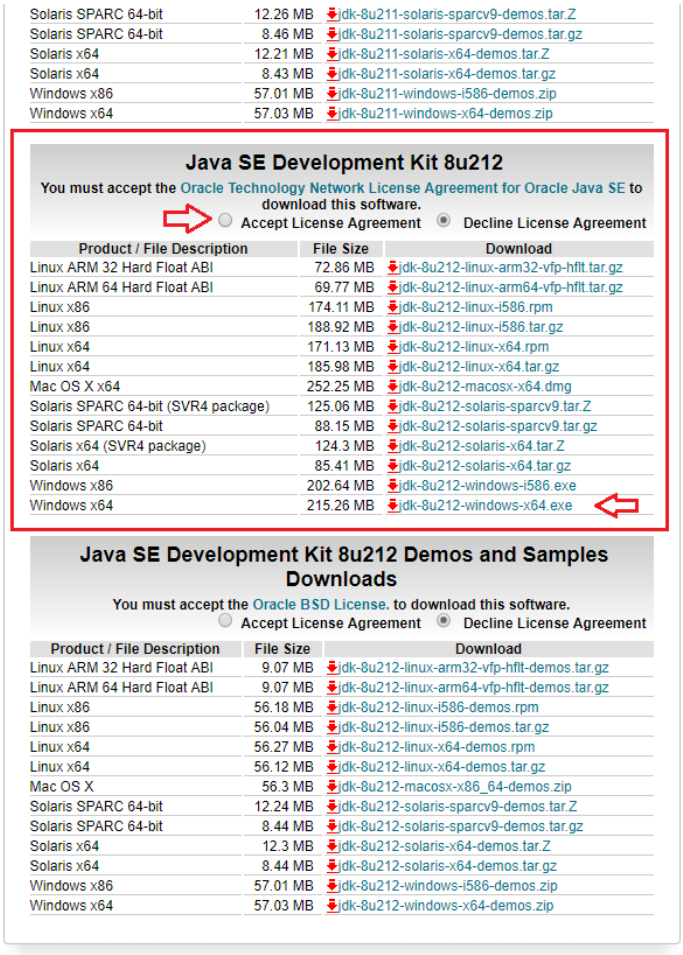
How to Setup/Install: JDK 8.212, Glassfish Server, & Apache NetBeans

Step 1: Download Java Development Kit 8 from Oracle:

https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html



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Java SE Development Kit 8u212

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Linux ARM 32 Hard Float ABI	72.86 MB	jdk-8u212-linux-arm32-vfp-hflt.tar.gz
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Solaris SPARC 64-bit (SVR4 package)	125.06 MB	jdk-8u212-solaris-sparcv9.tar.Z
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Linux x86	56.18 MB	jdk-8u212-linux-i586-demos.rpm
Linux x86	56.04 MB	jdk-8u212-linux-i586-demos.tar.gz
Linux x64	56.27 MB	jdk-8u212-linux-x64-demos.rpm
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Solaris SPARC 64-bit	12.24 MB	jdk-8u212-solaris-sparcv9-demos.tar.Z
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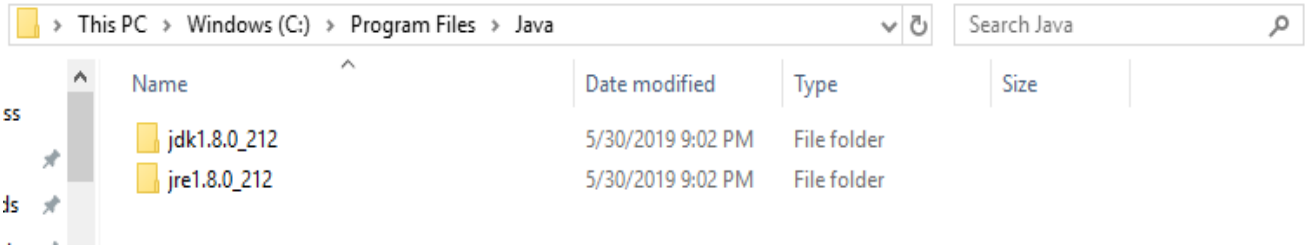
Windows x86	57.01 MB	jdk-8u212-windows-i586-demos.zip
Windows x64	57.03 MB	jdk-8u212-windows-x64-demos.zip

For this download you will be required to make an Oracle account. Create one, accept the license agreement and download. I highly recommend having a folder on your desktop with all the downloaded files.

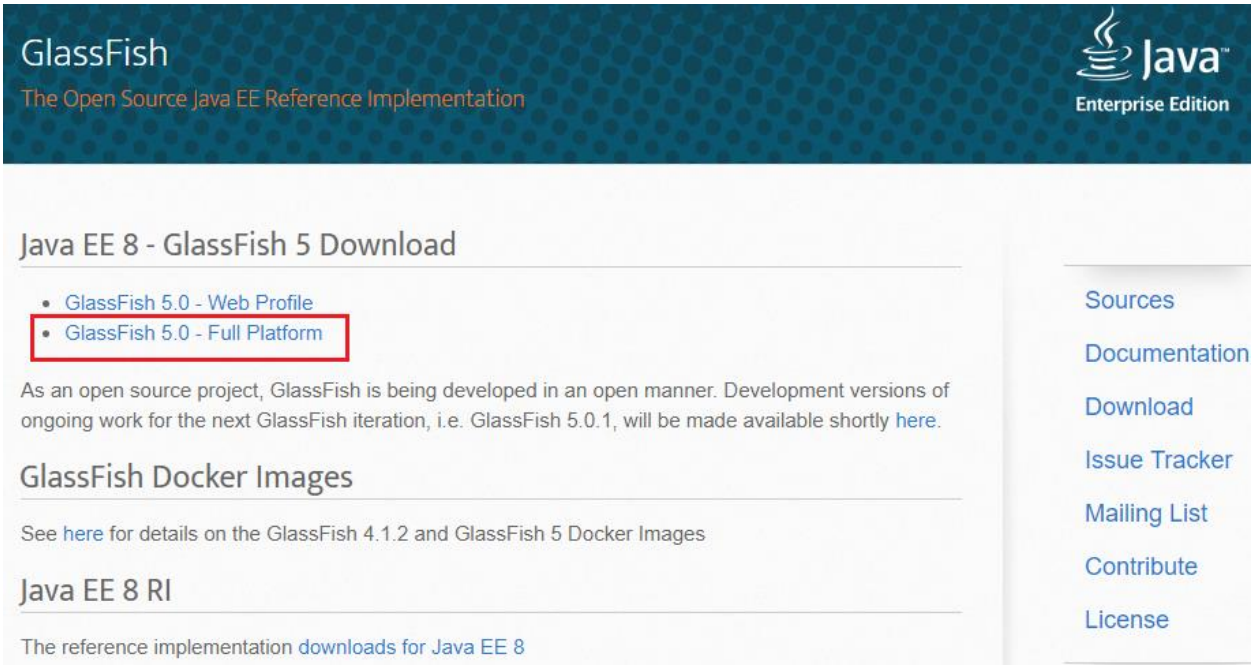
Step 2: Run/Install the JDK-8u212 installation application and follow the prompts. You can install this under all the default preferences if you'd like. Once installed it should be under *Program Files* > *Java* and you should see the following:



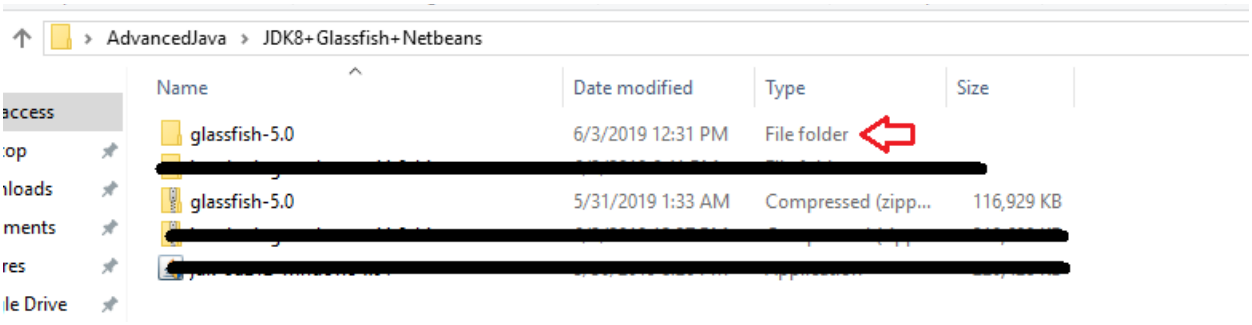
If you have multiple Java files installed you will see other versions of Java there.

Step 3: Download GlassFish 5 (current latest version):

https://javaee.github.io/glassfish/download



Make sure to install the Full Platform. Once installed drag the .zip file to your preferred directory (i.e.: the folder that I recommended making on your desktop). Once you've dragged it there unzip the contents in that folder and you will get the following:

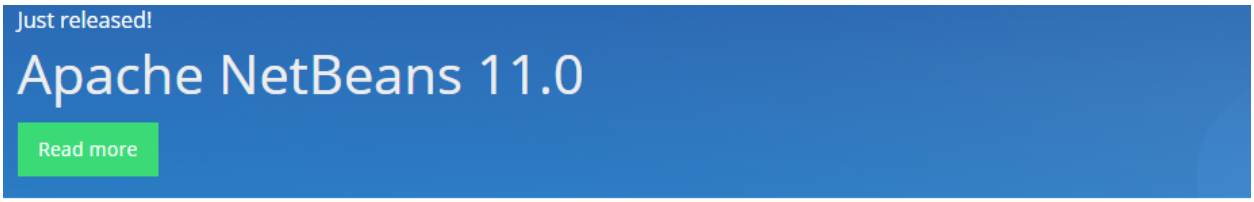


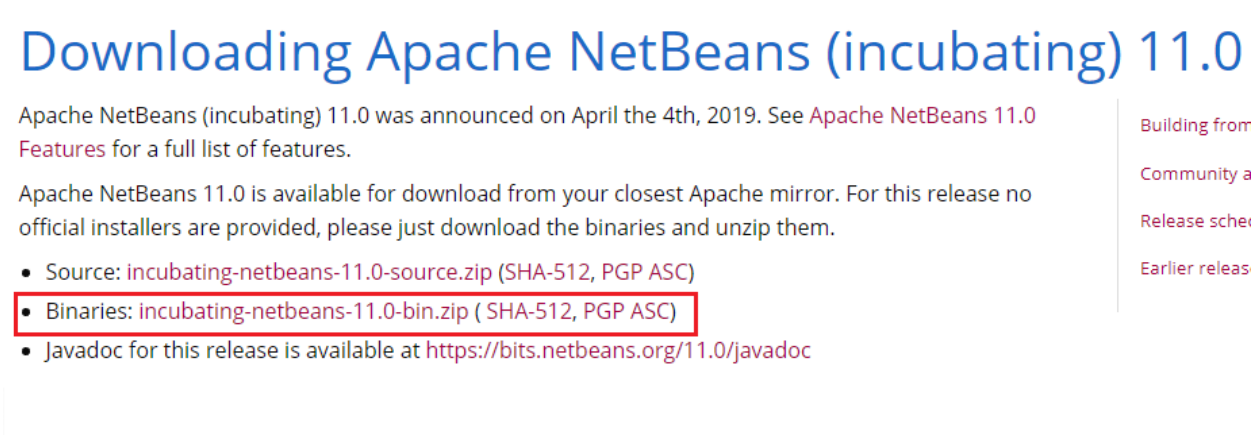
Note where you have the unzipped file, that's where you will reference it when creating the server in NetBeans.

Step 4: Download Apache NetBeans 11.0 IDE (current latest version):

https://netbeans.apache.org/download/index.html

On the download page of NetBeans 11.0 you want to install the 'Binaries" of NetBeans not the Source:

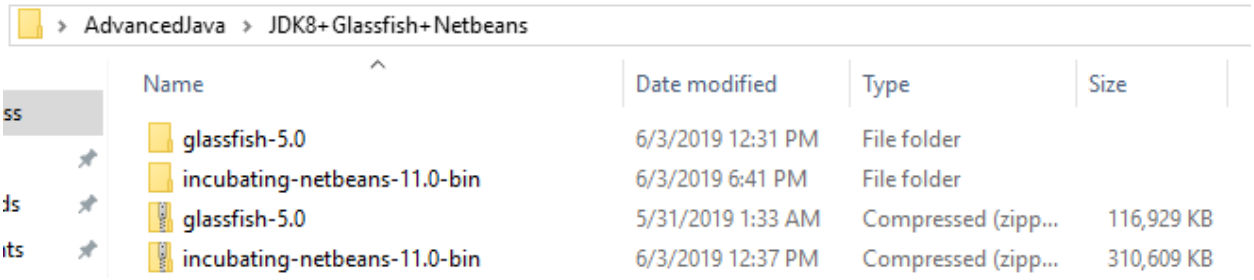




Here is a link for the direct download of NetBeans 11:

http://www.gtlib.gatech.edu/pub/apache/incubator/netbeans/incubating-netbeans/incubating-11.0/incubating-netbeans-11.0-bin.zip

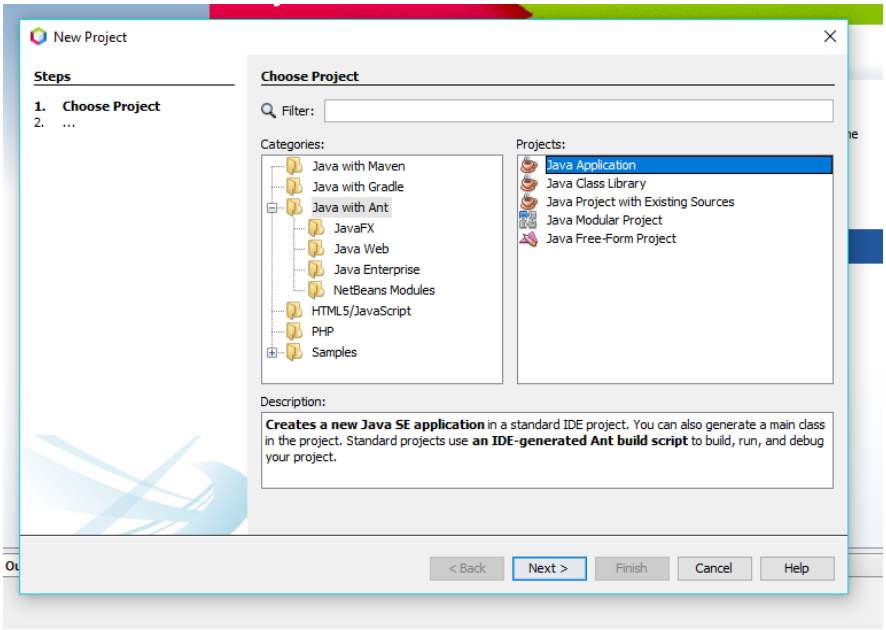
Once installed drag the zip to the same folder that you had your GlassFish 5 and unzip the NetBeans folder there. Once you've done so you'll have the following:



From there open the unzipped incubating-netbeans-11.0-bin folder: Navigate to netbeans > bin then create a shortcut for netbeans64 and put it on your desktop (or wherever you want that's easily accessible). That is how you will open NetBeans.

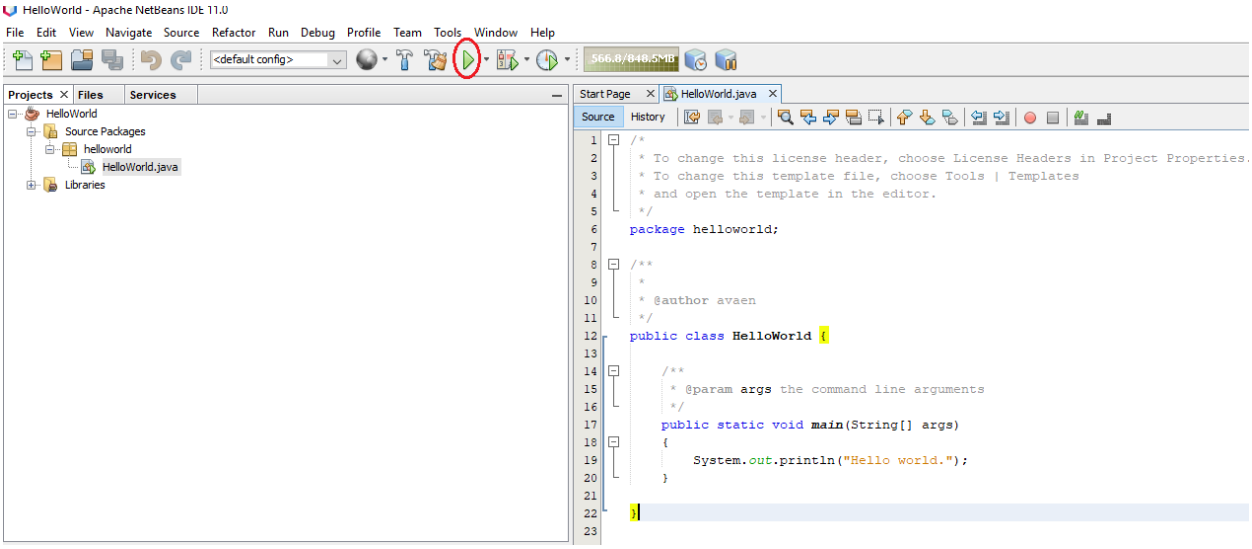
Step 5: Create a test HelloWorld Java application:

On the top left click on File > New Project and click on Java with Ant → Java Application:



It may be grayed out for you (for me it isn't since I've already ran this one time and installed the necessary updates/plugins). If it is grayed out just click the 'Next >' button and install all the required things to make it work.

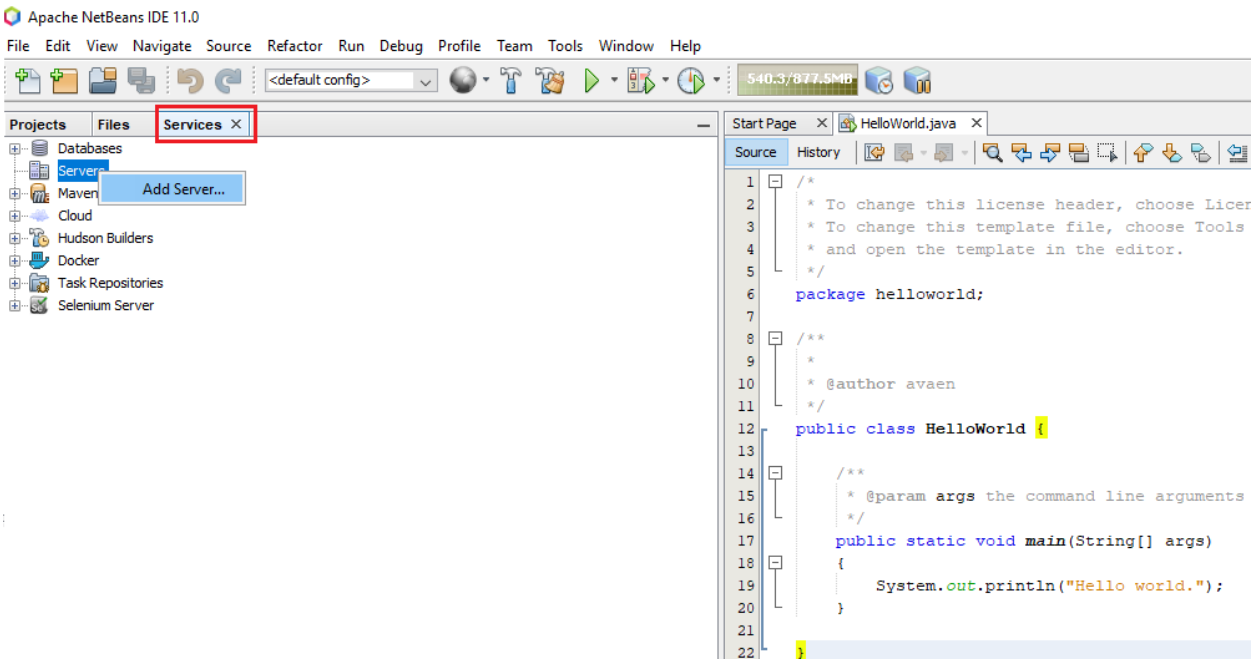
Once you've created it, make a simple Hello World application and test run it with the green play button on the top left.



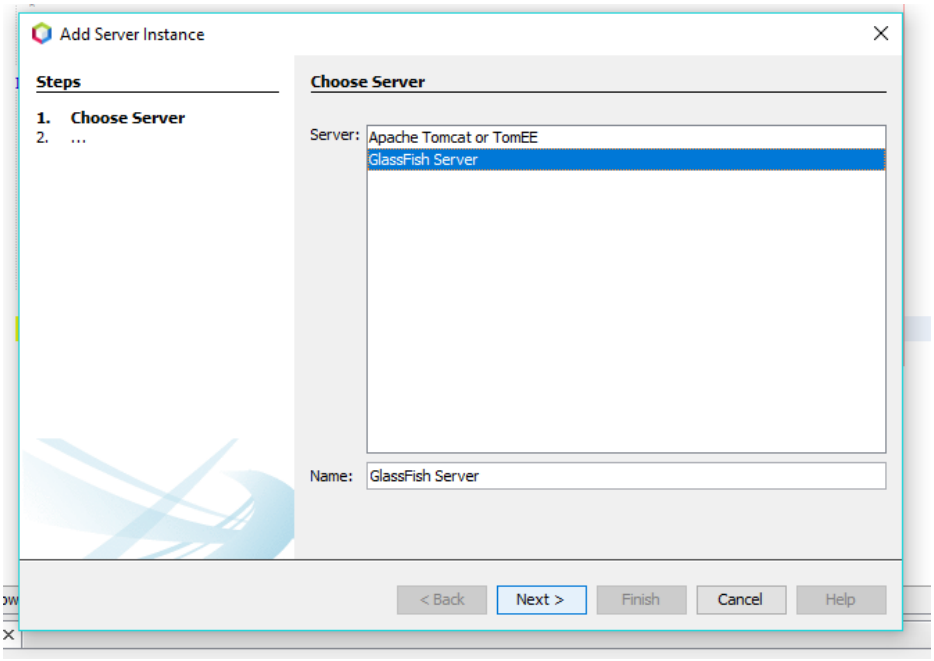
Your output will be on the bottom console.

Step 6: Get GlassFish 5 server up and running:

On the right where you see the *Projects*, *Files* and *Services* tab click on *Services* and look for *Servers*. Right click *Servers* and click *Add Server…*



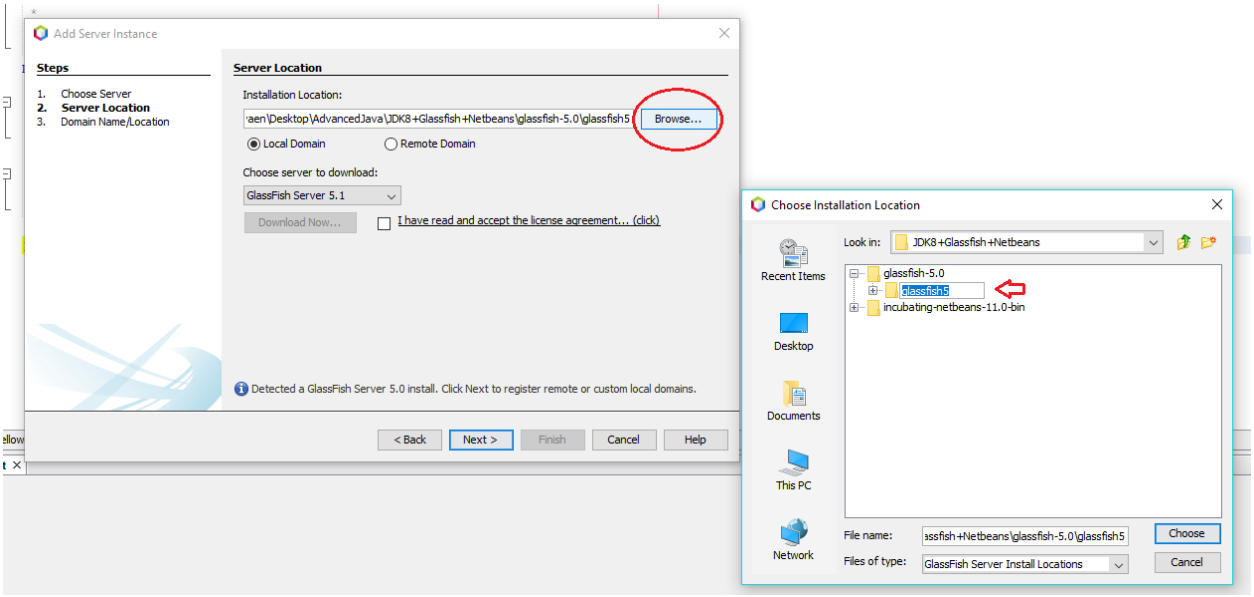
On the *Add Server Instance* window click *GlassFish Server* then *Next >*



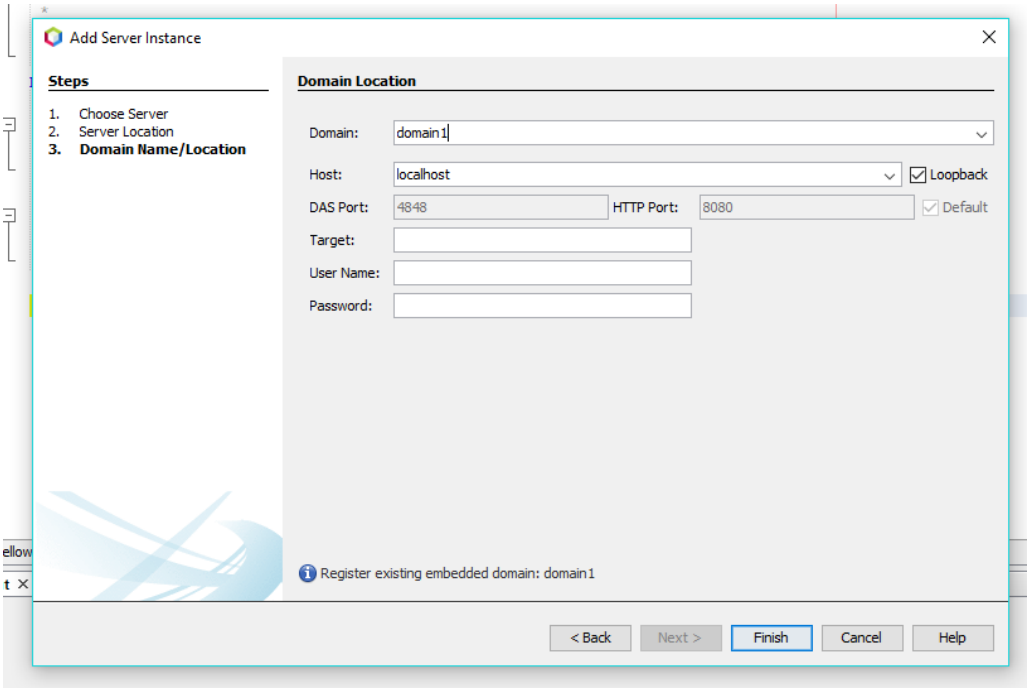
Download and Activate whatever feature is needed for the server setup. In this case I needed to activate support for Java Web, Java EE, JavaScript Parse and HTML5 features.

It will install plugins as well. I had to install the Oracle JS Parse Implementation. Install anything it needs to make it work. Follow the prompts.

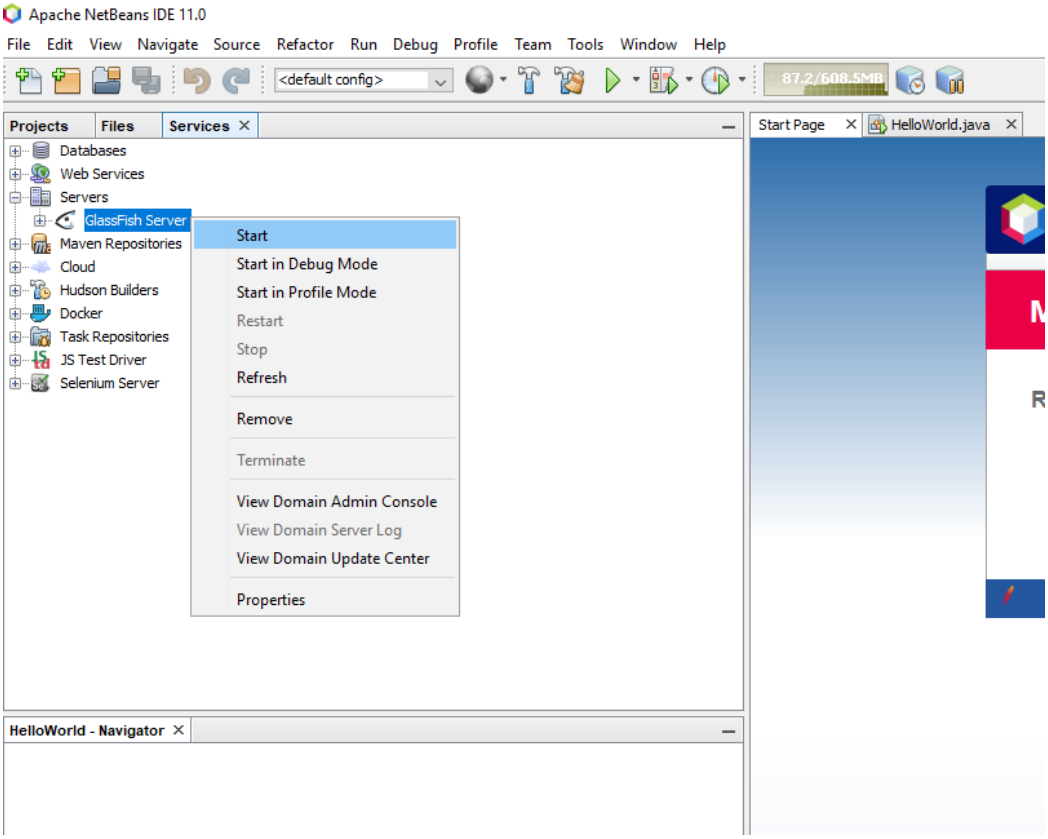
Once you have done that you will be at a page where you need to choose your server. Under *Installation Location:* browse to where you had the unzipped GlassFish 5 folder. In my case it was on a folder on my desktop.



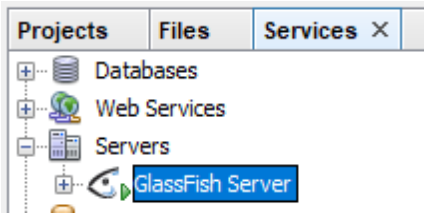
Select *Local Domain* (you can also select remote domain <u>if</u> you have a remote server but in this case our server is on our machine). Click 'Next >'. As for Domain Location you can keep the domain name and host the way it is. There is no need for a target, username or password. Once completed, click *Finish.*



Now if you expand the *Servers* tab you'll see GlassFish Server underneath it. Right click it and click *Start.*

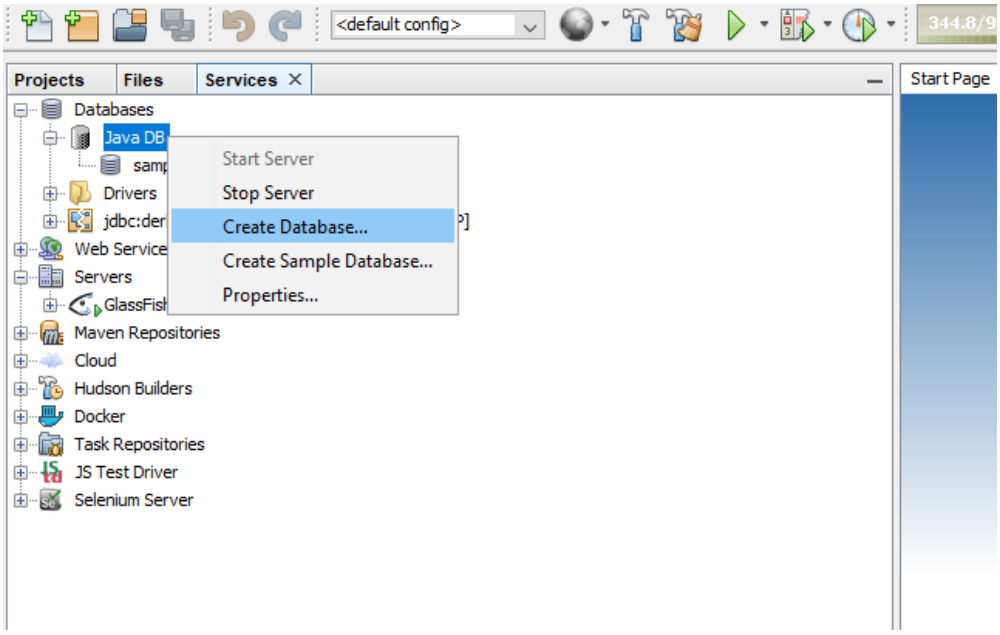


If you get a Windows Security Alert saying that Windows Defender Firewall has blocked some features of this app just click Allow access. Next you should see a green play button next to your GlassFish server indicating that it is indeed running.

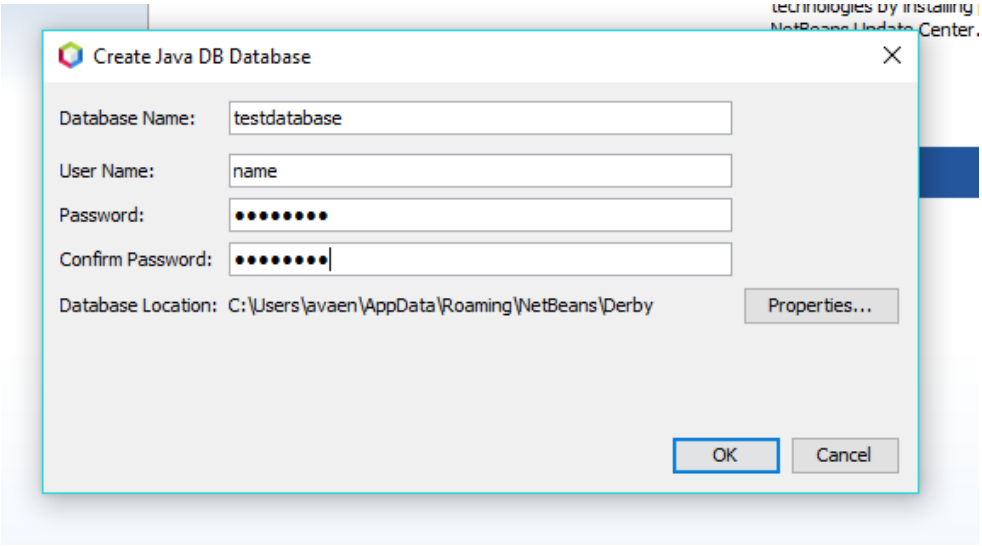


Step 7: Create a Java DB and execute some SQL commands:

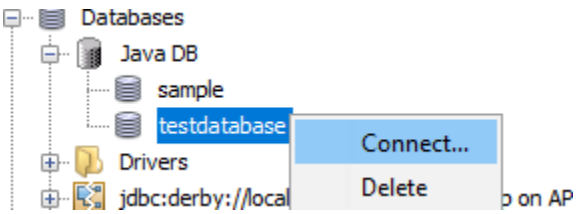
Under *Services* you should see *Databases*, expand that and you should see *Java DB* database, if you expand that further you'll see a database called *sample*. You can ignore that, right click Java DB and click on *Create Database…*



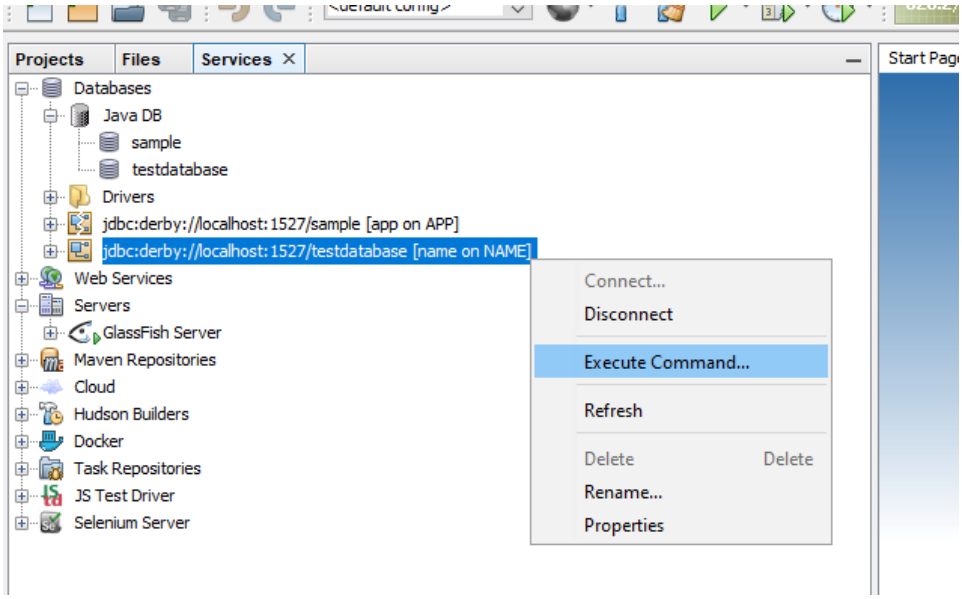
Once you have done that you will be prompted to provide a Database Name, User Name and Password. You can make it whatever you want, in my case I made the name testdatabase and the username and password name, and password respectively.



Once you have done that, right click your new database and click *Connect*.



You should now see a connection underneath Databases. Right click that and click *Execute Command*:



Once you have done that you can start writing some SQL commands on the newly open .sql file. The *Run Statement* button will run the SQL command that you highlight or wherever your cursor ends. The button next to that will run all of the SQL commands in your file. It is highly recommended to run each statement one at a time.