

# How to fix the MySQL error message: Access denied for user 'qube\_readonly'@'localhost'

The MySQL access error on the supervisor is due to the mysql **qube\_readonly** user having no permission to read when connecting from the hostname **localhost**, which is shorthand for "this machine".

All SQL commands following in **BLUE** are run with the **mysql** client utility, which can be found at the following locations:

**OS X:** /usr/local/mysql/bin/mysql

**Linux:** /usr/bin/mysql

**Windows:** mysql (usually in the SEARCH path, courtesy of the Qube installation)

For the remainder of this page, if you see **mysql** in the command line, add the proper path to **mysql** for your particular operating system.



## Performance charts

This will also enable WrangleView to view performance charts when run from the supervisor.

## How to fix the problem when logged into the supervisor

It's necessary to **explicitly grant** the **qube\_readonly** user **read-only** access from localhost by running the SQL statement **on the supervisor machine**:

```
mysql -u root -e "GRANT SELECT ON *.* TO 'qube_readonly'@'localhost';"
```

Then, restart the QubeGUI, and the "access denied" messages should no longer occur.

## Why it occurs

The MySQL default permissions are refusing the qube\_readonly user access to the databases. We'll take a quick look at why this occurs, and then how to fix it.

Find out who's granted some sort of permission from where:

```
mysql -u root -e "SELECT user,host from mysql.user ORDER BY user;"
```

user	host
jburk	localhost
jburk	localhost
jburk	10.0.1.150
pfx_dw	127.0.0.1
pfx_dw	localhost
qube_readonly	%
root	192.168.60.165
root	10.0.1.101
root	127.0.0.1
root	jburk-17-mbpro
root	10.10.10.1
root	localhost

The one's we're interested in here are:

- the first one, with the "blank" user value: this is for any user not explicitly listed from the host localhost, which is another way to refer to the local machine the supervisor is on in my test configuration.
- the one for the user **qube\_readonly** at host %, which is the "wildcard" meaning "all hosts".

So, despite the **qube\_readonly** user being granted MySQL **SELECT** (read-only) permissions by the

```
mysql -u root -e "SHOW GRANTS FOR 'qube_readonly'@'%';"
```

Grants for qube_readonly@%
----------------------------

```
| GRANT SELECT ON *.* TO 'qube_readonly'@'%' |
+-----+
```

statement, the default explicit host definition in the next **USAGE** statement overrides the '%' wildcard in the previous statement, **effectively denying access** to any user **not specifically granted access** from the local machine:

```
mysql -u root -e "SHOW GRANTS FOR '@'localhost';"
+-----+
| Grants for @localhost |
+-----+
| GRANT USAGE ON *.* TO '@'localhost' |
+-----+
```

The **USAGE** permission is effectively an empty GRANT statement, which means "no read permission", and overrides the previous permissions grant for **qube\_readonly** from **all machines**.