cgl@www:/$ echo "Now on web server. Going to test mysql connections from web server to mysql server."
Now on web server. Going to test mysql connections from web server to mysql server.
cgl@www:/$
cgl@www:/$ mysql -h database.dsutux.us -u sanders -p
The program 'mysql' can be found in the following packages:
  * mysql-client-core-5.5
  * mariadb-client-core-5.5
  * mysql-client-core-5.6
  * percona-xtradb-cluster-client-5.5
Try: sudo apt-get install <selected package>
cgl@www:/$
cgl@www:/$ sudo apt-get install mysql-client
cgl@www:/$ echo "Now try the mysql command line client again."
Now try the mysql command line client again.
cgl@www:/$
cgl@www:/$ mysql -h database.dsutux.us -u sanders -p
Enter password:
ERROR 1130 (HY000): Host 'www.dsutux.us' is not allowed to connect to this MySQL server

cgl@www:/$
This doesn't look like a network connection issue, but we'll check the port connection anyway.
cgl@www/$ telnet database.dsutux.us 3306
Trying 144.38.214.137...
Connected to database.dsutux.us.
Escape character is '^]'.
Host 'www.dsutux.us' is not allowed to connect to this MySQL server
Connection closed by foreign host.
cgl@www/$
cgl@www/$
cgl@www/$ echo "As we expected, the networking is fine. But mysqld is rejecting us. Why?"
As we expected, the networking is fine. But mysqld is rejecting us. Why?
cgl@www/$
Back on the mysql server. Let's examine the permissions in the database management system.
cgl@database:/$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 39
Server version: 5.5.38-0ubuntu0.14.04.1 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use mysql;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql>
### Table 1: User, Host, Password

<table>
<thead>
<tr>
<th>User</th>
<th>Host</th>
<th>Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>root</td>
<td>localhost</td>
<td>*FC4513D581A6F8A26D6B8852C0AB64C79751EEBD</td>
</tr>
<tr>
<td>root</td>
<td>database</td>
<td>*FC4513D581A6F8A26D6B8852C0AB64C79751EEBD</td>
</tr>
<tr>
<td>root</td>
<td>127.0.0.1</td>
<td>*FC4513D581A6F8A26D6B8852C0AB64C79751EEBD</td>
</tr>
<tr>
<td>root</td>
<td>::1</td>
<td>*FC4513D581A6F8A26D6B8852C0AB64C79751EEBD</td>
</tr>
<tr>
<td>debian-sys-maint</td>
<td>localhost</td>
<td>*8E289D5BC30F8942482854AE91D5D4DBD4C2A841</td>
</tr>
<tr>
<td>sanders</td>
<td>localhost</td>
<td>*3BB5ED2D73E081891952698D94C3D442F32B9FE</td>
</tr>
<tr>
<td>thomas</td>
<td>localhost</td>
<td>*B8E6A67694A887AE57F98B41008F17069A888F6A</td>
</tr>
</tbody>
</table>

7 rows in set (0.00 sec)

### Table 2: User, Host, Db

<table>
<thead>
<tr>
<th>User</th>
<th>Host</th>
<th>Db</th>
</tr>
</thead>
<tbody>
<tr>
<td>sanders</td>
<td>localhost</td>
<td>kfc</td>
</tr>
<tr>
<td>thomas</td>
<td>localhost</td>
<td>wendys</td>
</tr>
</tbody>
</table>

2 rows in set (0.00 sec)
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> GRANT ALL PRIVILEGES ON kfc.* TO 'sanderson@www.dsutux.us' IDENTIFIED BY '24spices';
Query OK, 0 rows affected (0.00 sec)
mysql>
```sql
SELECT User, Host, Db FROM db;
```

```
<table>
<thead>
<tr>
<th>User</th>
<th>Host</th>
<th>Db</th>
</tr>
</thead>
<tbody>
<tr>
<td>sanders</td>
<td>localhost</td>
<td>kfc</td>
</tr>
<tr>
<td>thomas</td>
<td>localhost</td>
<td>wendys</td>
</tr>
<tr>
<td>sanders</td>
<td><a href="http://www.dsutux.us">www.dsutux.us</a></td>
<td>kfc</td>
</tr>
</tbody>
</table>
```

3 rows in set (0.00 sec)
mysql> SELECT User, Host, Password FROM user;

<table>
<thead>
<tr>
<th>User</th>
<th>Host</th>
<th>Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>root</td>
<td>localhost</td>
<td>*FC4513D581A6F8A26D6B8852C0AB64C79751EEBD</td>
</tr>
<tr>
<td>root</td>
<td>database</td>
<td>*FC4513D581A6F8A26D6B8852C0AB64C79751EEBD</td>
</tr>
<tr>
<td>root</td>
<td>127.0.0.1</td>
<td>*FC4513D581A6F8A26D6B8852C0AB64C79751EEBD</td>
</tr>
<tr>
<td>root</td>
<td>::1</td>
<td>*FC4513D581A6F8A26D6B8852C0AB64C79751EEBD</td>
</tr>
<tr>
<td>debian-sys-maint</td>
<td>localhost</td>
<td>*8E289D5BC30F89424B2854AE91D5D4DBD42A841</td>
</tr>
<tr>
<td>sanders</td>
<td>localhost</td>
<td>*3BB5EDD2D73E081891952698D94C3D442F32B9FE</td>
</tr>
<tr>
<td>thomas</td>
<td>localhost</td>
<td>*B8E6A67694A887AE57F98B41008F17069A888F6A</td>
</tr>
<tr>
<td>sanders</td>
<td><a href="http://www.dsutux.us">www.dsutux.us</a></td>
<td>*3BB5EDD2D73E081891952698D94C3D442F32B9FE</td>
</tr>
</tbody>
</table>

8 rows in set (0.00 sec)

mysql>
cgl@www:/$ echo "Back on the webserver to test connection again."
Back on the webserver to test connection again.
cgl@www:/$
cgl@www:/$ mysql -h database.dsutux.us -u sanders -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \\
g.
Your MySQL connection id is 40
Server version: 5.5.38-0ubuntu0.14.04.1 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use kfc;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SHOW TABLES;
+---------------------+
| Tables_in_kfc        |
+---------------------+
| recipe               |
+---------------------+
1 row in set (0.00 sec)

mysql> SELECT * FROM recipe;
+-----+
| x   |
| 51  |
| 42  |
| 19  |
+-----+
3 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> quit
Bye

cgl@www:/$
cgl@www:/$ echo "OK. www can connect to mysql for the kfc database."
OK. www can connect to mysql for the kfc database.
cgl@www:/$