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# Local environment setup

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Use these steps to setup your local environment

- Install software (as necessary)
  - Configure software
  - Do git checkout
  - Do maven build
  - Do eclipse import
  - Run in local application server
- 
- Install Software
    - JDK 1.8
    - Maven 3.3.9 (or latest)
    - Git V 1.9.4
    - Apache Tomcat 8.5
    - Eclipse Neon
  - Configure software
    - JDK (no specific configuration)
    - Maven (see settings file in config/maven/settings.xml in git repository)
    - Apache Tomcat 8.5 (No specific settings)
    - Eclipse Neon
      - Configure JDK
      - Configure Maven
      - Configure Server Run Time (Tomcat)
  - Do git checkout
    - Create directory d:\workspace
    - CD d:\workspace
    - Run this command:
      - `git clone https://github.com/caprepo/googlecloudpoc.git`
      - This will create a directory googlecloudpoc and put all the files under this.
  - Do maven build
    - Check maven version (make sure mvn.bat is in PATH)
    - `mvn -version`
    - From this directory d:\workspace\googlecloudpoc, run this command:
      - `mvn clean install`

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- The first time, it will download a big set of libraries and dump them into a maven repository
- This repository is mentioned in settings.xml as D:\Repo
- If everything goes well, the war file will get created in the target directory
- Do eclipse import
  - Open eclipse Neon and do base setup
    - Do JDK setup (Window, Preferences, Java, Installed JREs, here you have to delete JRE and add JDK 1.8)
    - Do Maven setup (Window, Preferences, Maven, Installations, choose your maven installation)
    - Do App Server Setup (Window, Preferences, Server, Runtime Environment, Add Apache Tomcat 8.5)
  - Now start importing
    - Click on File -> Import > Existing Maven projects
    - Choose the directory d:\workspace\googlecloudpoc
    - Click OK and the project should get imported
- Run on local application server
  - You can run the application within eclipse or separately in an application server
  - Within eclipse
    - Switch to debug mode
    - Under servers, add a new application server (Tomcat 8.5)
    - Add the importbills application
    - Start the application
    - Test using <http://localhost:8080/importbills-web/>
  - Within application server
    - Copy the war to the \$TOMCAT\_Home/webapps directory
    - Start the server by double-clicking on \$TOMCAT\_HOME/bin/startserver.bat
    - The application should get deployed
    - Test using <http://localhost:8080/importbills-web/>

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