



# Module 2

# ADempiere Installation

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# Module Objectives



- Know how to get the latest version of ADempiere
- Understand the core software components
- Know how to install ADempiere software on server / client (windows)



### **General Installation Guidelines**

- <http://adempiere.com/index.php/Installation>

### **Installation on Window and PostgreSQL**

- [http://adempiere.com/index.php/Adempiere\\_Install\\_for\\_Windows\\_%26\\_PostgreSQL](http://adempiere.com/index.php/Adempiere_Install_for_Windows_%26_PostgreSQL)

### **Installation on different Operating Systems**

- [http://adempiere.com/index.php/Installing\\_ADempiere\\_Manually](http://adempiere.com/index.php/Installing_ADempiere_Manually)

# Software components



## 1. JDK

- ADempiere need JDK not JRE
- We are using JDK6 update 20, but any update is fine
- <http://www.oracle.com/technetwork/java/javase/downloads/index.html>



## 2. PostgreSQL Database

- We are using version 8.4, but any version is fine
- <http://www.enterprisedb.com/products-services-training/pgdownload#windows>

PostgreSQL



## 3. ADempiere

- Current version is 3.6.0LTS
- <https://sourceforge.net/projects/adempiere/files/ADempiere%20Official%20Release/>



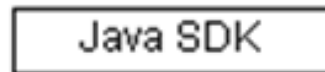
## 4. ADempiere Patches & Migration Scripts

- Use same patch version as ADempiere's version
- <https://sourceforge.net/projects/adempiere/files/ADempiere%20Patches/>

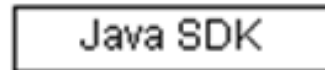
# Installation Steps Overview



## 1. Install Java



## 2. Install Database



## 3. Download ADempiere

unzip / tar



## 4. Setup ADempiere

RUN\_setup



## 5. Create ADempiere DB

RUN\_ImportAdempiere



## 6. Complete Server Setup

RUN\_Server2



# WORKSHOP



hands  
**On**

The text 'hands On' is centered on the page. The word 'hands' is in a black, lowercase, serif font. The word 'On' is in a larger, bold, black, lowercase, serif font. Two blue handprints are positioned behind the text, one on the left and one on the right, with their fingers spread as if holding the text.

# Install Java JDK



- Install the JAVA JDK (i.e., jdk-6u20-windows-i586.exe) with the default installation settings. Say OK to install the follow-on JRE as well.
- Open Windows Explorer and navigate to the C:\Program Files\Java directory (or where-ever your Java is installed) and carefully note the full path for the JDK directory (e.g: C:\Program Files\java\jdk1.6.0\_20) and the JRE directory that you have just installed

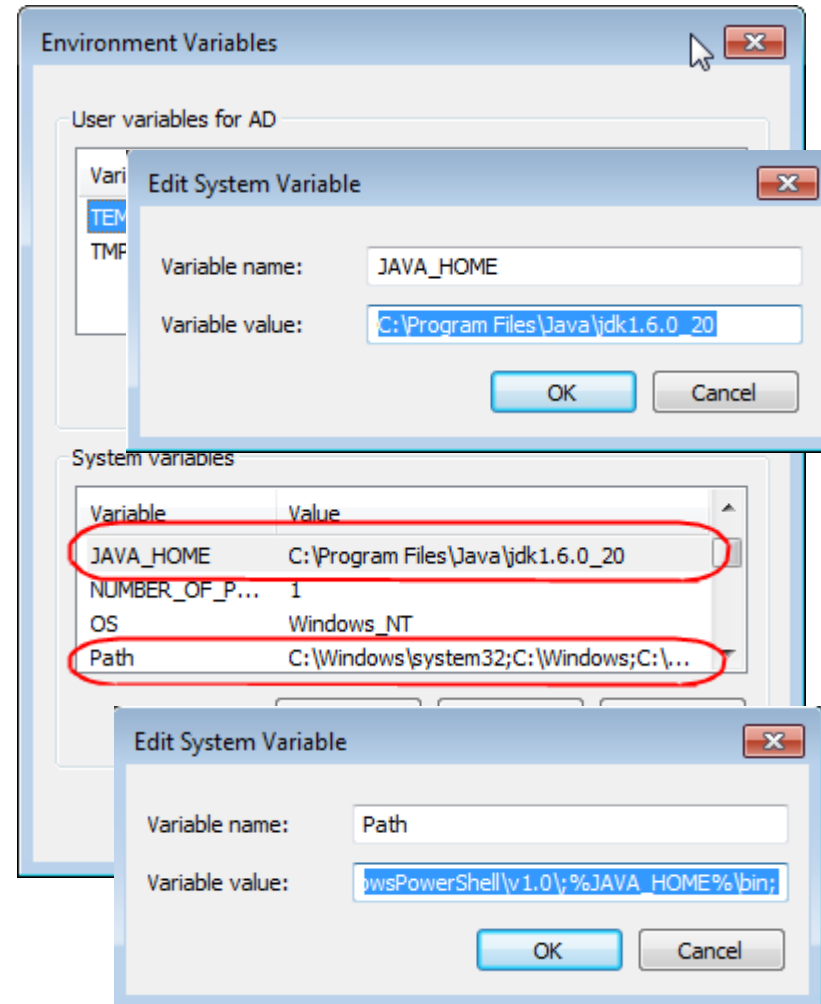


*There may well be a number of JDK and JRE directories, so choose the right ones! The JDK should include the JRE*

# Set JAVA Environment Variable



- On your Desktop (or using Start button / My Computer) right click My Computer and select System Properties / Advanced / Environmental Variables.  
(Alternatively: **Start** → **Control Panel** → **System** → **Advanced tab**.)
- Add a new System Variable **JAVA\_HOME** for your new JDK directory:
- **JAVA\_HOME** use C:\Program Files\Java\jdk1.6.0\_20 (or whatever your JDK directory is called) Back in My Computer / System Properties / Advanced / Environmental Variables, find the **Path** variable and click Edit.
- Append the following JDK path (%JAVA\_HOME%\bin) to the end of Path variable after putting in a connector semi-colon ";"

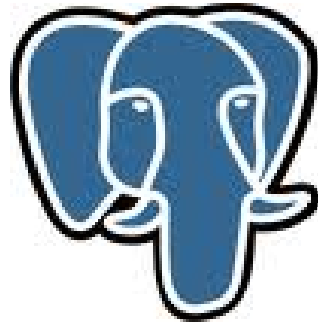




# Install PostgreSQL Database



- Install PostgreSQL by running the Windows executable installer (i.e., postgresql-8.4.4-1-windows.exe)
- Select your Locale and make sure the "pl/pgsql" box is ticked (which is the default)
- Uncheck the box "Launch Stack Builder at exit" and Finish. Cancel out of Stack Builder if it insists in launching



*If you receive an error message that the port is already in use, you probably have an old Postgres service running. Go to Control Panel/Administrative Tools/Services, find Postgres Database Server, Stop the service and set its startup to Manual. Try again.*

## Set System Variable for PostgreSQL Database

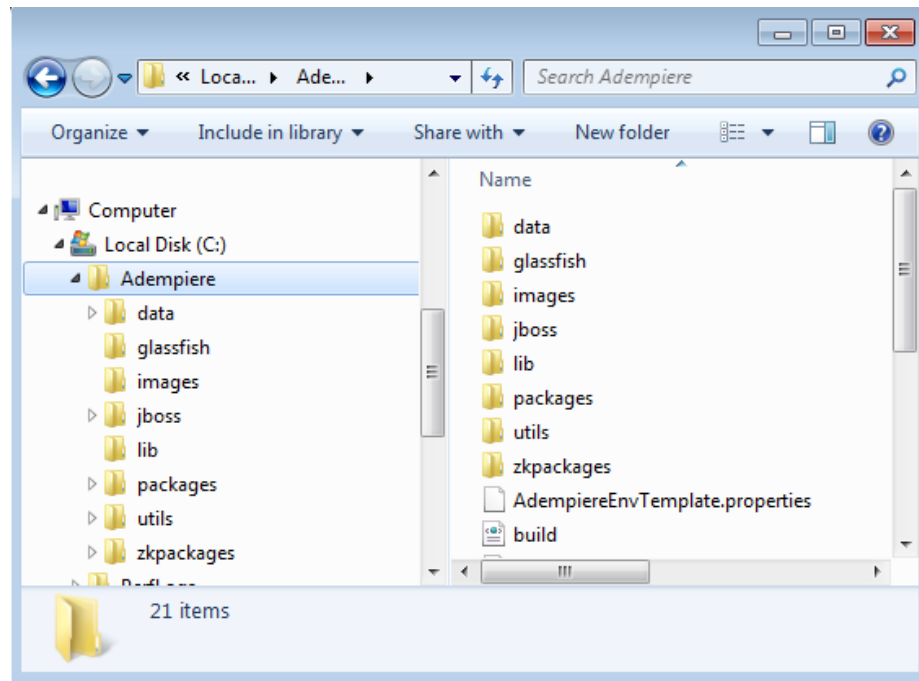


- Create an environment variable **POSTGRES\_HOME** set to the PostgreSQL install directory, for example "C:\Program Files\PostgreSQL\8.4"
- Edit the PATH variable again and add **%POSTGRES\_HOME%\bin** to the end of the path. This will make it easy to run the psql command from any directory.
- In a DOS shell, type PATH and carefully check the result to ensure the JAVA and Postgres paths are correctly added to the PATH.
- Start the PostgreSQL service. There will be a menu item in the PostgreSQL Start Menu to start the PostgreSQL service. It may already be running following the install. Check the running Services (Control Panel/Administrative Tools/Services).

# Install ADempiere



- There is no install script. Just extract the Adempiere zip file to <drive letter>:\ (e.g. c:\).



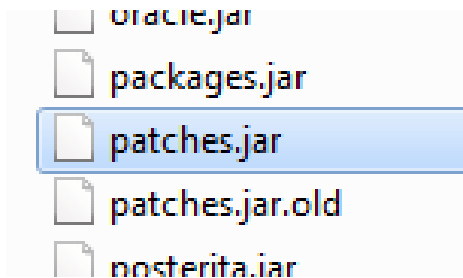
You should end up with the files in a folder like `C:\Adempiere`. **Do not extract to `C:\Program Files\Adempiere`**. The batch scripts do not like the long file names with spaces. Also make sure you haven't created a chained directory like `C:\Adempiere\Adempiere`.

## Apply Patches (Optional)



 *This step is required only if there are patches to apply*

- Download latest patch file (i.e., 20101111\_patches\_360\_14470.jar)
- Rename this file to “patches.jar”
- Navigate to C:\Adempeire\lib and replace with the new patches.jar file (backup the old file by rename it to patches.jar.old)



## Initial ADempiere Variable Setup



- A setup utility in ADempiere will prepare the software for use and create environment variables needed in the following steps.
- Navigate to **C:\Adempiere** and execute **RUN\_setup.bat**. If this is the first time you are running this, a license and security keys dialogs will appear. Accept the defaults.
- The setup dialog will appear, you may need to change the followings,
  - Database Server from <your-computer-name> to **localhost**
  - Database Type from oracleXE to **postgresql**
  - Database Name from xe to **adempiere**
  - System Password to **postgres** (or whatever you entered above for the database administrator)
  - Database Password to **adempiere**
  - Don't change anything in the Mail Server settings unless you want to set-up Adempiere for production purposes



### **You may also need to change the following:**

- *Adempiere Home to C:\Adempiere (if somehow it has been set to the wrong location)*
- *Application Server Web Port to 8080 (if 80 is being used by something else) and SSL to 8443 (instead of 443)*

# Initial ADempiere Variable Setup



- **Press the Test button.** When the Test completes without errors and the Save button (bottom, right) is activated, **click the Save button.** Wait a few minutes until the Adempiere Server Setup screen disappears and the deployment is finished.



**This step will take times!**



*The database does not have a user **adempiere** or a database **adempiere** at this point, so these tests will not be checked. The user and database will be created in the next step.*



*Every time the new patches.jar is deployed, we will need to re-execute **RUN\_setup.bat** or if no variable is changed, **RUN\_silentsetup.bat***

The screenshot shows the 'Adempiere Server Setup' window with the following configuration:

Section	Field	Value	Checked
Java	Java Home	C:\Program Files\Java\jdk1.6.0_20	<input checked="" type="checkbox"/>
	Java VM	sun	
Adempiere	Adempiere Home	C:\Adempiere	<input checked="" type="checkbox"/>
	KeyStore Password	.....	<input checked="" type="checkbox"/>
Application Server	Application Server	AD-PC	<input checked="" type="checkbox"/>
	Deployment	C:\Adempiere\jboss\server\adempiere\deploy	<input checked="" type="checkbox"/>
	Web Port	80	<input checked="" type="checkbox"/>
	Server Type	jboss	
Database Server	JNP Port	1099	<input checked="" type="checkbox"/>
	SSL	443	<input checked="" type="checkbox"/>
	Database Server	localhost	<input checked="" type="checkbox"/>
	Database Type	postgresql	
	Database Name	adempiere	<input type="checkbox"/>
	Database Search		
Mail Server	Database Port	5432	
	DB Admin Password	.....	<input checked="" type="checkbox"/>
	Database User	adempiere	
	Database Password	.....	<input type="checkbox"/>
Mail Server	Mail Server	AD-PC	<input type="checkbox"/>
	Admin EMail	info@AD-PC	
	Mail User	info	
Mail Server	Mail Password		<input type="checkbox"/>
	Test		<input type="button" value="Test"/>
			<input type="button" value="Save"/>

# Create Database “adempiere”



- Navigate to C:\Adempiere\utils
- Run the script **RUN\_ImportAdempiere.bat**
- You will see information about adempiere.dmp file (such as date creation, size, etc.) and the message: **== The import will show warnings. This is Ok ==**
- *The script will **DROP** any existing adempiere database. Do not run this command if you already have data loaded.*

```
Administrator: Import Adempiere - C:\Adempiere (adempiere)
Setting myEnvironment ....
Re-Create Adempiere User and import C:\Adempiere\data\Adempiere.dmp - <adempiere>
>
Volume in drive C has no label.
Volume Serial Number is 103D-7221

Directory of C:\Adempiere\data

06/14/2010  08:21 PM           31,580,160 Adempiere.dmp
             1 File(s)          31,580,160 bytes
             0 Dir(s)  11,867,701,248 bytes free
== The import will show warnings. This is OK ==
Press any key to continue . . .
Adempiere Database Import           $Revision: 1.3 $
Importing Adempiere DB from C:\Adempiere\data\Adempiere_pg.dmp <adempiere>
-----
Re-Create user and database
-----
CREATE ROLE
-
```

## Apply Migration Script (Optional)



*This step is required only if there are migration script to apply*

- Download latest migration script (i.e., 20101101\_migra\_360.zip)
- Expand it, you will see **\*.sql** files under **postgresql** folder. You can actually run it one by one in the command line

```
psql -f <number>.sql adempiere adempiere
```

### **OR run multiple files at once by**

- Setup a **'.pgpass'** file according to the instructions for your version of PostgreSQL (for 8.4, see [30.14. The Password File](#)). This will prevent the password entry each time you run the psql command.
- From a DOS shell, navigate to the directory where the scripts are located and execute this command:

```
FOR %N IN (*.sql) DO psql -f %N adempiere adempiere
```



# Start Application Server



- **Start the Application Server**
- Open a DOS shell Navigate to C:\Adempiere\utils Type '**RUN\_Server2.bat**' and wait for the server to fully start - it will end this phase with "INFO [Server] JBoss .... Started in xx:xx:xx ms", which will take around 2 to 3 minutes.

**CONGRATULATIONS!!!**

**The server is up and running, we shall now launch the Application**



*Leave this DOS shell running. Later, to shut down the Application Server, you can either RUN\_Server2Stop in another DOS Shell or simply close the shell.*

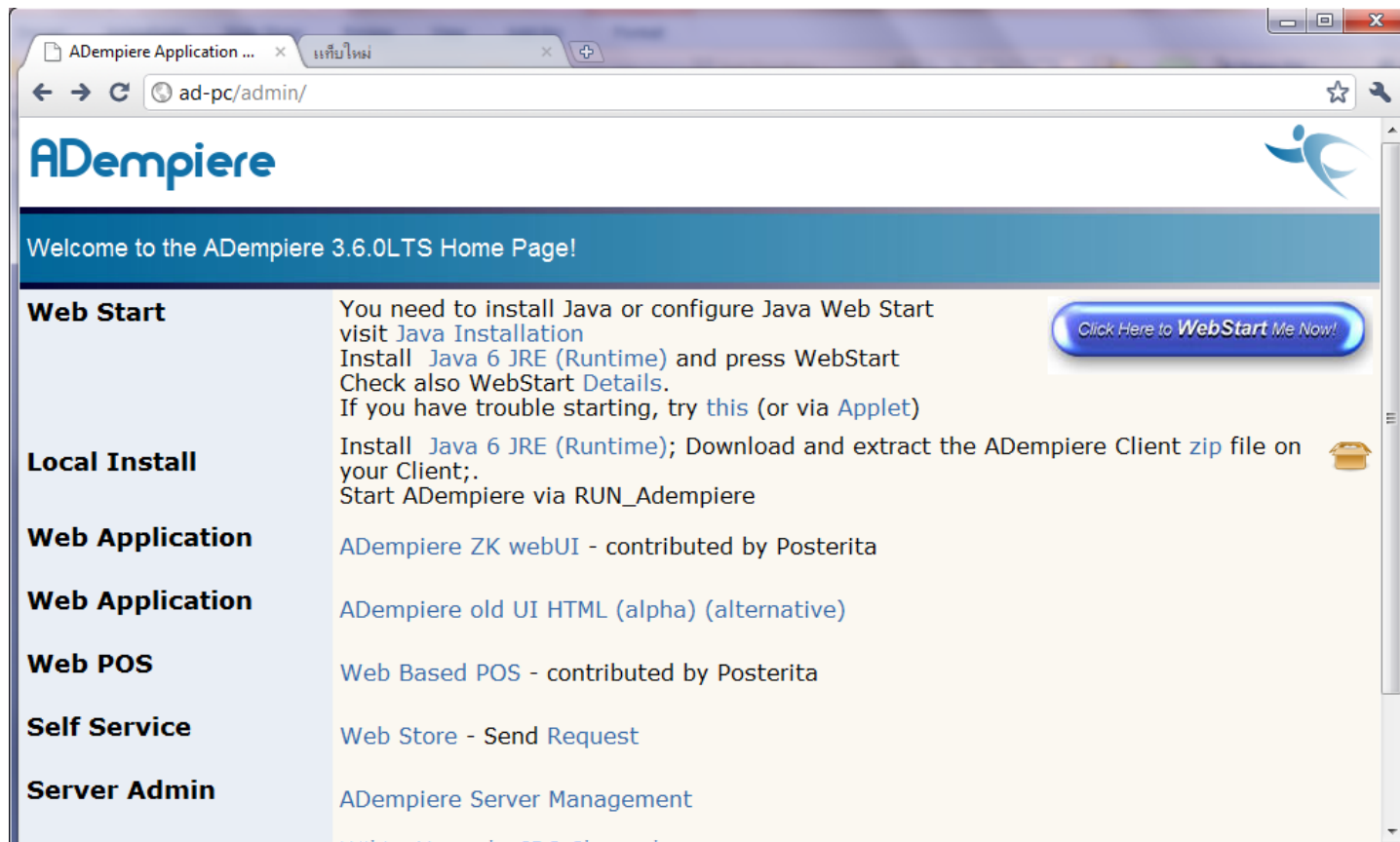


*If you would like to run the server as a service, in a DOS shell, navigate to C:\Adempiere\utils\windows and run Adempiere\_Service\_Install.bat. You will need to open the Services Window (**Control Panel**→**Administrative Tools**→**Services**) to set the properties so the service starts automatically or manually.*

# Install Client Application

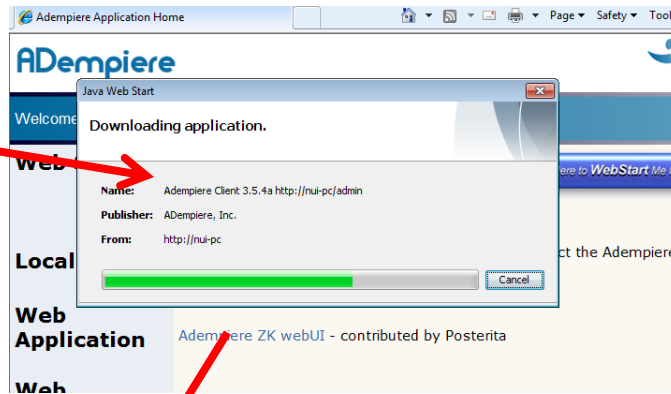


- Go to URL <http://<server>/admin>
- Click on button Web Start to download and install client application

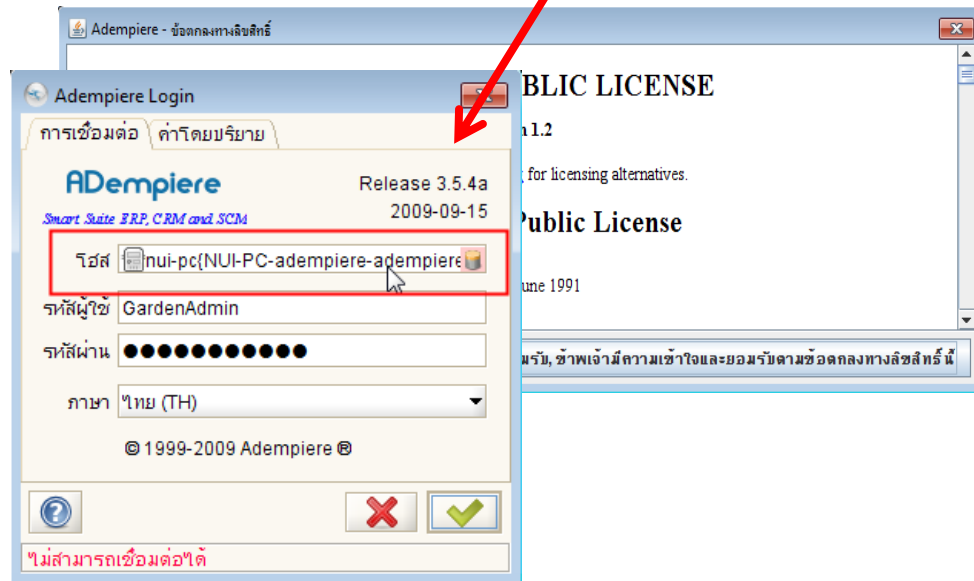


# (Behind the Scene of Client Install)

- Adempiere.jar
- AdempiereCLib.jar
- AdempiereClient.zip
- adempiereDirect.jnlp
- CompiereJasperReqs.jar
- index.html



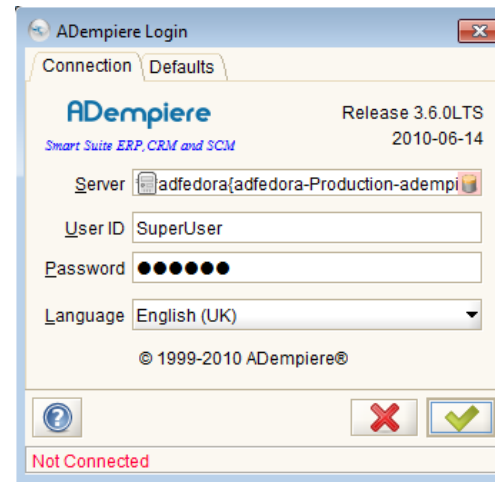
- 1) adempiereDirect.jnlp downloaded from server
- 2) Executed by javaws.exe to create client application
- 3) Necessary components and Adempiere.properties downloaded and installed on client machine
- 4) Application executed on client, note that the connection is also passed here
- 5) Shortcut is point to the server to always **INSYNC** with latest version on server 😊



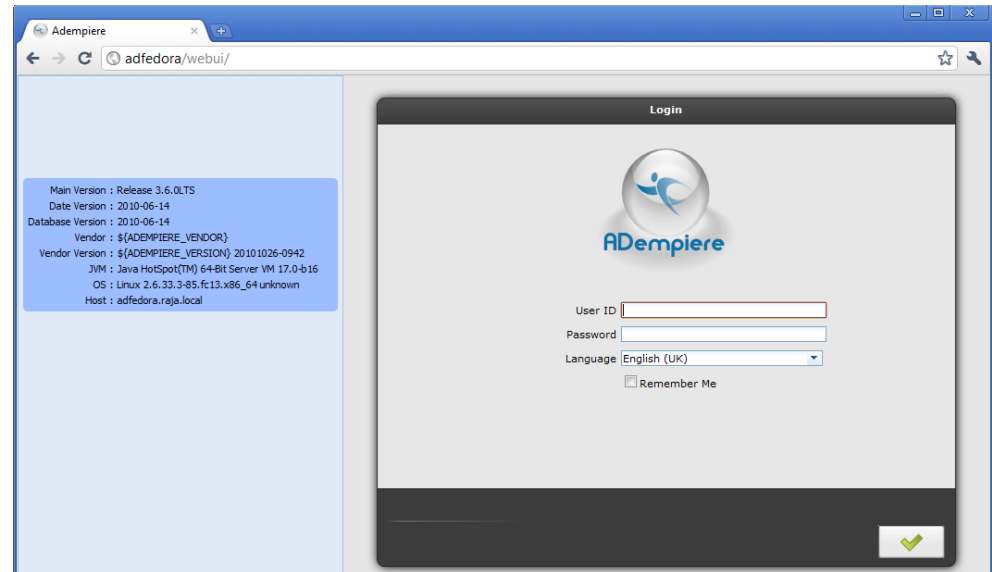
## 2 Ways to launch ADempiere



1. Through Client Application
  - Double click on Adempiere icon



2. Through Web Browser (application server must be running)
  - Open browser and go to URL <http://<server>/webui>

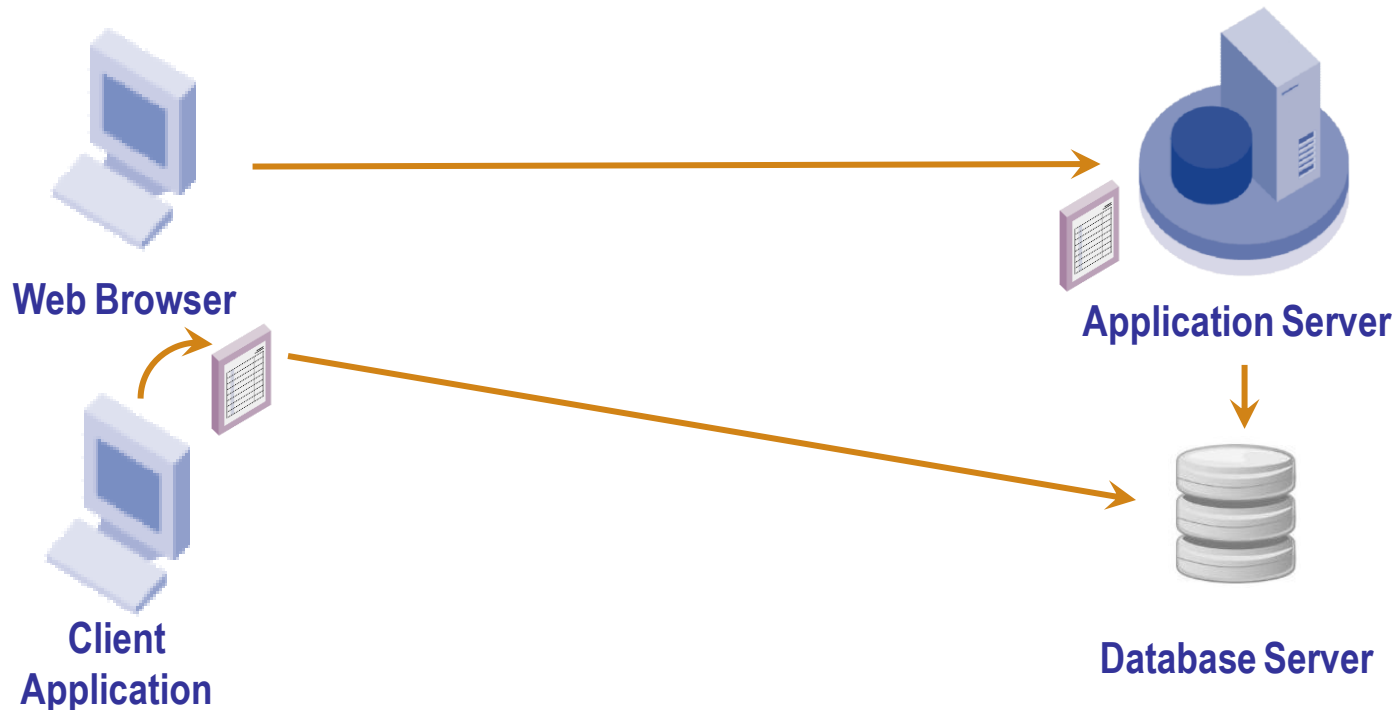


# Adempiere.properties



**Adempiere.properties** is where the connection information is being stored

- **With Client App**, it will look at C:\Users\<<name>\Adempiere.properties, which was downloaded from server during client installation
- **With Web App**, Web Server will look at server C:\Adempiere\Adempiere.properties



# Test Your Knowledge



1. What are the software component of Adempiere?
2. What is WebStart and its function?
3. What are required to migrate from older version of Adempiere to the newer Version?
4. Where the DB and Server Connection information is stored?
5. Do we need to run Application Server in order to use ADempiere?





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