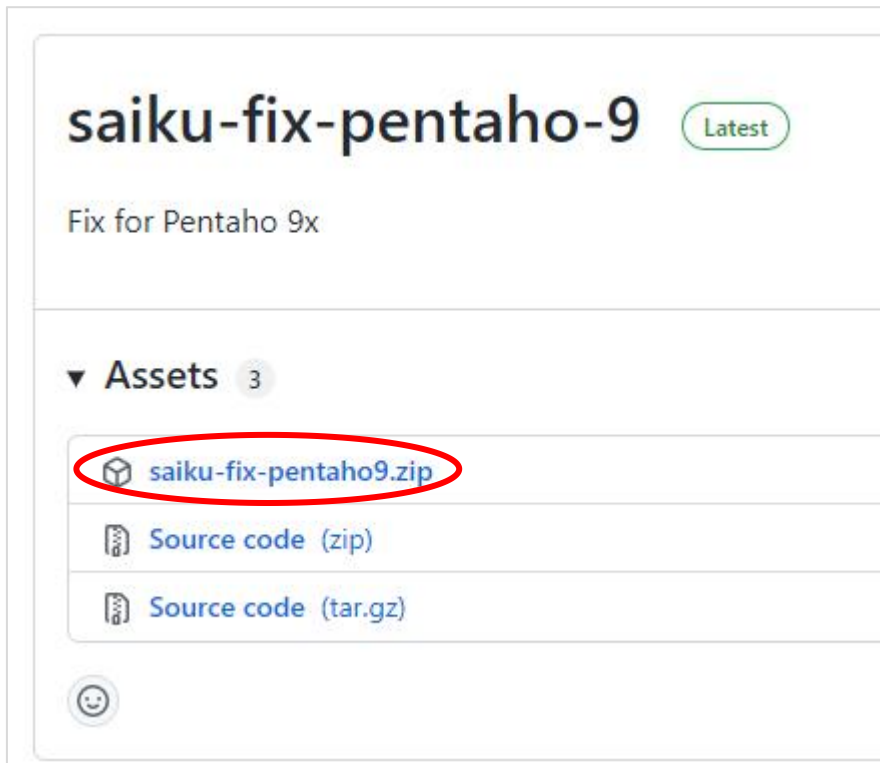


- In the opened window, click the install button of “[Saiku Chart Plus](#)” to install this tool.

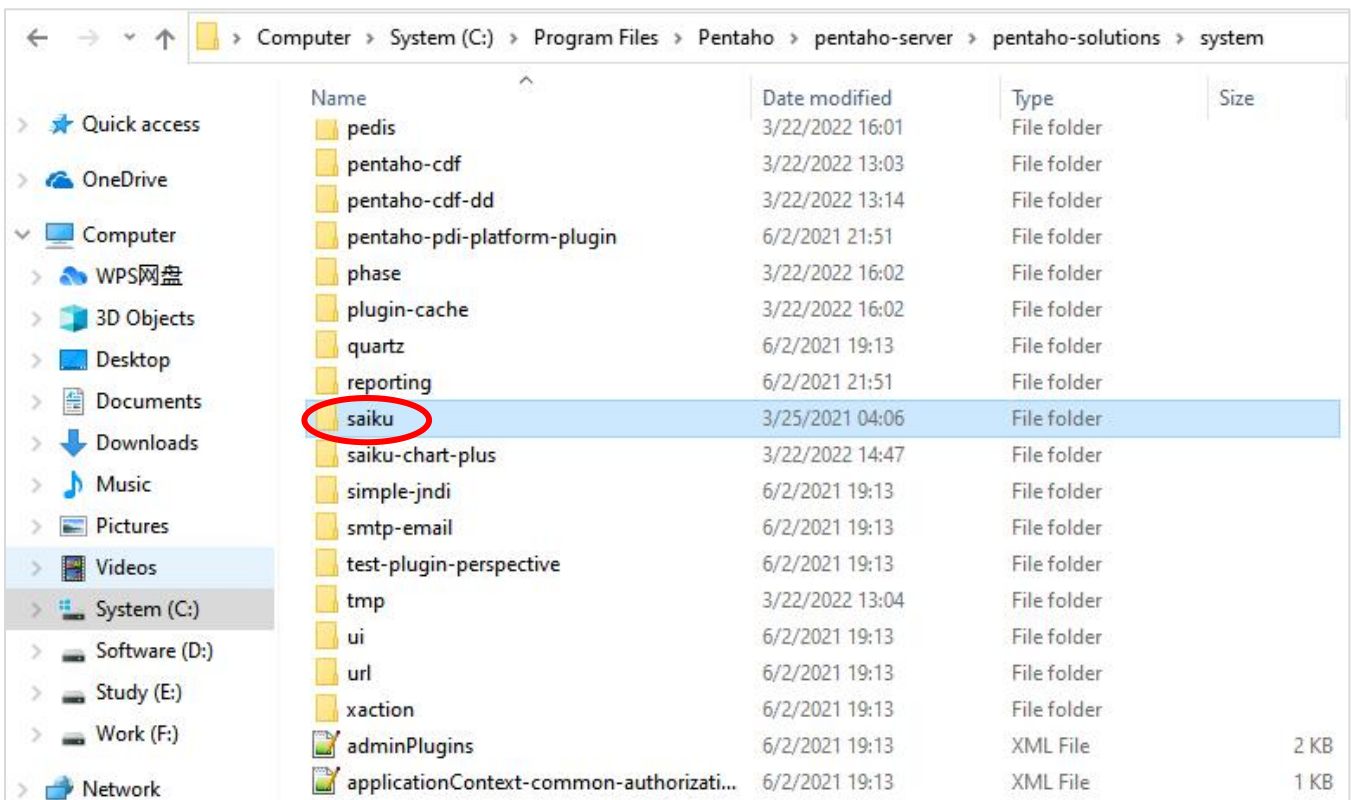


Notice that the Pentaho Community Edition does not support “Saiku Analytics” free, so we cannot directly install in this window.

- Download Saiku Analytics from <https://github.com/ambientelivre/saiku-fix/releases>, click [saiku-fix-pentaho9.zip](#) to download the file.

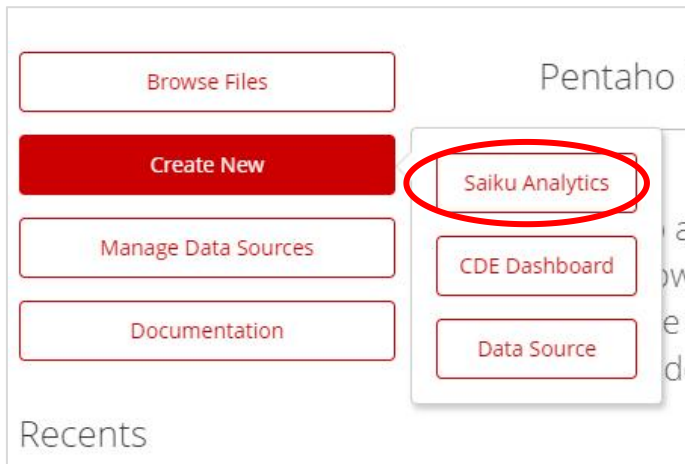


- Unzip the downloaded “[saiku-fix-pentaho9.zip](#)” file to any folder, you will get a [saiku](#) folder.
- Copy the folder [saiku](#) to the folder `C:\Program Files\Pentaho\pentaho-server\pentaho-solutions\system`.



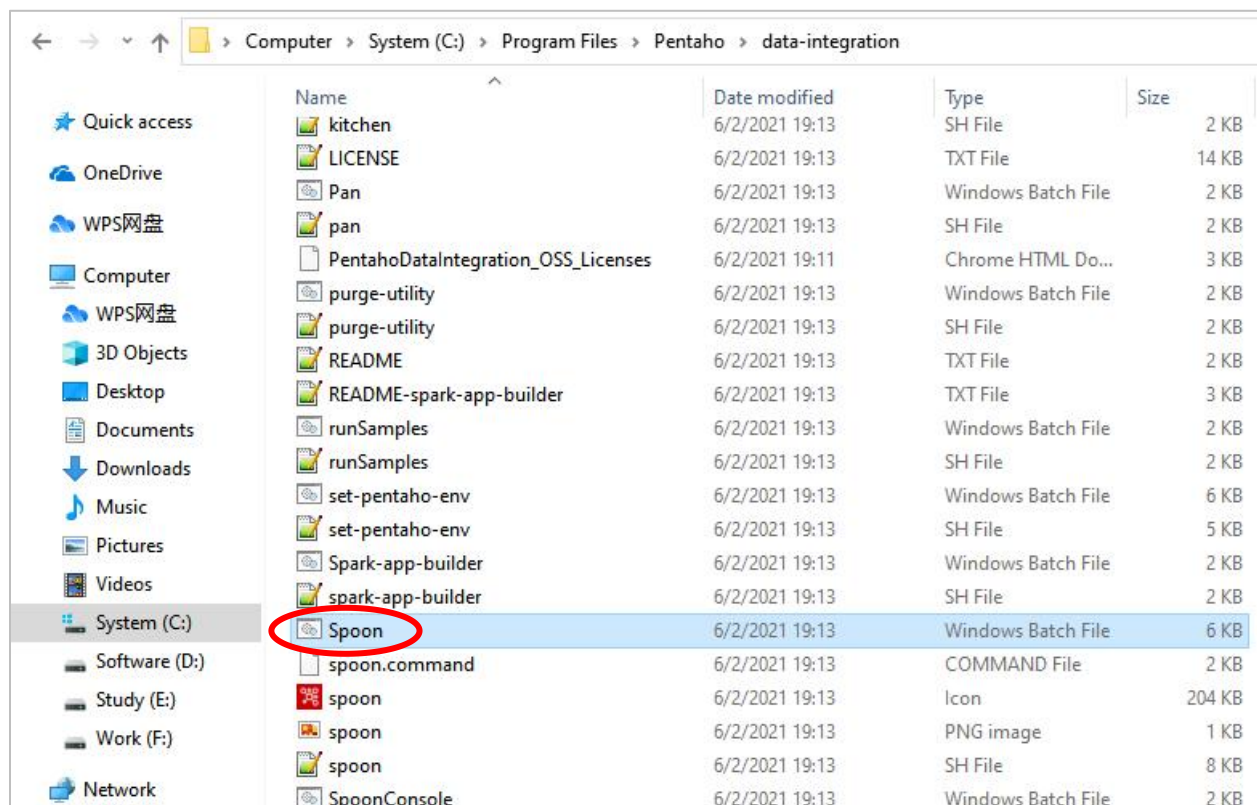
- Restart the Pentaho Server and login into the User Console, click “Create New” button, you will see [Saiku Analytics](#), this means that you have successfully installed Saiku.





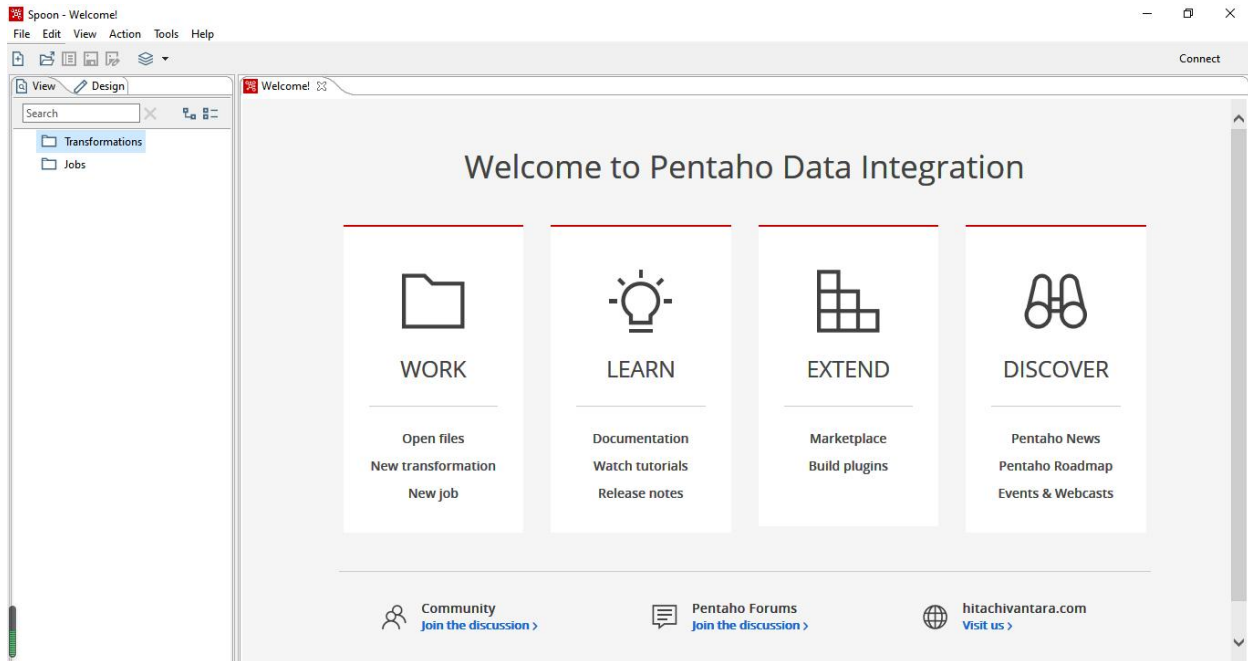
### (3) Install Pentaho Data Integration

- Unzip the downloaded “[pdi-ce-9.2.0.0-290.zip](#)” file to any folder, you will get a [data-integration](#) folder.
- Windows users should copy the folder “[data-integration](#)” to the folder [C:\Program Files\Pentaho](#). Mac and Linux users (including Oracle Virtual Box) may move the file to any folder.
- Run the file [Spoon.bat](#) by double clicking on it. If you get a permission error or cannot execute the bat file, you should right click and select “Run as Administrator”. For Mac and Linux users, run the [Spoon.sh](#) from terminal.





- After you launch Pentaho Data Integration, you will see the Welcome window and then the Spoon designer.

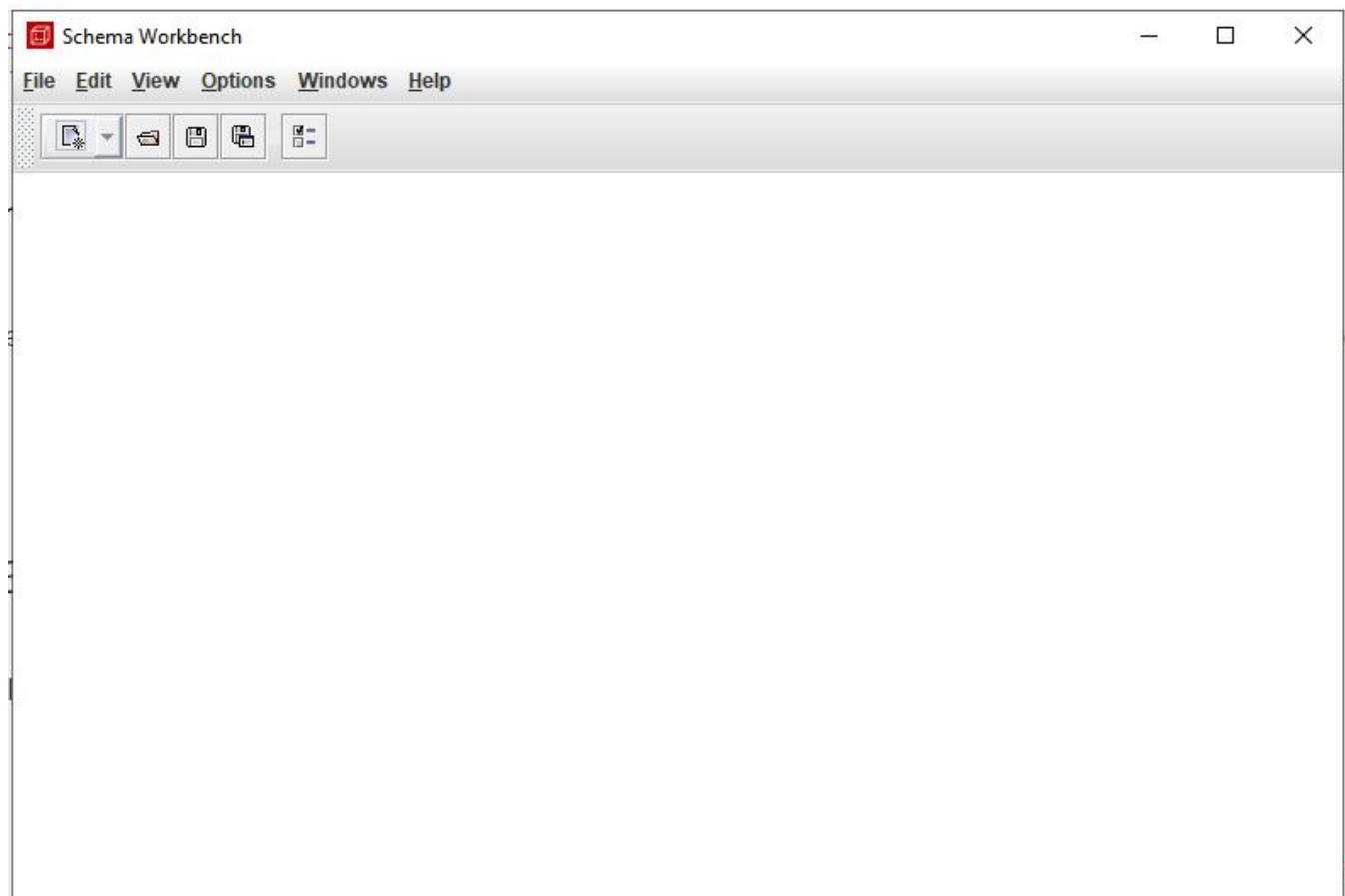


#### (4) Install Pentaho Schema Workbench

- Unzip the downloaded “[psw-ce-9.2.0.0-290](#)” file to any folder, you will get a [schema-workbench](#) folder.
- Windows users should copy the folder “[schema-workbench](#)” to the folder [C:\Program Files\Pentaho](#). Mac and Linux users (including Oracle Virtual Box) may move the file to any folder.
- Copy the [postgresql-42.2.5.jar](#) file from “[C:\Program Files\Pentaho\data-integration\lib](#)” to “[C:\Program Files\Pentaho\schema-workbench\lib](#)”

Computer > System (C:) > Program Files > Pentaho > schema-workbench > lib				
Name	Date modified	Type	Size	
kettle-password-encoder-plugins	6/2/2021 19:13	XML File	1 KB	
log4j-1.2.17	6/2/2021 19:26	Executable Jar File	479 KB	
metastore-9.2.0.0-290	6/2/2021 19:27	Executable Jar File	137 KB	
mimepull-1.9.3	6/2/2021 19:54	Executable Jar File	61 KB	
mondrian-9.2.0.0-290	6/2/2021 19:35	Executable Jar File	3,499 KB	
mondrian-schemaworkbench-plugins-9....	6/2/2021 20:00	Executable Jar File	46 KB	
ognl-2.6.9	6/2/2021 19:36	Executable Jar File	165 KB	
olap4j-1.2.0	6/2/2021 19:34	Executable Jar File	324 KB	
olap4j-xmla-1.2.0	6/2/2021 19:34	Executable Jar File	209 KB	
pentaho-application-launcher-9.2.0.0-290	6/2/2021 19:31	Executable Jar File	26 KB	
pentaho-encryption-support-9.2.0.0-290	6/2/2021 19:28	Executable Jar File	22 KB	
postgresql-42.2.5	6/2/2021 19:36	Executable Jar File	807 KB	
scannotation-1.0.2	6/2/2021 19:36	Executable Jar File	19 KB	
simple-jndi-1.0.3	6/2/2021 19:36	Executable Jar File	44 KB	
slf4j-api-1.7.12	6/2/2021 19:28	Executable Jar File	32 KB	
slf4j-log4j12-1.7.12	6/2/2021 19:42	Executable Jar File	9 KB	
spring-core-5.3.3	6/2/2021 19:30	Executable Jar File	1,433 KB	
spring-expression-5.3.3	6/2/2021 19:30	Executable Jar File	276 KB	

- Run the file **workbench.bat** by double clicking on it. If you get a permission error or cannot execute the bat file, you should right click and select "Run as Administrator". For Mac and Linux users, run the **workbench.sh** from terminal. Finally, you will open the Schema Workbench window as follows:



## About Running Errors

If you cannot open the software successfully, please refer to the document "[Pentaho Installation Problems.pdf](#)".