

CSUN DATABASE ENVIRONMENTS - SETUP INSTRUCTIONS

INTRODUCTION

Use these instructions to use CSUN's Basic Database Environment. If you already have a MySQL instance and would like to migrate it to the Basic Environment, view the Migration Instructions document at <http://www.csun.edu/sites/default/files/dbenv-basic-migrate.pdf>.

For additional help, a MySQL reference manual is available at <http://dev.mysql.com/doc/refman/5.1/en/index.html>.

Creating a MySQL Database on the Basic Database Server

1. Using the SSH client on your machine, open an SSH session and connect to the following Host:
 - mysqlbasic.csun.edu
2. Login with your CSUN user ID and password.
3. Create a mysql_data directory inside your home directory:
 - mkdir mysql_data
4. You will need to know the full path to this new data directory. To find your working directory type:
 - pwd
 The system will respond with a directory path. For example:
 - /home/users3/sample123
5. To install mysql for your account, switch to the mysql directory:
 - cd /usr/local/mysql
6. Run the following (provide your CSUN account and directory path):
 - ./scripts/mysql_install_db --user=**yourAccountHere** --datadir=**yourDirectoryHere**/mysql_data/
7. To change back to your home directory, use the following command:
 - cd
8. Select a port number to connect to your instance. To see the ports that are already in use, enter the following command:
 - netstat -an | grep LISTEN | grep tcp
 Here is some sample output:

```

tcp        0      0 0.0.0.0:34048          0.0.0.0:*             LISTEN
tcp        0      0 0.0.0.0:897           0.0.0.0:*             LISTEN
tcp        0      0 0.0.0.0:55555         0.0.0.0:*             LISTEN
tcp        0      0 0.0.0.0:111           0.0.0.0:*             LISTEN
tcp        0      0 0.0.0.0:50000         0.0.0.0:*             LISTEN

```

You will see a list of used ports. Use any port within the 50000 to 59999 range UNLESS you see that port in the output from the netstat command. Please remember this number.

Administering a MySQL Database on the Basic Database Server

1. Your MySQL instance is ready for use. To start your MySQL instance in safe mode, enter the following with the port that you selected. For --socket (used for connecting from this server) we recommend naming it with your CSUN account name (all 3 lines are separate but make up one command):

- `/usr/local/mysql/bin/mysqld_safe --socket=/tmp/yourAccountHere_mysql.sock \
--port=yourPortNumber --datadir=yourDirectoryHere/mysql_data/ \
--pid-file=yourDirectoryHere/mysql_data/mysql_pid &`

You should see some output similar to the following:

```
[1] 6019  
$ 100512 11:37:23 mysqld_safe Logging to '/home/users3/sample123/mysql_data//firefish.csun.edu.err'.  
100512 11:37:24 mysqld_safe Starting mysqld daemon with databases from /home/users3/sample123/mysql_data/
```

Press Enter to return to the prompt. There should be a log file in the mysql_data directory ending in **.err** that you can review for any issues. You can also check by running the following command:

- `/usr/local/mysql/bin/mysqladmin version --socket=/tmp/yourAccountHere_mysql.sock`
2. To log in to your MySQL instance:
 - `mysql --socket=/tmp/yourAccountHere_mysql.sock -u root`
 3. At this point we strongly recommend creating a password for the root user:
 - `SET PASSWORD FOR 'root'@'localhost' = PASSWORD ('yourPasswordHere');`
 4. To exit MySQL instance, use the quit command.
 5. To access your instance in the future, use your password and the following:
 - `/usr/local/mysql/bin/mysql --socket=/tmp/yourAccountHere_mysql.sock -u root -p`

The following is a list of other useful commands:

- To shutdown your MySQL daemon:
`/usr/local/mysql/bin/mysqladmin shutdown --socket=/tmp/yourAccountHere_mysql.sock
-u root -p`
- Other basic MySQL commands (once you have logged into your instance using `/usr/local/mysql/bin/mysql`):
`show databases;
use dbname;
show tables;`

NEED HELP?

Contact the IT Help Center by phone (818-677-1400), online at (<http://techsupport.csun.edu>) or in person in (Oviatt Library, Room 33). You can also contact your local technical support staff (<http://www.csun.edu/it/ctscontacts.html>).