

Mysql configuration file: my.cnf

Common location: /etc/, /usr/mysql/, /etc/mysql/

Different sections in my.cnf: [mysqld], [mysql], [mysqldump]

mysqld: server level variables

mysql: client related variables

mysqldump: Backup utility related variables

Sample cnf file:

[mysqld]

disable-log-bin = 1

skip-name-resolve = 1

performance-schema = 0

local-infile = 0

mysqlx = 0

bind-address = [IPs removed]

open_files_limit = 200000

max_allowed_packet = 256M

sql_mode = "STRICT_TRANS_TABLES,ONLY_FULL_GROUP_BY,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION"

innodb_dedicated_server = 1

innodb_buffer_pool_instances = 48

innodb_log_buffer_size = 64M

innodb_read_io_threads = 12

innodb_write_io_threads = 12

innodb_stats_on_metadata = 0

innodb_file_per_table = 1

max_connections = 500

thread_cache_size = 128

table_definition_cache = 65536

table_open_cache = 65536

wait_timeout = 10

connect_timeout = 5

interactive_timeout = 30

tmp_table_size = 128M

max_heap_table_size = 128M

read_buffer_size = 256K

join_buffer_size = 512K

sort_buffer_size = 512K

read_rnd_buffer_size = 512K

slow-query-log = 1

long_query_time = 2

slow_query_log_file = /var/log/mysql_slow_query.log

log-error = /var/log/mysql/db.[removed].com.err

If we make any changes in my.cnf, then it will take effect only after restart.

Some variable are dynamic.i.e without restart it will be effective but not persistent.

To make it persistent, we need to add it into my.cnf

Always take backup before editing my.cnf

We can change default values like port, datadir,memory allocation,connection limit,etc

Server variables link:

<https://dev.mysql.com/doc/refman/8.0/en/server-system-variables.html>

Scope: Global,Session

Dynamic: Yes/No

Exercise:

Find my.cnf file path in your local machine where mysql is installed

Take backup of my.cnf

Open my.cnf file and locate mysqld section

Set max_connections to 250 via set global command

Check if it is reflecting

Restart mysql services

Check if it is still reflecting

```
mysql> show variables like '%max_connections%';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| max_connections | 151 |
| mysqlx_max_connections | 100 |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> set global max_connections=250;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> show variables like '%max_connections%';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| max_connections | 250 |
| mysqlx_max_connections | 100 |
+-----+-----+
```