

Sometimes it is necessary to update a MySQL user's password in case an application is out of sync with the database. The steps below show this with Mirth not being able to connect to MySQL and updating the password resolving the issue.

Attempt to start Mirth but it fails:

```
[jason.keppler@sdvmcctest02 ~]$ sudo service mirthconnect status
```

The daemon is stopped.

```
[jason.keppler@sdvmcctest02 ~]$ sudo service mirthconnect start
```

```
Starting mirthconnect (via systemctl):          [ OK ]
```

```
[jason.keppler@sdvmcctest02 ~]$ sudo service mirthconnect status
```

The daemon is running.

```
[jason.keppler@sdvmcctest02 ~]$ sudo service mirthconnect status ]
```

The daemon is stopped.

Reviewing the Mirth log shows access to the database is denied.

```
[jason.keppler@sdvmcctest02 ~]$ cd /opt/mirthconnect/logs [FAILED]
```

```
[jason.keppler@sdvmcctest02 logs]$ ls
```

mirth.log

```
[jason.keppler@sdvmcctest02 logs]$ tail mirth.log
```

```
ERROR 2017-11-30 09:29:34,967 [Thread-2] com.mirth.connect.server.Mirth:  
Error establishing connection to database, aborting startup. Access denied for  
user 'mirth'@'sdvmcctest02.medsphere.com' (using password: YES)
```

**INFO 2017-11-30 09:29:34,970 [Thread-4] com.mirth.connect.server.Mirth:
shutting down mirth due to normal request**

**ERROR 2017-11-30 13:21:28,022 [Thread-2] com.mirth.connect.server.Mirth:
Error establishing connection to database, aborting startup. Access denied for
user 'mirth'@'sdvmcctest02.medsphere.com' (using password: YES)**

**INFO 2017-11-30 13:21:28,023 [Thread-4] com.mirth.connect.server.Mirth:
shutting down mirth due to normal request**

Checking the mirth properties we confirm the user/password used
is mirth/mirth

```
[jason.keppler@sdvmcctest02 logs]$ cd ../conf
```

```
[jason.keppler@sdvmcctest02 conf]$ more mirth.properties
```

Mirth Connect configuration file

directories

dir.appdata = appdata

dir.tempdata = temp

ports

http.port = 7070

https.port = 7071

jmx.port = 1099

password requirements

password.minlength = 0

password.minupper = 0

password.minlower = 0

password.minnumeric = 0

password.minspecial = 0

password.retrylimit = 0

password.lockoutperiod = 0

password.expiration = 0

password.graceperiod = 0

password.reuseperiod = 0

password.reuselimit = 0

keystore

keystore.path = \${dir.appdata}/keystore.jks

keystore.storepass = abc12345

keystore.keypass = abc12345

keystore.type = JCEKS

default truststore

truststore.path = \${dir.appdata}/truststore.jks

truststore.storepass = abc12345

server

http.contextpath = /

server.url =

jmx.password = admin

http.host = 0.0.0.0

https.host = 0.0.0.0

jmx.host = localhost

options: derby, mysql, postgres, oracle, sqlserver2000, sqlserver

#database = derby

examples:

Derby jdbc:derby:\${dir.base}/mirthdb;create=true

PostgreSQL jdbc:postgresql://localhost:5432/mirthdb

MySQL jdbc:mysql://localhost:3306/mirthdb

Oracle jdbc:oracle:thin:@localhost:1521:DB

SQLServer jdbc:jtds:sqlserver://localhost:1433/mirthdb

#database.url = jdbc:derby:\${dir.base}/mirthdb;create=true

if using a custom driver, specify it here

#database.driver =

database credentials

#database.username =

#database.password =

database=mysql

database.url = jdbc:mysql://sdvmctest02.medsphere.com:3306/mirthdb

database.username=mirth

database.password=mirth

#database.password=PDVb777SVK6Fa4hL

We will now access MySQL and update the password for the mirth user to mirth.

```
[jason.kepler@sdvmctest02 conf]$ mysql -u root -p
```

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 82

Server version: 5.5.56-MariaDB MariaDB Server

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

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

```
MariaDB [(none)]> use mirthdb;
```

Reading table information for completion of table and column names

You can turn off this feature to get a quicker startup with -A

```
MariaDB [mirthdb]> UPDATE mysql.user SET Password=PASSWORD('mirth')  
WHERE User='mirth';
```

Query OK, 2 rows affected (0.00 sec)

Rows matched: 2 Changed: 2 Warnings: 0

```
MariaDB [mirthdb]> flush privileges;
```

Query OK, 0 rows affected (0.00 sec)

```
MariaDB [mirthdb]> quit
```

Bye

Start Mirth and confirm it stays running

```
[jason.kepler@svmcctest02 conf]$ sudo service mirthconnect status
```

The daemon is stopped.

```
[jason.kepler@svmcctest02 conf]$ sudo service mirthconnect start
```

```
Starting mirthconnect (via systemctl): ^[[A [ OK ]
```

```
[jason.kepler@svmcctest02 conf]$ sudo service mirthconnect status
```

The daemon is running.

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

The daemon is running.

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

The daemon is running.

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

The daemon is running.

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

The daemon is running.

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

The daemon is running.

```
[jason.keppler@sdvmcctest02 conf]$ [ OK ]
```

```
MariaDB [(none)]> use mirthdb
```

```
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

MariaDB [mirthdb]> select user,host,password from mysql.user;

```
+-----+-----+-----+
| user | host          | password  |
+-----+-----+-----+
| root | localhost     |           |
| root | sdvmcctest01.medsphere.com |           |
| root | 127.0.0.1     |           |
| mirth | localhost     | 71c6222f451f632d |
| mirth | sdvmcctest01.medsphere.com | 71c6222f451f632d |
| price | localhost     | 7fdb78a90c3e9f23 |
| price | %             | 7fdb78a90c3e9f23 |
| fdb   | localhost     | 7c729079259a1bfc |
| fdb   | %             | 7c729079259a1bfc |
+-----+-----+-----+
```

9 rows in set (0.05 sec)

MariaDB [mirthdb]> exit

Bye

[jason.keppler@sdvmcctest02 conf]\$ more mirth.properties

Mirth Connect configuration file

directories

dir.appdata = appdata

dir.tempdata = temp

ports

http.port = 7070

https.port = 7071

jmx.port = 1099

password requirements

password.minlength = 0

password.minupper = 0

password.minlower = 0

password.minnumeric = 0

password.minspecial = 0

password.retrylimit = 0

password.lockoutperiod = 0

password.expiration = 0

password.graceperiod = 0

password.reuseperiod = 0

password.reuselimit = 0

keystore

keystore.path = \${dir.appdata}/keystore.jks

keystore.storepass = abc12345

keystore.keypass = abc12345

keystore.type = JCEKS

default truststore

truststore.path = \${dir.appdata}/truststore.jks

truststore.storepass = abc12345

server

http.contextpath = /

server.url =

jmx.password = admin

http.host = 0.0.0.0

https.host = 0.0.0.0

jmx.host = localhost

options: derby, mysql, postgres, oracle, sqlserver2000, sqlserver

#database = derby

examples:

Derby jdbc:derby:\${dir.base}/mirthdb;create=true

PostgreSQL jdbc:postgresql://localhost:5432/mirthdb

MySQL jdbc:mysql://localhost:3306/mirthdb

Oracle jdbc:oracle:thin:@localhost:1521:DB

SQLServer jdbc:jtds:sqlserver://localhost:1433/mirthdb

#database.url = jdbc:derby:\${dir.base}/mirthdb;create=true

if using a custom driver, specify it here

#database.driver =

database credentials

#database.username =

#database.password =

database=mysql

database.url = jdbc:mysql://sdvmcctest02.medsphere.com:3306/mirthdb

database.username=mirth

database.password=mirth

#database.password=PDVb777SVK6Fa4hL

[jason.keppler@sdvmcctest02 conf]\$ sudo su mirth -l

Last login: Thu Nov 30 13:18:46 PST 2017 on pts/2

```
[mirth@sdvmcctest02 ~]$ cd /opt/mirthconnect/conf/
```

```
[mirth@sdvmcctest02 conf]$ vi mirth.properties
```

```
[mirth@sdvmcctest02 conf]$ exit
```

```
logout
```

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

```
The daemon is stopped.
```

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect start
```

```
Starting mirthconnect (via systemctl):          [ OK ]
```

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

```
The daemon is running.
```

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

```
The daemon is stopped.
```

```
[jason.keppler@sdvmcctest02 conf]$ cd logs          [FAILED]
```

```
-bash: cd: logs: No such file or directory
```

```
[jason.keppler@sdvmcctest02 conf]$ cd ../logs
```

```
[jason.keppler@sdvmcctest02 logs]$ tail mirth.log
```

```
ERROR 2017-11-30 09:29:34,967 [Thread-2] com.mirth.connect.server.Mirth:  
Error establishing connection to database, aborting startup. Access denied for  
user 'mirth'@'sdvmcctest02.medsphere.com' (using password: YES)
```

```
INFO 2017-11-30 09:29:34,970 [Thread-4] com.mirth.connect.server.Mirth:  
shutting down mirth due to normal request
```

ERROR 2017-11-30 13:21:28,022 [Thread-2] com.mirth.connect.server.Mirth: Error establishing connection to database, aborting startup. Access denied for user 'mirth'@'sdvmcctest02.medsphere.com' (using password: YES)

INFO 2017-11-30 13:21:28,023 [Thread-4] com.mirth.connect.server.Mirth: shutting down mirth due to normal request

ERROR 2017-11-30 13:25:09,007 [Thread-2] com.mirth.connect.server.Mirth: Error establishing connection to database, aborting startup. Access denied for user 'mirth'@'sdvmcctest02.medsphere.com' (using password: YES)

INFO 2017-11-30 13:25:09,008 [Thread-4] com.mirth.connect.server.Mirth: shutting down mirth due to normal request

[jason.keppler@sdvmcctest02 logs]\$ mysql -u root -p

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 85

Server version: 5.5.56-MariaDB MariaDB Server

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> select user,host,password from mysql.user;

```
+-----+-----+-----+
| user | host          | password |
+-----+-----+-----+
```

root	localhost		
root	sdvmcctest01.medsphere.com		
root	127.0.0.1		
mirth	localhost	71c6222f451f632d	
mirth	sdvmcctest01.medsphere.com	71c6222f451f632d	
price	localhost	7fdb78a90c3e9f23	
price	%	7fdb78a90c3e9f23	
fdb	localhost	7c729079259a1bfc	
fdb	%	7c729079259a1bfc	

+-----+-----+-----+

9 rows in set (0.00 sec)

```
MariaDB [(none)]> UPDATE mysql.user SET
Host='sdvmcctest02.medsphere.com' WHERE
Host='sdvmcctest01.medsphere.com' AND User='mirth';
```

Query OK, 1 row affected (0.09 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
MariaDB [(none)]> UPDATE mysql.db SET Host='sdvmcctest02.medsphere.com'
WHERE Host='sdvmcctest01.medsphere.com' AND User='mirth';
```

Query OK, 1 row affected (0.22 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [(none)]> FLUSH PRIVILEGES;

Query OK, 0 rows affected (0.02 sec)

MariaDB [(none)]> exit

Bye

[jason.keppler@sdvmcctest02 logs]\$ sudo service mirthconnect status

The daemon is stopped.

[jason.keppler@sdvmcctest02 logs]\$ sudo service mirthconnect start

Starting mirthconnect (via systemctl): [OK]

[jason.keppler@sdvmcctest02 logs]\$ sudo service mirthconnect status

The daemon is running.

[jason.keppler@sdvmcctest02 logs]\$ sudo service mirthconnect status

The daemon is stopped.

[jason.keppler@sdvmcctest02 logs]\$ ls

mirth.log

[jason.keppler@sdvmcctest02 logs]\$ tail mirth.log

**ERROR 2017-11-30 09:29:34,967 [Thread-2] com.mirth.connect.server.Mirth:
Error establishing connection to database, aborting startup. Access denied for
user 'mirth'@'sdvmcctest02.medsphere.com' (using password: YES)**

**INFO 2017-11-30 09:29:34,970 [Thread-4] com.mirth.connect.server.Mirth:
shutting down mirth due to normal request**

ERROR 2017-11-30 13:21:28,022 [Thread-2] com.mirth.connect.server.Mirth: Error establishing connection to database, aborting startup. Access denied for user 'mirth'@'sdvmcctest02.medsphere.com' (using password: YES)

INFO 2017-11-30 13:21:28,023 [Thread-4] com.mirth.connect.server.Mirth: shutting down mirth due to normal request

ERROR 2017-11-30 13:25:09,007 [Thread-2] com.mirth.connect.server.Mirth: Error establishing connection to database, aborting startup. Access denied for user 'mirth'@'sdvmcctest02.medsphere.com' (using password: YES)

INFO 2017-11-30 13:25:09,008 [Thread-4] com.mirth.connect.server.Mirth: shutting down mirth due to normal request

ERROR 2017-11-30 13:29:14,790 [Thread-2] com.mirth.connect.server.Mirth: Error establishing connection to database, aborting startup. Access denied for user 'mirth'@'sdvmcctest02.medsphere.com' (using password: YES)

INFO 2017-11-30 13:29:14,791 [Thread-4] com.mirth.connect.server.Mirth: shutting down mirth due to normal request

[jason.keppler@sdvmcctest02 logs]\$ mysql -u mirth -p mirth

Enter password:

ERROR 1045 (28000): Access denied for user 'mirth'@'localhost' (using password: NO)

[jason.keppler@sdvmcctest02 logs]\$ mysql -u mirth -p

Enter password:

ERROR 1045 (28000): Access denied for user 'mirth'@'localhost' (using password: YES)

[jason.keppler@sdvmcctest02 logs]\$ mysql -u mirth -p

Enter password:

ERROR 1045 (28000): Access denied for user 'mirth'@'localhost' (using password: YES)

```
[jason.kepler@svmcctest02 logs]$ mysql -u mirth -p
```

Enter password:

ERROR 1045 (28000): Access denied for user 'mirth'@'localhost' (using password: NO)

```
[jason.kepler@svmcctest02 logs]$ mysql -u root -p
```

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 92

Server version: 5.5.56-MariaDB MariaDB Server

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

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

```
MariaDB [(none)]> select user,host,password from mysql.user;      +-----  
+-----+-----+  
| user | host          | password |  
+-----+-----+-----+  
| root | localhost    |          |  
| root | sdvmcctest01.medsphere.com |          |  
| root | 127.0.0.1    |          |
```

```
| mirth | localhost          | 71c6222f451f632d |
| mirth | sdvmcctest02.medsphere.com | 71c6222f451f632d |
| price | localhost          | 7fdb78a90c3e9f23 |
| price | %                   | 7fdb78a90c3e9f23 |
| fdb   | localhost          | 7c729079259a1bfc |
| fdb   | %                   | 7c729079259a1bfc |
+-----+-----+-----+
9 rows in set (0.00 sec)
```

```
MariaDB [(none)]> UPDATE mysql.user SET Host='%' WHERE
Host='sdvmcctest02.medsphere.com' AND User='mirth';
```

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
MariaDB [(none)]> UPDATE mysql.db SET Host='%' WHERE
Host='sdvmcctest02.medsphere.com' AND User='mirth';
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
MariaDB [(none)]> FLUSH PRIVILEGES;
```

Query OK, 0 rows affected (0.00 sec)

MariaDB [(none)]> select user,host,password from mysql.user; +-----

```
+-----+-----+
| user | host          | password      |
+-----+-----+-----+
| root | localhost     |               |
| root | sdvmcctest01.medsphere.com |           |
| root | 127.0.0.1     |               |
| mirth | localhost     | 71c6222f451f632d |
| mirth | %             | 71c6222f451f632d |
| price | localhost     | 7fdb78a90c3e9f23 |
| price | %             | 7fdb78a90c3e9f23 |
| fdb   | localhost     | 7c729079259a1bfc |
| fdb   | %             | 7c729079259a1bfc |
+-----+-----+-----+
```

9 rows in set (0.00 sec)

MariaDB [(none)]> exit

Bye

[jason.kepler@sdvmcctest02 logs]\$ sudo service mirthconnect status

The daemon is stopped.

[jason.kepler@sdvmcctest02 logs]\$ sudo service mirthconnect start

Starting mirthconnect (via systemctl): [OK]

```
[jason.keppler@sdvmcctest02 logs]$ sudo service mirthconnect status
```

The daemon is running.

```
[jason.keppler@sdvmcctest02 logs]$ sudo service mirthconnect status
```

The daemon is stopped.

```
[jason.keppler@sdvmcctest02 logs]$ mysql -u root -p
```

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 95

Server version: 5.5.56-MariaDB MariaDB Server

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

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

```
MariaDB [(none)]> update mirth set password=PASSWORD("mirth");
```

ERROR 1046 (3D000): No database selected

```
MariaDB [(none)]> user mirthdb;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'user mirthdb' at line 1

```
MariaDB [(none)]> use mirthdb;
```

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

```
MariaDB [mirthdb]> update mirth set password=PASSWORD("mirth");
```

```
ERROR 1146 (42S02): Table 'mirthdb.mirth' doesn't exist
```

```
MariaDB [mirthdb]> UPDATE mysql.user SET Password=PASSWORD('new password') WHERE User='root';
```

```
Query OK, 3 rows affected (0.00 sec)
```

```
Rows matched: 3 Changed: 3 Warnings: 0
```

```
MariaDB [mirthdb]> UPDATE mysql.user SET Password=PASSWORD("") WHERE User='root';
```

```
Query OK, 3 rows affected (0.00 sec)
```

```
Rows matched: 3 Changed: 3 Warnings: 0
```

```
MariaDB [mirthdb]> flush privileges;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [mirthdb]> UPDATE mysql.user SET Password=PASSWORD('mirth') WHERE User='mirth';
```

```
Query OK, 2 rows affected (0.00 sec)
```

```
Rows matched: 2 Changed: 2 Warnings: 0
```

MariaDB [mirthdb]> flush privileges;

Query OK, 0 rows affected (0.00 sec)

MariaDB [mirthdb]> select user,host,password from mysql.user;

user	host	password
root	localhost	
root	sdvmcctest01.medsphere.com	
root	127.0.0.1	
mirth	localhost	*80011CE4FDFACC3826F3131D8FB77AC2ED64E552
mirth	%	*80011CE4FDFACC3826F3131D8FB77AC2ED64E552
price	localhost	7fdb78a90c3e9f23
price	%	7fdb78a90c3e9f23
fdb	localhost	7c729079259a1bfc
fdb	%	7c729079259a1bfc

9 rows in set (0.00 sec)

MariaDB [mirthdb]> quit

Bye

```
[jason.keppler@sdvmcctest02 logs]$ pwd
```

```
/opt/mirthconnect/logs
```

```
[jason.keppler@sdvmcctest02 logs]$ cd ../conf
```

```
[jason.keppler@sdvmcctest02 conf]$ sudo su mirth -l
```

```
Last login: Thu Nov 30 13:24:26 PST 2017 on pts/2
```

```
[mirth@sdvmcctest02 ~]$ cd /opt/mirthconnect/conf
```

```
[mirth@sdvmcctest02 conf]$ vi mirth.properties
```

```
[mirth@sdvmcctest02 conf]$ exit
```

```
logout
```

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

```
The daemon is stopped.
```

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect start
```

```
Starting mirthconnect (via systemctl): ^[[A      [ OK ]
```

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

```
The daemon is running.
```

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

```
The daemon is running.
```

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

```
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```

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

```
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```

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

The daemon is running.

```
[jason.keppler@sdvmcctest02 conf]$ sudo service mirthconnect status
```

The daemon is running.

```
[jason.keppler@sdvmcctest02 conf]$ [ OK ]
```