

## IDEMPIERE SETUP PROCESS

### DOCUMENTATION REFERENCE SITE:

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[https://wiki.idempiere.org/en/Installing\\_iDempiere](https://wiki.idempiere.org/en/Installing_iDempiere)

### PREREQUISITES:

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For idempiere 7.1, we need the following tools & version

1. PostgreSQL 9.6
2. OpenJDK 11.0.5 [or higher]
3. Maven 3.6.0
4. Eclipse IDE
5. Tycho Build Tools & configuration.

### INSTALL OPENJDK 11:

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To install open JDK 11 run the below line in terminal

```
sudo apt-get install openjdk-11-jdk
```

### INSTALL MAVEN:

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To install maven run the below line in terminal

```
sudo apt-get install maven
```

### INSTALL ECLIPSE

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Download the eclipse from <https://www.eclipse.org/>. Eclipse information's are

Name: eclipse-jee-2019-12-R-linux-gtk-x86\_64.tar.gz

Eclipse IDE for Enterprise Java Developers. Version: 2019-12 (4.14.0)

Uncompressed and open eclipse. The first time you run Eclipse it will ask you for the workspace folder. You can use the default workspace because you will change it later,

## INSTALL TYCHO CONFIGURATOR

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Open eclipse and click to the window option at the top bar. After that:

1. Navigate to Window > Preferences
2. Navigate to Maven > Discovery
3. Click Open Catalog
4. On Find field, enter Tycho

Select Tycho Configurator, click Finish to install it and accept the terms, certificate, etc. until installed

Now eclipse can be restarted. Prerequisites are ready to receive the iDempiere source code.

## MATERIALIZE AND BUILD

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On the operating system navigate to the folder where you cloned or download the code, named above as \$IDEMPIERE\_REPOSITORY such as folder directory where the project is remaining f.e. /home/u01/project/idempiere71), and run the command:

Here idempiere71 is the folder name of the idempiere project and path is /home/u01/project/

Using terminal go to the project folder and run the below commend with terminal

```
cd $HOME/project/idempiere71
mvn verify
```

If the materialize failed, then try again till it goes build successful. If it failed again and again then please check the code or download the code again. Don't go for the next step if it builds is not successful.

## IMPORT PROJECTS IN ECLIPSE

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After open eclipse do the following:

- Change the eclipse workspace where the project folder remaining like
  - Following the example here this folder would be \$HOME/ u01/project/idempiere71
- Turn off Project > Build automatically
- Navigate to File > Import
- Navigate to Maven > Existing Maven Projects
- Click Next button and Browse to \$IDEMPIERE\_REPOSITORY (must appear there by default)
  - Following the example here this folder would be \$HOME/ u01/project/idempiere71

- Check the java version is selected openJDK 11 or after import, can check and change if not selected openJDK 11
- All projects must appear selected, click Finish to complete the import
  - ✓ At the end all projects are loaded into workspace
  - ✓ Not required, is a personal preference, but normally I switch now to Java perspective and choose to Working Sets as the Top Level Elements
- After importing eclipse create some changes to the workspace, you can discard those changes at this point via right click on the projects and choosing Replace With > HEAD Revision

## WORKSPACE SETTINGS

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1. In eclipse, navigate to Window > Preferences > General > Workspace
2. set "Text file encoding" to "UTF-8" (if default is different)
3. set "New text file line delimiter" to "Unix" (if default is different)
4. navigate to Window > Preferences > Java > Compiler
5. set Java > Compiler > Compiler compliance level to "11"

\*\*\* **Note:** Normally this option is selected by default but if not then do this

## SET TARGET PLATFORM

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1. Still in eclipse
2. Navigate to File > Import
3. Navigate to General > Existing Projects into Workspace
4. Click Next button and Browse to \$IDEMPHERE\_REPOSITORY/org.idempiere.p2.targetplatform
5. Click Finish to complete the import
6. Now open the file org.idempiere.p2.targetplatform.target within the project just imported  
org.idempiere.p2.targetplatform
  - ✓ This is the default target platform definition with remote url
  - ✓ Here eclipse takes some time downloading the required dependencies, till that wait for a while.
7. At Target Editor, click the "Set as Active Target Platform" link
8. Wait for Eclipse to finish downloading bundles onto target platform
  - ✓ Click the "Reload" button if some download fail, until there are not red errors on the Locations list
9. At the end you can enabled back Project > Build automatically
10. Restart eclipse in order to do a clean build

After do this process if the eclipse project with idempiere still have errors like java compiler, java version, maven version etc. then again starts with new eclipse and do the same process.

This problem occurs for:

After transferred source code or modified code folder from one pc to another pc some reference is not workable or sometimes reference is there but plugins not downloaded after clicking Set as Active Target Platform or Reload Target Platform or plugins are already existing but not suited for some reason since the project is transferred from

pc to pc. To ignore this issues best way to uncompressed eclipse again and follow the process again. Another problem may be arising for eclipse version. So please check the eclipse version.

## CONFIGURING

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To run iDempiere from within Eclipse you need to configure first the parameters, this is done running a preconfigured application called install.app

1. Open Eclipse
2. Navigate to Run > Run Configurations > Eclipse Application
3. Select install.app and push the "Run" button
4. Fill the mandatory information like java home, idempiere home, application server, database server, database name, database type, database port.
  - ✓ Can ignore DB Admin Password and Database Password if already exists else
  - ✓ DB Admin Password: this box can be left empty when the DB Already Exists is marked. If you want to fill it then it must be filled with the postgres password, if you don't know which is please refer to postgres documentation about how to set it up
  - ✓ Database Password: here we fill with the password you provided when created the adempiere user
5. Click test to test and if everything is fine then save.

## RUNNING SERVER

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To run the server in eclipse:

1. Navigate to Run > Run Configurations > Eclipse Application
2. Select server.product and push the "Run" button

After a very quick start you can navigate in your preferred browser to the address <http://localhost:8080/> (or the given application server and application port you selected when the configuration or installation)

## BUILDING IDEMPIERE WITHOUT ECLIPSE

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On the operating system navigate to the folder where you cloned or download the code, named above as \$IDEMPIERE\_REPOSITORY such as folder directory where the project is remaining f.e. /home/u01/project/idempiere71), and run the command:

Here idempiere71 is the folder name of the idempiere project and path is /home/u01/project/

Using terminal go to the project folder and run the below commend with terminal

```
mvn verify -U
```

After this step the uncompressed servers can be found at:

```
# linux 64 bit version
$sources_path/project/ideMPIERE71/org.ideMPIERE.p2/target/products/
org.adempiere.server.product/linux/gtk/x86_64

# windows 64 bit version
$sources_path/project/ideMPIERE71/org.ideMPIERE.p2/target/products/
org.adempiere.server.product/win32/win32/x86_64
```

You can compress those folders with your preferred compressor to use them as installers.