



yum install gcc gcc-c++ make ncurses-devel bison openssl-devel zlib-devel cmake

```
File Edit View Search Terminal Tabs Help
root@localhost:/mymysql x root@localhost:/mymysql/mysql-5.5.12 x
Installed:
  bison.x86_64 0:2.4.1-5.el6
  ncurses-devel.x86_64 0:5.7-3.20090208.el6
  openssl-devel.x86_64 0:1.0.0-20.el6_2.5
  zlib-devel.x86_64 0:1.2.3-27.el6
Dependency Installed:
  keyutils-libs-devel.x86_64 0:1.4-4.el6
  krb5-devel.x86_64 0:1.9-33.el6
  libcom_err-devel.x86_64 0:1.41.12-12.el6
  libselinux-devel.x86_64 0:2.0.94-5.3.el6
  libsepol-devel.x86_64 0:2.0.41-4.el6
Complete!
[root@bogon mysql-5.5.12]# cmake -DCMAKE_INSTALL_PREFIX=/usr/local/lnmp/mysql \
> ^C
[root@bogon mysql-5.5.12]# cmake -DCMAKE_INSTALL_PREFIX=/usr/local/mysql \
> -DMYSQL_DATADIR=/usr/local/mysql/data \
> -DMYSQL_UNIX_ADDR=/usr/local/mysql/data/mysql.sock \
> -DWITH_MYISAM_STORAGE_ENGINE=1 \
> -DDEFAULT_CHARSET=utf8 \
> -DDEFAULT_COLLATION=utf8_general_ci \
> -DEXTRA_CHARSETS=all
```

```
-- Performing Test HAVE_LANGINFO_CODESET
-- Performing Test HAVE_LANGINFO_CODESET - Success
-- Looking for mbrlen
-- Looking for mbrlen - found
-- Looking for mbscmp
-- Looking for mbscmp - not found
-- Looking for mbsrtowcs
-- Looking for mbsrtowcs - found
-- Looking for wctomb
-- Looking for wctomb - found
-- Looking for mbrtowc
-- Looking for mbrtowc - found
-- Looking for wcscoll
-- Looking for wcscoll - found
-- Looking for wcsdup
-- Looking for wcsdup - found
-- Looking for wcwidth
-- Looking for wcwidth - found
-- Looking for wctype
-- Looking for wctype - found
-- Looking for iswlower
-- Looking for iswlower - found
-- Looking for iswupper
```

```
root@localhost:/mymysql                                root@localhost:/mymysql/mysql-5.5.12
-- Looking for towupper
-- Looking for towupper - found
-- Looking for iswctype
-- Looking for iswctype - found
-- Check size of wchar_t
-- Check size of wchar_t - done
-- Check size of wctype_t
-- Check size of wctype_t - done
-- Check size of wint_t
-- Check size of wint_t - done
-- Could NOT find Curses (missing: Curses_LIBRARY Curses_INCLUDE_PATH)
CMake Error at cmake/readline.cmake:82 (MESSAGE):
  Curses library not found. Please install appropriate package,

  remove CMakeCache.txt and rerun cmake. On Debian/Ubuntu, package name is libncurses5-dev, on Redhat and derivatives it is ncurses-devel.
Call Stack (most recent call first):
  cmake/readline.cmake:126 (FIND_CURSES)
  cmake/readline.cmake:216 (MYSQL_USE_BUNDLED_LIBEDIT)
  CMakeLists.txt:250 (MYSQL_CHECK_READLINE)

-- Configuring incomplete, errors occurred!
[root@bogon mysql-5.5.12]#
```

```
root@localhost:/mymysql/mysql-5.5.12 (on localhost.localdomain)
File Edit View Search Terminal Tabs Help
root@localhost:/mymysql                                root@localhost:/mymysql/mysql-5.5.12
-- Looking for towupper - found
-- Looking for iswctype
-- Looking for iswctype - found
-- Check size of wchar_t
-- Check size of wchar_t - done
-- Check size of wctype_t
-- Check size of wctype_t - done
-- Check size of wint_t
-- Check size of wint_t - done
-- Could NOT find Curses (missing: Curses_LIBRARY Curses_INCLUDE_PATH)
CMake Error at cmake/readline.cmake:82 (MESSAGE):
  Curses library not found. Please install appropriate package,

  remove CMakeCache.txt and rerun cmake. On Debian/Ubuntu, package name is libncurses5-dev, on Redhat and derivatives it is ncurses-devel.
Call Stack (most recent call first):
  cmake/readline.cmake:126 (FIND_CURSES)
  cmake/readline.cmake:216 (MYSQL_USE_BUNDLED_LIBEDIT)
  CMakeLists.txt:250 (MYSQL_CHECK_READLINE)

-- Configuring incomplete, errors occurred!
[root@bogon mysql-5.5.12]# yum install -y gcc gcc-c++ make ncurses-devel bison openssl-devel zlib-devel
```

```
File Edit View Search Terminal Tabs Help
root@localhost:/mymysql x root@localhost:/mymysql/mysql-5.5.12 x

Installed:
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Dependency Installed:
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Complete!
[root@bogon mysql-5.5.12]# cmake -DCMAKE_INSTALL_PREFIX=/usr/local/lnmp/mysql \
> ^C
[root@bogon mysql-5.5.12]# cmake -DCMAKE_INSTALL_PREFIX=/usr/local/mysql \
> -DMYSQL_DATADIR=/usr/local/mysql/data \
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> -DDEFAULT_COLLATION=utf8_general_ci \
> -DEXTRA_CHARSETS=all
```

```
File Edit View Search Terminal Tabs Help
root@localhost:/mymysql x root@localhost:/mymysql/mysql-5.5.12 x

-- Looking for tputs in /usr/lib64/libcurses.so
-- Looking for tputs in /usr/lib64/libcurses.so - found
-- Performing Test HAVE_DECL_TGOTO
-- Performing Test HAVE_DECL_TGOTO - Success
-- Looking for strvis
-- Looking for strvis - not found
-- Looking for strunvis
-- Looking for strunvis - not found
-- Looking for include files HAVE_LIBAIO_H
-- Looking for include files HAVE_LIBAIO_H - not found.
-- Looking for io_queue_init in aio
-- Looking for io_queue_init in aio - not found
-- Performing Test HAVE_IB_GCC_ATOMIC_BUILTINS
-- Performing Test HAVE_IB_GCC_ATOMIC_BUILTINS - Success
-- Performing Test HAVE_IB_ATOMIC_PTHREAD_T_GCC
-- Performing Test HAVE_IB_ATOMIC_PTHREAD_T_GCC - Success
-- Check size of pthread_t
-- Check size of pthread_t - done
-- Performing Test HAVE_PEEERCRED
-- Performing Test HAVE_PEEERCRED - Success
-- Configuring done
-- Generating done
-- Build files have been written to: /mymysql/mysql-5.5.12
[root@bogon mysql-5.5.12]# make && make install
```



```

Linking CXX static library libmyisammrg.a
[ 31%] Built target myisammrg
Scanning dependencies of target mysqlservices
[ 32%] Building C object libservices/CMakeFiles/mysqlservices.dir/my_snprintf_service.c.o
[ 32%] Building C object libservices/CMakeFiles/mysqlservices.dir/thd_alloc_service.c.o
[ 32%] Building C object libservices/CMakeFiles/mysqlservices.dir/thd_wait_service.c.o
[ 32%] Building C object libservices/CMakeFiles/mysqlservices.dir/my_thread_scheduler_service.c.o
Linking C static library libmysqldservices.a
[ 32%] Built target mysqlservices
Scanning dependencies of target federated
[ 33%] Building CXX object storage/federated/CMakeFiles/federated.dir/ha_federated.cc.o
[ 33%] Building C object storage/federated/CMakeFiles/federated.dir/__/mysys/string.c.o
Linking CXX shared module ha_federated.so
[ 33%] Built target federated
Scanning dependencies of target example
[ 33%] Building CXX object storage/example/CMakeFiles/example.dir/ha_example.cc.o

```

```

root@localhost:/mymysql/mysql-5.5.12 (on localhost.localdomain)
File Edit View Search Terminal Tabs Help
root@localhost:/ root@localhost:/mymysql/mysql-5.5.12
-- Installing: /usr/local/mysql/man/man1/mysql_upgrade.1
-- Installing: /usr/local/mysql/man/man1/mysqldhotcopy.1
-- Installing: /usr/local/mysql/man/man1/mysql_tzinfo_to_sql.1
-- Installing: /usr/local/mysql/man/man1/mysql.server.1
-- Installing: /usr/local/mysql/man/man1/mysqldumpslow.1
-- Installing: /usr/local/mysql/man/man1/mysql-stress-test.pl.1
-- Installing: /usr/local/mysql/man/man1/mysqlcheck.1
-- Installing: /usr/local/mysql/man/man1/my_print_defaults.1
-- Installing: /usr/local/mysql/man/man8/mysqld.8
[root@bogon mysql-5.5.12]# ls
BUILD                                CPackSourceConfig.cmake  make_dist.cmake  storage
BUILD-CMAKE                         CTestTestfile.cmake     Makefile         strings
client                              debug                    man              support-files
cmake                               Docs                     mysql-test      tests
CMakeCache.txt                     extra                    mysys            unittest
CMakeFiles                         include                  packaging        VERSION
cmake_install.cmake                info_macros.cmake       plugin           VERSION.dep
CMakeLists.txt                     install_manifest.txt    README          vio
cmd-line-utils                     INSTALL-SOURCE          regex           win
config.h.cmake                     INSTALL-WIN-SOURCE     scripts         zlib
configure.cmake                    libmysql                 sql
COPYING                            libmysqld               sql-bench
CPackConfig.cmake                  libservices              sql-common
[root@bogon mysql-5.5.12]#

```

```
root@localhost:/mymysql/mysql-5.5.12 (on localhost.localdomain)
File Edit View Search Terminal Tabs Help

root@localhost:/mymysql  root@localhost:/mymysql/mysql-5.5.12

[root@bogon mymysql]# ls
mysql-5.5.12.tar.gz
[root@bogon mymysql]# tar xzf mysql-5.5.12.tar.gz
[root@bogon mymysql]# ls
mysql-5.5.12  mysql-5.5.12.tar.gz
[root@bogon mymysql]# cd mysql-5.5.12
[root@bogon mysql-5.5.12]# ls
BUILD          COPYING          libmysqld       regex           tests
BUILD-CMAKE    debug           libservices     scripts         unittest
client         Docs            man             sql            VERSION
cmake         extra          mysql-test     sql-bench      vio
CMakeLists.txt include        mysys          sql-common     win
cmd-line-utils INSTALL-SOURCE packaging       storage        zlib
config.h.cmake INSTALL-WIN-SOURCE plugin          strings
configure.cmake libmysql       README         support-files

[root@bogon mysql-5.5.12]#
```

```
root@localhost:/usr/local/mysql (on localhost.localdomain)
File Edit View Search Terminal Tabs Help

root@localhost:/usr/local/mysql  root@localhost:/usr/local/mysql

-- Installing: /usr/local/mysql/man/man1/mysqlcheck.1
-- Installing: /usr/local/mysql/man/man1/my_print_defaults.1
-- Installing: /usr/local/mysql/man/man8/mysqld.8
[root@bogon mysql-5.5.12]# ls
BUILD          CPackSourceConfig.cmake  make_dist.cmake  storage
BUILD-CMAKE    CTestTestfile.cmake     Makefile         strings
client         debug                   man             support-files
cmake         Docs                   mysql-test      tests
CMakeCache.txt extra                  mysys          unittest
CMakeFiles     include                packaging       VERSION
cmake_install.cmake info_macros.cmake      plugin          VERSION.dep
CMakeLists.txt install_manifest.txt  README         vio
cmd-line-utils INSTALL-SOURCE        regex          win
config.h.cmake INSTALL-WIN-SOURCE    scripts        zlib
configure.cmake libmysql              sql
COPYING        libmysqld             sql-bench
CPackConfig.cmake libserves            sql-common
[root@bogon mysql-5.5.12]# useradd -M -d /usr/local/lnmp/mysql/data/ -s /sbin/nologin mysql
[root@bogon mysql-5.5.12]# cd /usr/local/mysql/
[root@bogon mysql]# ls
bin      data  include  lib  mysql-test  scripts  sql-bench
COPYING  docs  INSTALL-BINARY  man  README      share    support-files

[root@bogon mysql]#
```

```
[root@bogon mysql]# cd support-files/
[root@bogon support-files]# ls
binary-configure    my-huge.cnf          mysqld_multi.server
config.huge.ini     my-innodb-heavy-4G.cnf  mysql-log-rotate
config.medium.ini   my-large.cnf         mysql.server
config.small.ini    my-medium.cnf        ndb-config-2-node.ini
magic               my-small.cnf
[root@bogon support-files]# cp mysql.server /etc/init.d/mysqld
[root@bogon support-files]#
```

```
[root@bogon support-files]# cp mysql.server /etc/init.d/mysqld
[root@bogon support-files]# cp my-large.cnf /etc/my.cnf
cp: overwrite '/etc/my.cnf'? y
[root@bogon support-files]# cd ..
```

```
[root@bogon mysql]# ll
total 76
drwxr-xr-x. 2 root root 4096 May 10 01:50 bin
-rw-r--r--. 1 root root 17987 Apr 11 2011 COPYING
drwxr-xr-x. 4 root root 4096 May 10 01:49 data
drwxr-xr-x. 2 root root 4096 May 10 01:49 docs
drwxr-xr-x. 3 root root 4096 May 10 01:49 include
-rw-r--r--. 1 root root 7370 Apr 11 2011 INSTALL-BINARY
drwxr-xr-x. 3 root root 4096 May 10 01:49 lib
drwxr-xr-x. 4 root root 4096 May 10 01:50 man
drwxr-xr-x. 10 root root 4096 May 10 01:50 mysql-test
-rw-r--r--. 1 root root 2552 Apr 11 2011 README
drwxr-xr-x. 2 root root 4096 May 10 01:50 scripts
drwxr-xr-x. 27 root root 4096 May 10 01:50 share
drwxr-xr-x. 4 root root 4096 May 10 01:50 sql-bench
drwxr-xr-x. 2 root root 4096 May 10 01:50 support-files
[root@bogon mysql]#
```

```
[root@bogon mysql]# chown -R root .
[root@bogon mysql]# chown -R mysql data
[root@bogon mysql]# ll
total 76
drwxr-xr-x. 2 root root 4096 May 10 01:50 bin
-rw-r--r--. 1 root root 17987 Apr 11 2011 COPYING
drwxr-xr-x. 4 mysql root 4096 May 10 01:49 data
drwxr-xr-x. 2 root root 4096 May 10 01:49 docs
drwxr-xr-x. 3 root root 4096 May 10 01:49 include
-rw-r--r--. 1 root root 7370 Apr 11 2011 INSTALL-BINARY
drwxr-xr-x. 3 root root 4096 May 10 01:49 lib
drwxr-xr-x. 4 root root 4096 May 10 01:50 man
drwxr-xr-x. 10 root root 4096 May 10 01:50 mysql-test
-rw-r--r--. 1 root root 2552 Apr 11 2011 README
drwxr-xr-x. 2 root root 4096 May 10 01:50 scripts
drwxr-xr-x. 27 root root 4096 May 10 01:50 share
drwxr-xr-x. 4 root root 4096 May 10 01:50 sql-bench
drwxr-xr-x. 2 root root 4096 May 10 01:50 support-files
```

```
[root@bogon mysql]# cd
[root@bogon ~]# l.
.      .config      .gnome2_private  .local          .ssh
..     .cshrc       .gnote          .mozilla        .tcshrc
.bash_history .dbus          .gnupg         .nautilus       .viminfo
.bash_logout .esd_auth     .gstreamer-0.10 .pulse          .vimrc
.bash_profile .gconf       .gtk-bookmarks .pulse-cookie
.bashrc      .gconfd     .gvfs         .recently-used.xbel
.cache       .gnome2     .ICEauthority .spice-vdagent
[root@bogon ~]# vim .bash_profile
```



```
Alternatively you can run:
/usr/local/mysql/bin/mysql_secure_installation

which will also give you the option of removing the test
databases and anonymous user created by default. This is
strongly recommended for production servers.

See the manual for more instructions.

You can start the MySQL daemon with:
cd /usr/local/mysql ; /usr/local/mysql/bin/mysqld_safe &

You can test the MySQL daemon with mysql-test-run.pl
cd /usr/local/mysql/mysql-test ; perl mysql-test-run.pl

Please report any problems with the /usr/local/mysql/scripts/mysqlbug script!

[root@bogon scripts]#
```

```
[root@bogon scripts]# /etc/init.d/mysqld start
Starting MySQL..... SUCCESS!
[root@bogon scripts]# mysql_secure_installation
```

```
[root@bogon bin]# mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 4
Server version: 5.5.12-log Source distribution

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> show databases;
+-----+
| Database                |
+-----+
| information_schema       |
| mysql                    |
| performance_schema      |
| test                     |
+-----+
4 rows in set (0.20 sec)
```

MySQL 5.5 新增一个存储引擎：命名 **PERFORMANCE_SCHEMA**，主要用于收集数据库服务器性能参数。MySQL 用户是不能创建存储引擎为 **PERFORMANCE_SCHEMA** 的表

performance_schema 提供以下功能：

1. 提供进程等待的详细信息，包括锁、互斥变量、文件信息；

- 2.保存历史的事件汇总信息，为提供 MySQL 服务器性能做出详细的判断；
- 3.对于新增和删除监控事件点都非常容易，并可以随意改变 mysql 服务器的监控周期，例如（CYCLE、MICROSECOND）

通过以上得到的信息，DBA 能够较明细得了解性能降低可能是由于哪些瓶颈？