Setting up your Database on Onyx

1. Run the following command in the command line on onyx (this cannot be run on the nodes) replace the REPLACEME text with a password to use for the database. Do not use you onyx password:

```
make_sandbox /opt/mysql/mysql-5.7.20-linux-glibc2.12-x86_64.tar.gz --
--check_port -p REPLACEME
```

2. You will get the following text. There will be a different port, home directory, and password listed. Answer yes to the question when prompted.

```
[benjaminpeterson@onyx ~]$ make_sandbox /opt/mysql/mysql-5.7.20-
linux-glibc2.12-x86_64.tar.gz -- --check_port -p temp
unpacking /opt/mysql/mysql-5.7.20-linux-glibc2.12-x86_64.tar.gz
Executing low_level_make_sandbox --basedir=/opt/mysql/5.7.20 \
        --sandbox_directory=msb_5_7_20 \
        --install_version=5.7 \
        --sandbox_port=5720 \
        --no_ver_after_name \
        --check_port \
        -p \
        temp \
        --my_clause=log-error=msandbox.err
    The MySQL Sandbox,  version 3.2.15
    (C) 2006-2017 Giuseppe Maxia
Installing with the following parameters:
upper_directory                = /home/BENJAMINPETERSON/sandboxes
sandbox_directory              = msb_5_7_20
sandbox_port                   = 5721
check_port                     = 1
no_check_port                  =
datadir_from                   = script
install_version                = 5.7
basedir                        = /opt/mysql/5.7.20
tmpdir                         =
my_file                        =
operating_system_user          = benjaminpeterson
db_user                        = msandbox
remote_access                  = 127.%
bind_address                   = 127.0.0.1
ro_user                        = msandbox_ro
rw_user                        = msandbox_rw
repl_user                      = rsandbox
```

```
db_password                     = temp
repl_password                   = rsandbox
my_clause                       = log-error=msandbox.err
init_options                    =
init_my_cnf                     =
init_use_cnf                    =
master                          =
slaveof                         =
high_performance                =
gtid                            =
pre_start_exec                  =
pre_grants_exec                 =
post_grants_exec                =
pre_grants_sql                  =
post_grants_sql                 =
pre_grants_file                 =
post_grants_file                =
load_plugin                     =
plugin_mysqlx                   =
mysqlx_port                     =
expose_dd_tables                =
custom_mysqld                   =
prompt_prefix                   = mysql
prompt_body                     =  [\h] {\u} (\d) >
force                           =
no_ver_after_name               = 1
verbose                         =
load_grants                     = 1
no_load_grants                  =
no_run                          =
no_show                         =
keep_uuid                       =
history_dir                     =
do you agree? ([Y],n) Y
# Starting server
. sandbox server started
# Loading grants
Your sandbox server was installed in $HOME/sandboxes/msb_5_7_20
```

3. Note the sandbox_port in the above listing. This will be the port that you use to connect to your database through mysql workbench.

4. Your new database will be stored in `/home/username/sandboxes/msb_5_7_20/`

5. In the msb_5_7_20 directory there is a README file. Please read it to understand the different

commands that can be run in for database. NOTE: the clear command will delete all database information. DO NOT use it if you care about what is in the database.

6. To connect to your database using MySQL Workbench do the following:
   a) Launch MySQL Workbench by running the following command in the command line: mysql-workbench (must be run on onyx and not on the nodes)
   b) Once it has launched click the + next to MySQL Connections.
   c) Entering the following information in the Setup New Connection window. Leave the rest of the boxes with the defaults:
      Connection Name: CS410 Database (you can call this whatever you would like)
      Port: Port provided during installation
      Username: msandbox
   d) Press the Test Connection button. Click the Connect Anyway button.
   e) Enter the password you setup during installation. You should get a successful test if the information is correct.
   f) Press OK to save the connection.

7. Click on your new connection name to access the database.