Database setup

* Create a database if not exists. (eg : bytewheels)
* Restore default data from the dump file.

Create a domain in glassfish domains

* Create a domain if not exixts.(eg : bytewheels)

$ cd <absolute\_path>/payara-4.1.1.164/glassfish/bin

$ ./asadmin create-domain bytewheels

[Enter admin user name [Enter to accept default "admin" / no password]>]

Hit Enter without entering password if you **don’t** need a password

$ ./asadmin start-domain bytewheels

Add settings to server

* Add the mysql connection jar file (mysql-connector.jar) into the domain library folder (if not yet added) (<GLASSFISH\_HOME>/domains/<DOMAIN>/lib)
* Access the admin console of your server. (http://localhost:4848/)
* Login as admin. [The password that you entered while creating the domain. If password is empty it will login directly]

Add a data source

* Navigate to Resources > JDBC > JDBC Connection Pools in left panel.
* Add a connection pool by clicking on 'New' button on the main panel.
* Specify name : bytewheels\_pool
* Resource type : javax.sql.DataSource
* Database driver vendor : In the combobox, select MySQL
* Go to next step by clicking on the 'Next' button on the top right corner.
* Change values for the following properties (check the letter case) in the 'Additional properties' list in the next page (add the properties if not present), and delete all the other properties.
  + DatabaseName : <DB Name> (Eg : bytewheels)
  + Port : 3306
  + User : <USERID> (Eg : root)
  + Password: <PASSWORD> (Eg : password)
  + ServerName : 127.0.0.1 (localhost)
  + URL : jdbc:mysql://:3306/<DB Name>?useUnicode=true&characterEncoding=UTF-8

Note : Parameters appended to connection URL useUnicode=true&characterEncoding=UTF-8 allows support for internationationalization when persisting data to database.

Click on Finish button and then double click on bytewheels\_pool that we created recently.

* Click on the 'Ping' button to test if the connection pool is working.
* Save the changes to create connection pool.
* Now create a JDBC Resource by going to Resources > JDBC > JDBC Resources.
* Add a Resource by clicking on 'New' button on the main panel.
* Specify name : <ds\_name>(bytewheels\_ds). ‘bytewheels\_ds’ will be the Data source name(case sensitive).
* Pool name : Select the pool that have you already created (bytewheels\_pool).
* Click on 'OK' on right top corner to create the JDBC Resource.

Configuring logging property (optional)

* Refer -<https://blogs.oracle.com/naman/entry/configure_log4j_for_use_in>