15 Practical Usages of Mysqladmin Command For Administering MySQL Server

In all the 15 mysqladmin command-line examples below, tmppassword is used as the MySQL root user password. Please change this to your MySQL root password.

### 1. How to change the MySQL root user password?

# mysqladmin -u root -ptmppassword password 'newpassword'

# mysql -u root -pnewpassword

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

Your MySQL connection id is 8

Server version: 5.1.25-rc-community MySQL Community Server (GPL)

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql>

### 2. How to check whether MySQL Server is up and running?

# mysqladmin -u root -p ping

Enter password:

mysqld is alive

### 3. How do I find out what version of MySQL I am running?

Apart from giving the ‘Server version’, this command also displays the current status of the mysql server.

# mysqladmin -u root -ptmppassword version

mysqladmin Ver 8.42 Distrib 5.1.25-rc, for redhat-linux-gnu on i686

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Server version 5.1.25-rc-community

Protocol version 10

Connection Localhost via UNIX socket

UNIX socket /var/lib/mysql/mysql.sock

Uptime: 107 days 6 hours 11 min 44 sec

Threads: 1 Questions: 231976 Slow queries: 0 Opens: 17067

Flush tables: 1 Open tables: 64 Queries per second avg: 0.25

### 4. What is the current status of MySQL server?

# mysqladmin -u root -ptmppassword status

Uptime: 9267148

Threads: 1 Questions: 231977 Slow queries: 0 Opens: 17067

Flush tables: 1 Open tables: 64 Queries per second avg: 0.25

The status command displays the following information:

* Uptime: Uptime of the mysql server in seconds
* Threads: Total number of clients connected to the server.
* Questions: Total number of queries the server has executed since the startup.
* Slow queries: Total number of queries whose execution time waas more than long\_query\_time variable’s value.
* Opens: Total number of tables opened by the server.
* Flush tables: How many times the tables were flushed.
* Open tables: Total number of open tables in the database.

### 5. How to view all the MySQL Server status variable and it’s current value?

# mysqladmin -u root -ptmppassword extended-status

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

| Variable\_name | Value |

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

| Aborted\_clients | 579 |

| Aborted\_connects | 8 |

| Binlog\_cache\_disk\_use | 0 |

| Binlog\_cache\_use | 0 |

| Bytes\_received | 41387238 |

| Bytes\_sent | 308401407 |

| Com\_admin\_commands | 3524 |

| Com\_assign\_to\_keycache | 0 |

| Com\_alter\_db | 0 |

| Com\_alter\_db\_upgrade | 0 |

### 6. How to display all MySQL server system variables and the values?

# mysqladmin -u root -ptmppassword variables

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

| Variable\_name | Value |

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

| auto\_increment\_increment | 1 |

| basedir | / |

| big\_tables | OFF |

| binlog\_format | MIXED |

| bulk\_insert\_buffer\_size | 8388608 |

| character\_set\_client | latin1 |

| character\_set\_database | latin1 |

| character\_set\_filesystem | binary |

skip.....

| time\_format | %H:%i:%s |

| time\_zone | SYSTEM |

| timed\_mutexes | OFF |

| tmpdir | /tmp |

| tx\_isolation | REPEATABLE-READ |

| unique\_checks | ON |

| updatable\_views\_with\_limit | YES |

| version | 5.1.25-rc-community |

| version\_comment | MySQL Community Server (GPL) |

| version\_compile\_machine | i686 |

| version\_compile\_os | redhat-linux-gnu |

| wait\_timeout | 28800 |

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### 7. How to display all the running process/queries in the mysql database?

# mysqladmin -u root -ptmppassword processlist

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

| Id | User | Host | db | Command | Time | State | Info |

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

| 20 | root | localhost | | Sleep | 36 | | |

| 23 | root | localhost | | Query | 0 | | show processlist |

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

You can use this command effectively to debug any performance issue and identify the query that is causing problems, by running the command automatically every 1 second as shown below.

# mysqladmin -u root -ptmppassword -i 1 processlist

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

| Id | User | Host | db | Command | Time | State | Info |

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

| 20 | root | localhost | | Sleep | 36 | | |

| 23 | root | localhost | | Query | 0 | | show processlist |

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

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

| Id | User | Host | db | Command | Time | State | Info |

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

| 24 | root | localhost | | Query | 0 | | show processlist |

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

### 8. How to create a MySQL Database?

# mysqladmin -u root -ptmppassword create testdb

# mysql -u root -ptmppassword

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

Your MySQL connection id is 705

Server version: 5.1.25-rc-community MySQL Community Server (GPL)

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> show databases;

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

| Database |

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

| information\_schema |

| mysql |

| sugarcrm |

| testdb |

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

4 rows in set (0.00 sec)

**Note:** To display all tables in a database, total number of columns, row, column types, indexes etc., use the [mysqlshow command](http://www.thegeekstuff.com/2008/08/get-quick-info-on-mysql-db-table-column-and-index-using-mysqlshow/) that we discussed in our previous articles.

### 9. How to Delete/Drop an existing MySQL database?

# mysqladmin -u root -ptmppassword drop testdb

Dropping the database is potentially a very bad thing to do.

Any data stored in the database will be destroyed.

Do you really want to drop the 'testdb' database [y/N] y

Database "testdb" dropped

# mysql -u root -ptmppassword

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

Your MySQL connection id is 707

Server version: 5.1.25-rc-community MySQL Community Server (GPL)

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> show databases;

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

| Database |

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

| information\_schema |

| mysql |

| sugarcrm |

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

3 rows in set (0.00 sec)

### 10. How to reload/refresh the privilege or the grants tables?

# mysqladmin -u root -ptmppassword reload;

Refresh command will flush all the tables and close/open log files.

# mysqladmin -u root -ptmppassword refresh

### 11. What is the safe method to shutdown the MySQL server?

# mysqladmin -u root -ptmppassword shutdown

# mysql -u root -ptmppassword

ERROR 2002 (HY000): Can't connect to local MySQL server

through socket '/var/lib/mysql/mysql.sock'

Note: You can also use “/etc/rc.d/init.d/mysqld stop” to shutdown the server. To start the server, execute “/etc/rc.d/init.d/mysql start”

### 12. List of all mysqladmin flush commands.

# mysqladmin -u root -ptmppassword flush-hosts

# mysqladmin -u root -ptmppassword flush-logs

# mysqladmin -u root -ptmppassword flush-privileges

# mysqladmin -u root -ptmppassword flush-status

# mysqladmin -u root -ptmppassword flush-tables

# mysqladmin -u root -ptmppassword flush-threads

* flush-hosts: Flush all information in the host cache.
* flush-privileges: Reload the grant tables (same as reload).
* flush-status: Clear status variables.
* flush-threads: Flush the thread cache.

### 13. How to kill a hanging MySQL Client Process?

First identify the hanging MySQL client process using the processlist command.

# mysqladmin -u root -ptmppassword processlist

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

| Id | User | Host | db | Command | Time | State | Info |

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

| 20 | root | localhost | | Sleep | 64 | | |

| 24 | root | localhost | | Query | 0 | | show processlist |

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

Now, use the kill command and pass the process\_id as shown below. To kill multiple process you can pass comma separated process id’s.

# mysqladmin -u root -ptmppassword kill 20

# mysqladmin -u root -ptmppassword processlist

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

| Id | User | Host | db | Command | Time | State | Info |

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

| 26 | root | localhost | | Query | 0 | | show processlist |

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

### 14. How to start and stop MySQL replication on a slave server?

# mysqladmin -u root -ptmppassword stop-slave

Slave stopped

# mysqladmin -u root -ptmppassword start-slave

mysqladmin: Error starting slave: The server is not configured as slave;

fix in config file or with CHANGE MASTER TO

### 15. How to combine multiple mysqladmin commands together?

In the example below, you can combine process-list, status and version command to get all the output together as shown below.

# mysqladmin -u root -ptmppassword process status version

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

| Id | User | Host | db | Command | Time | State | Info |

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

| 43 | root | localhost | | Query | 0 | | show processlist |

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

Uptime: 3135

Threads: 1 Questions: 80 Slow queries: 0 Opens: 15 Flush tables: 3

Open tables: 0 Queries per second avg: 0.25

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Server version 5.1.25-rc-community

Protocol version 10

Connection Localhost via UNIX socket

UNIX socket /var/lib/mysql/mysql.sock

Uptime: 52 min 15 sec

You can also use the short form as shown below:

# mysqladmin -u root -ptmppassword pro stat ver

Use the option -h, to connect to a remote MySQL server and execute the mysqladmin commands as shown below.

# mysqladmin -h 192.168.1.112 -u root -ptmppassword pro stat ver

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