

mysql

mysql安装

```
[client]
default-character-set=utf8mb4

[mysqld-社区]
bind-address=0.0.0.0
character_set_server=utf8mb4
collation-server = utf8mb4_unicode_ci
init_connect='SET NAMES utf8mb4'

datadir=/data/mysqldata/
socket=/data/mysqldata/mysql.sock

symbolic-links=0 #不创建符号链接

log-error=/data/mysqldata/mysqld.log
pid-file=/data/mysqldata/mysqld.pid

--initialize
--user
--datadir
--basedir
--defaults-file

mysql -uroot -p -S *.sock

lrzsz #安装lrzsz
navicat #安装navicat
sqyoy #安装sqyoy

tar xf mysql-boost-8.0.45.tar.gz
```

MySQL

```
mkdir build && cd build
cmake .. \
-DMAKE_INSTALL_PREFIX=/usr/local/mysql-8.0.45\
-DDEFAULT_CHARSET=utf8mb4\
-DDEFAULT_COLLATION=utf8mb4_unicode_ci \
-DENABLED_LOCAL_INFILE=ON \
-DWITH_SSL=system\
-DMYSQL_DATADIR=/data/mysqldata\
-DMYSQL_TCP_PORT=3306 \
-DDOWNLOAD_BOOST=0 \
-DWITH_BOOST=./boost
make -j 4 #4CPU
make install
yum install -y elfutils-libelf-devel binutils
yum install -y ncurses-devel
```



```
PL/SQL Developer #PL/SQL
toad for Oracle #Oracle
```



```
rpm -qa | grep glibc
```



```
/usr/local/mysql-8.0.45/bin/mysql_safe --defaults-file=/etc/my3307.cnf &
```



```
/usr/local/mysql-8.0.45/bin/mysqldadmin -uroot -p -S /data/mysqldata/mysql.sock shutdown
```



```
/usr/local/mysql-8.0.45/bin/mysql -uroot -p -S /data/mysqldata/mysql.sock
```

```
select user,host,authentication_string,plugin from mysql.user;
```

1. 1 2 3 4

1. tinyint 1 -128~127 smallint 2 -32768~32767 mediumint 3 -8388608~8388607 int 4 -2147483648~2147483647 bigint 8 -9223372036854775808~9223372036854775807

2. float 4 -3.4028234663852886E+38~3.4028234663852886E+38 double 8 -1.7976931348623157E+308~1.7976931348623157E+308 decimal 15 -10³⁸~10³⁸

```
create table ccc(x float(4,2),y double(5,3),z decimal(4,2));
insert into ccc values (8.666,8.666,8.666);
select * from ccc;
```

3. year 1 1901~2155 time 3 00:00:00~23:59:59 date 3 1000-01-01~9999-12-31 datetime 8 1000-01-01 00:00:00~9999-12-31 23:59:59 timestamp 4 1970-01-01 00:00:00~2038-01-01 23:59:59

4. char 1 0~255 varchar 165535 text 165535 enum 1 0~255

set 1 0~65535

5. bit 1 0~1 enum 1 0~255 varchar 165535 longblob 145775206

1 2 3 4 5 6 7 8

```
create database database_name charset='utf8mb4' collate='utf8mb4_unicode_ci';
```

1 2 3 4 5 6 7 8

```
select default_character_set_name,default_collation_name from information_schema.schemata
where schema_name='database_name';
drop database database_name;
```



```
rename database database_name to test; 8.0

use test001;
create database test001;
create table ddd(id int, name varchar(255),age int,phone varchar(255));
insert into ddd values (1,'',18,'13800000000'),(2,'',19,'13900000000'),(3,'',
',20,'13800000001');

create table fff(id int, name varchar(255),age int,phone varchar(255));
insert into fff values (1,'',18,'13800000000'),(2,'',19,'13900000000'),(3,'',
',20,'13800000001');

select * from ddd;
select * from fff;

create database test002;

rename table test001.ddd to test002.ddd;
rename table test001.fff to test002.fff;

use test002;
select * from ddd;
select * from fff;

use test001;
show tables;

drop database test001;
drop database test002;
```



```
create database aaa charset='utf8mb4' collate='utf8mb4_unicode_ci';
use aaa;
select database();
drop database aaa;
```



```
create database aaa charset='utf8mb4' collate='utf8mb4_unicode_ci'; #创建数据库aaa
use aaa;
create table bbb(id int, name varchar(255),age int,phone varchar(255));

alter table bbb add column email varchar(255);
desc bbb;

drop database aaa; #删除数据库aaa
```



```
create database aaa charset='utf8mb4' collate='utf8mb4_unicode_ci'; #创建数据库aaa
use aaa;
create temporary table ccc(id int, name varchar(255),age int,phone varchar(255));
show tables; #查看数据库中的表
insert into ccc values (1,'张三',18,'138000000000'),(2,'李四',19,'139000000000'),(3,'王五',20,'138000000001');
select * from ccc; #查询数据库中的表

drop database ccc; #删除数据库ccc
```

3. 数据库安全



DCL



/数据库

```
grant #授权
revoke #撤销
create role / drop role #创建/删除角色
grant role / drop role
```



DDL


```
) engine=innodb default charset=utf8mb4 comment='测试数据库';

-- 测试数据表
insert into bbb (hostname, ip, os, cpu, mem, disk, status, create_date)
values
('linux-test-01', '120.92.11.101', 'centos 7.9', 2, 2, 40, 'running', '2026-07-01'),
('linux-note-web', '120.92.11.102', 'ubuntu 22.04', 2, 4, 60, 'running', '2026-07-05'),
('mysql-db-server', '120.92.11.103', 'centos stream 9', 4, 8, 100, 'maintenance', '2026-06-20');

-- 测试记录表
insert into ccc (server_id, record_time)
values
(1, '2026-07-18 08:30:00'),
(1, '2026-07-18 10:15:00'),
(2, '2026-07-18 09:20:00'),
(3, '2026-07-18 14:00:00');

-- 测试成功表
insert into ddd (server_id, record_time, success)
values
(1, '2026-07-17 11:20:00', 1),
(1, '2026-07-17 15:40:00', 0),
(2, '2026-07-18 09:10:00', 1),
(3, '2026-07-16 16:30:00', 1);

select * from bbb;
select * from ccc;
select * from ddd;

desc bbb;
desc ccc;
desc ddd;

delete from ccc where server_id = 1;
select * from ccc;

is not null
like '%libai%';
```

```
count(*) #统计
sum(cpu) #cpu总和
avg(mem) #内存平均值
max(disk) #磁盘最大值
min(disk) #磁盘最小值
```



```
start transaction; #开始事务
commit; #提交
rollback; #回滚
```

```
DDL truncate #DDL截断
```

```
primary key          #主键
auto_increment       #自增
enum('001','002','003') #枚举
default '001'        #默认
date                 #日期
datetime             #datetime
foreign key          #外键
```



mysql_secure_installation

```
Would you like to setup VALIDATE PASSWORD component?
Change the password for root ?
Remove anonymous users?
Disallow root login remotely?
Remove test database and access to it?
Reload privilege tables now?
```



mysql



maridb

```
echo "skip-grant-tables=1" >> /etc/my.cnf.d/mysql-server.cnf
mysql -u root -p123456 -e {"show processlist;";"show master status;";"flush binary
logs;";"show binary logs;"}
```



```
create user "user001"@"%" identified by '123456';
alter user "user001"@"%" identified by '258069'; {set password for 'root'@'localhost' =
password('123456');[]}
rename user "user002"@"%" to "user003"@"%";

select concat('','',user,'','','@','','',host,'') from mysql.user;    -->select
concat('','',user,'"@','host,'') from mysql.user;
select concat('\','',user,'\','', '@','','',host,'\') from mysql.user;-->select
concat('\','',user,'\ '@'\',host,'\') from mysql.user;
```



```
create database class; && use class; | drop database class;
```



```
create table job(); | drop table job;
primary key=not null+unique key
auto_increment
unsigned
zerofill
age int check(age >= 0 and age <= 120)
score int check(score between 0 and 100)
default '  '

int {auto_increment;primary key;comment '  '} {-- ;#/* */;}
decimal()
test()
varchar() {not null;unique}
```

```

char()
enum(' ',' ') default ' '
tinyint (-128 ~ 127)
amount decimal(10,2)
date
created_at datetime default current_timestamp
updated_at datetime default current_timestamp on update current_timestamp

show create table job;

```



```

insert into job() values();
alter table job {add;modify;drop;add unique index;drop index}
alter table job add age int comment " " after username; | alter table job drop age;
alter table job add unique index aaa(mail); --> show {keys;indexes} from job; | alter table
job drop index aaa;
alter table job modify column phone varchar(100);
update job set {username="libai";age=age+100}{,mail="heihei"} where
{username="user01";id=1;phone is null limit 1;id>10}
delete from job where mail="hei hei"; --> delete from job;
truncate table job;

```



```

grant all privileges on *.* to "user001"@"%" with grant option; --> show grants for
"user001"@"%";-->select * from mysql.user where User='user001' \G
revoke {file|update|super} on *.* from "user001"@"%";
{select;insert;update;delete}
{create;drop;alter;index;}
{create user;drop user;grant option;all privileges}
{file}
flush privileges;

```



```
create user a_role;
grant all privileges on *.* to a_role;
create user user001@'%' identified by '123456';
grant "a_role"@"%" to "user001"@"%";
set default role "a_role"@"%" to "user001"@"%";
```



```
show databases; && show tables;
!= # 
select * from class.job where id<10 and id>5; in(5,6,7,8,9)
select * from class.job where id between 5 and 10;
select * from class.job order by id {asc;desc;linuxnote-[desc,id2 asc]}
select * from class.job limit 5 {offset 10}
select * from class.job like '%libai%';
desc job; --> show full {columns;fields} from job;
select user,host from mysql.user;-->select concat('','',user,'"',host,'') from mysql.user;
show keys from job;
show binary logs;
show variables like
{'bind_address';'log_bin';log_bin_basename;server_id;local_infile;log_error;relay_log};

select user from mysql.user where user='';
show databases like 'test%';
```



```
exit; && quit;
```



```
yum install https://dev.mysql.com/get/mysql80-community-release-el7-6.noarch.rpm -y
yum install -y mysql-community-server.x86_64

systemctl start mysqld && systemctl enable mysqld && systemctl status mysqld
rm -rf /var/lib/mysql
```

```
mkdir /var/lib/mysql
chown -R mysql:mysql /var/lib/mysql
chmod 750 /var/lib/mysql
systemctl start mysqld && systemctl enable mysqld && systemctl status mysqld
grep "password" /var/log/mysqld.log
alter user root@localhost identified by 'Root@123456';
```

```
SET GLOBAL validate_password.policy = LOW;
SET GLOBAL validate_password.length = 4;
SET GLOBAL validate_password.mixed_case_count = 0;
SET GLOBAL validate_password.number_count = 0;
SET GLOBAL validate_password.special_char_count = 0;
```

validate_password.policy=LOW □ 0~2□ 2 □□□

```
validate_password.length=4
validate_password.mixed_case_count=0
validate_password.number_count=0
validate_password.special_char_count=0
```

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```
show binary logs;
show variables like {'bind_address','log_bin';server_id;local_infile;'validate_password%'};

bind-address = 0.0.0.0
local_infile = 0
revoke file on *.* from "user001"@"%" ;

general_log = 1
general_log_file = /var/log/mysql/general.log
server-id = 1
log-bin = /var/log/mysql/mysql-bin

select user from mysql.user where user='';
select user, host from mysql.user where user='root' and host='%';
show databases like 'test%';
```



mysql

```
groupadd mysql && useradd -r -g mysql -s /bin/false mysql
https://downloads.mysql.com/archives/community/
wget https://downloads.mysql.com/archives/get/p/23/file/mysql-5.7.42-linux-glibc2.12-
x86_64.tar.gz
md5sum mysql-5.7.42-linux-glibc2.12-x86_64.tar.gz
tar -zxvf mysql-5.7.42-linux-glibc2.12-x86_64.tar.gz
mkdir -p /usr/local/mysql && mv mysql-5.7.42-linux-glibc2.12-x86_64/* /usr/local/mysql && rm
-rf mysql-5.7.42-linux-glibc2.12-x86_64*
export PATH=/usr/local/mysql/bin:$PATH --> source /etc/profile && echo $PATH && which
mysqldump
echo 'export PATH=/usr/local/mysql/bin:$PATH' | tee -a /etc//profile && source /etc/profile
groupadd -M -s /sbin/nologin -g mysql mysql
mkdir -p /mysql && chown -R mysql:mysql /mysql/ && chmod -R 755 /mysql/
mysqld --initialize --user=mysql --basedir=/usr/local/mysql --datadir=/mysql

sudo tee /etc/systemd/system/mysql.service <<EOF
linuxnote-[Unit]
Description=
After=network.target
linuxnote-[Service]
User=mysql
Group=mysql
ExecStart=/usr/local/mysql/bin/mysqld --defaults-file=/etc/my.cnf
Restart=on-failure
linuxnote-[Install]
WantedBy=multi-user.target
EOF
sudo systemctl daemon-reload && sudo systemctl start mysql && sudo systemctl enable mysql &&
systemctl status mysql

mysql -uroot -p
dnf install -y ncurses-compat-libs && ldd /usr/local/mysql/bin/mysql
```



mysqldump|

```
mysql -u root -p123456 -e "show processlist;"
mysqldump -uroot -p123456 {--add-databases;class;class job;} > *.sql
mysqldump -u root -p123456 --comments --skip-lock-tables --single-transaction class | gzip >
class-$(date +%F).sql.gz
{--lock-tables;--no-data;--where=}

mysql -u root -p123456 -e "drop database class;"
mysql -u root -p123456 -e "create database class;"
mysql -uroot -p123456 < all.sql
mysql -uroot -p123456 class < class.sql
mysql -uroot -p123456 class < job.sql
```



```
rsync -av /mysql/ /opt/mysql$(date +%F)
rsync -av /opt/mysql2026-06-19/mysql/ /mysql

server-id = 1
log-bin = /var/lib/mysql/mysql-bin
```



```
mysql -u root -p123456 -e "show processlist;"
mysql -u root -p123456 -e "show master status;"
mysql -u root -p123456 -e "flush binary logs;"
mysql -uroot -p123456 -e "show binary logs;"

rsync -av /mysql/mysql-bin.000000{1..4} /opt/mysql-bin-$(date +%F)
mysqlbinlog /opt/mysql-bin-2026-06-20/mysql-bin.000001 | mysql -uroot -p123456
```



XtraBackup|



```
yum install -y https://repo.percona.com/yum/percona-release-latest.noarch.rpm
percona-release enable-only tools release
yum install -y percona-xtrabackup-24
create user 'user001'@'localhost' identified by '123456';
```

```
grant process, reload, lock tables, replication client, create, insert, select on *.* to
'user001'@'localhost';
flush privileges;
innobackupex --user=user001 --password=123456 --socket=/tmp/mysql.sock --no-timestamp
/opt/mysql-x
innobackupex --apply-log /opt/mysql-x/
innobackupex --prepare /opt/mysql-x
systemctl stop mysql
rm -rf /mysql/*
innobackupex --copy-back /opt/mysql-x
chown -R mysql:mysql /mysql
systemctl start mysql
mysql -uuser001 -p123456 -e "show databases;"
mysql -uroot -p123456
```



```
innobackupex --user=user001 --password=123456 --socket=/tmp/mysql.sock --no-timestamp --
databases="class" /opt/db_class
innobackupex --user=user001 --password=123456 --socket=/tmp/mysql.sock --no-timestamp --
databases="class student test_db" /opt/db_class_student_test_db
innobackupex --user=user001 --password=123456 --socket=/tmp/mysql.sock --no-timestamp --
include='test_db.*' /opt/db_test_db_all
innobackupex --user=user001 --password=123456 --socket=/tmp/mysql.sock --no-timestamp --
include="class.job" /opt/db_class.job
```



```
innobackupex --user=user001 --password=123456 --socket=/tmp/mysql.sock --no-timestamp --
incremental /opt/inc1 --incremental-basedir=/opt/mysql-x
innobackupex --user=user001 --password=123456 --socket=/tmp/mysql.sock --no-timestamp --
incremental /opt/inc2 --incremental-basedir=/opt/inc1
```



```

cat /opt/incl/xtrabackup_checkpoints
innobackupex --apply-log --redo-only /opt/mysql-x
innobackupex --apply-log --redo-only /opt/mysql-x --incremental-dir=/opt/inc1
innobackupex --apply-log /opt/mysql-x --incremental-dir=/opt/inc2
systemctl stop mysql
rm -rf /mysql/*
innobackupex --copy-back /opt/mysql-x
chown -R mysql:mysql /mysql
systemctl start mysql

innobackupex --apply-log --export /opt/db_class.job
systemctl stop mysql
rm -f /mysql/class/job.*
systemctl start mysql
    -create table job
cp /opt/db_class.job/class/job.ibd /mysql/class/
cp /opt/db_class.job/class/job.cfg /mysql/class/
chown mysql:mysql /mysql/class/job.*
alter table job discard tablespace;
cp /opt/db_class.job/class/job.ibd /mysql/class/
cp /opt/db_class.job/class/job.cfg /mysql/class/
chown mysql:mysql /mysql/class/job.*
alter table job import tablespace;
select * from job;

innobackupex --verify

```

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```

ls -l /proc/11862/exe

mkdir -p /mysql
chown -R mysql:mysql /mysql
chmod -R 750 /mysql

whereis mysqld && which mysqld
mysqld --defaults-file=/etc/mysql2.cnf --initialize --user=mysql
vim /etc/systemd/system/mysql2.service

```

```
[Unit]
Description=MySQL 3307
After=network.target syslog.target

[Service]
User=mysql
Group=mysql
Type=notify
ExecStart=/usr/libexec/mysqld --defaults-file=/etc/mysql2.cnf
ExecReload=/bin/kill -HUP $MAINPID
KillMode=mixed
Restart=on-failure
LimitNOFILE=65535

[Install]
WantedBy=multi-user.target
systemctl start mysql2.service

mysql_secure_installation --defaults-file=/etc/mysql2.cnf

mysqld --defaults-file=/etc/mysql2.cnf -uroot -p123456
mysql -uroot -p123456 -h 127.0.0.1 -P 3307
mysql -u root -p123456 -S /mysql/mysql.sock

create user "root"@"%" identified by '123456';
grant all privileges on *.* to "root"@"%" with grant option;
flush privileges ;
mysql -uroot -p123456 -h 192.168.20.145 -P 3307
```



```
systemctl stop mysql2
systemctl disable mysql2
rm -f /etc/systemd/system/mysql2.service
systemctl daemon-reload
rm -f /etc/mysql2.cnf
```



□

```
vim /etc/my.cnf.d/mysql-server.cnf
server-id=1
log-bin=/var/log/mysql/mysql-bin.log
sudo systemctl enable --now mysqld && systemctl status mysqld --no-pager && mysql --version
```

□

```
vim /etc/my.cnf.d/mysql-server.cnf
server-id = 2
relay-log = /var/log/mysql/relay-bin.log
read_only = 1
```

□

```
mysqldump -uroot -p123456 --all-databases > all.sql && scp all.sql 192.168.20.147:~

create user repl@'%' identified by '123456';
grant replication slave on *.* to repl@'%';
flush privileges;
select * from mysql.user where User='repl' \G

show master status;
show binary logs;
```

□ 8.0.23+

```
change replication source to
    source_host='192.168.20.145',
    source_port=3306,
    source_user='repl',
    source_password='123456',
    source_log_file='mysql-bin.000001',
    source_log_pos=1527,
    source_ssl=1;
```

□ 5.7 / 8.0.22-

```
change master to
    master_host='192.168.20.146',
```

```
master_port=3306,  
master_user='repl',  
master_password='123456',  
master_log_file='mysql-bin.000003',  
master_log_pos=13956,  
master_ssl=1;
```

```
show variables like 'server_id';
```

8.0.22

```
start slave;  
stop slave;  
show slave status\G
```

8.0.22

```
start replica;  
stop replica;  
show replica status\G  
reset replica all;  
set global sql_slave_skip_counter = 1;
```



mysqld

```
systemctl stop mysqld && dnf remove mysql-server mysql -y  
rm -rf /var/lib/mysql  
rm -rf /etc/my.cnf  
rm -rf /var/log/mysql  
dnf install mysql-server -y
```



proxysql||



```
cat > /etc/yum.repos.d/proxysql.repo <<'EOF'  
linuxnote-[proxysql_repo]  
name=ProxySQL 3.0.x Official Repo  
baseurl=https://repo.proxysql.com/ProxySQL/proxysql-3.0.x/almalinux/$releasever  
gpgcheck=1
```

```
gpgkey=https://repo.proxysql.com/ProxySQL/proxysql-3.0.x/repo_pub_key
EOF
dnf install proxysql -y
sudo systemctl enable --now proxysql && systemctl status proxysql --no-pager && proxysql --
version
```



```
show status like 'threads_connected';
--lock-all-tables
mysqldum1 -uroot -p123456 --single-transaction -h 192.168.20.146 class name > name.sql
mysqldum1 -uroot -p123456 --single-transaction -h 192.168.20.146 class job > job.sql
create database name;
create database job;
mysql -uroot -p123456 name < name.sql
mysql -uroot -p123456 job < job.sql
```



```
create table namme1 like name;
create table namme2 like name;
create table namme3 like name;
create table namme4 like name;

insert into name1 select * from name where id between 1 and 10;
insert into name2 select * from name where id between 11 and 20;
insert into name3 select * from name where id between 21 and 30;
insert into name4 select * from name where id between 31 and 40;

insert into name1 select * from name where class_name='';
insert into name2 select * from name where class_name='';
insert into name3 select * from name where class_name='';
insert into name4 select * from name where class_name='';

select * from name1
union all
```

```

select * from name2
union all
select * from name3
union all
select * from name4;

create view all-name as
select * from name1
union all
select * from name2
union all
select * from name3
union all
select * from name4;
drop view if exists all-name;

```

■■■■ proxysql■■■■

■■ proxysql■

```

mysql -uadmin -padmin -h 127.0.0.1 -P 6032
insert into mysql_servers(hostgroup_id, hostname, port) values
(10, '192.168.20.146', 3306),
(20, '192.168.20.147', 3306);
save mysql variables to disk;
load mysql variables to runtime;

```

■

```

create user 'monitor'@'192.168.20.%' identified by '123456';
grant replication client on *.* to 'monitor'@'192.168.20.%;
flush privileges;

```

■■ proxysql■

```

set mysql-monitor_username='monitor';
set mysql-monitor_password='123456';
save mysql variables to disk;
load mysql variables to runtime;

```

□

```
create user appuser@'%' identified by '123456';
grant all on *.* to "appuser"@"%";
flush privileges;
```

□□ proxysql;

```
insert into mysql_users (username, password, default_hostgroup, transaction_persistent)
values ('appuser', '123456', 10, 1);
save mysql users to disk;
load mysql users to runtime;

insert into mysql_query_rules (rule_id, active, match_digest, destination_hostgroup, apply)
values (1, 1, '^select.*', 20, 1);
load mysql query rules to runtime;
save mysql query rules to disk;

load mysql variables to runtime;
save mysql variables to disk;

load mysql servers to runtime;
save mysql servers to disk;

load mysql users to runtime;
save mysql users to disk;

insert into mysql_servers(hostgroup_id, hostname, port) values
(10, '192.168.20.146', 3306),
(10, '192.168.20.147', 3306);

insert into mysql_replication_hostgroups (writer_hostgroup, reader_hostgroup, comment)
values (10, 20, '□□□□□');

load mysql servers to runtime;
save mysql servers to disk;
```

□□□□

```
update mysql_servers set weight=50 where hostname='192.168.20.146';
update mysql_servers set weight=100 where hostname='192.168.20.147';
load mysql servers to runtime;
save mysql servers to disk;
```



```
update global_variables set variable_value='5000' where variable_name='mysql-
monitor_local_dns_cache_refresh_interval';

update mysql_servers set status='offline_soft' where hostname='172.22.4.4'
select * from stats_mysql_query_rules;
select * from stats_mysql_connection_pool;
select hostgroup,sum_time,count_star from stats_mysql_query_digest;
```



```
exit
mysql -uadmin -padmin -h127.0.0.1 -P6032 -e "select hostgroup_id, hostname, status from
runtime_mysql_servers;"
mysql -u appuser -p123456 -h 192.168.20.145 -P 6033 -e "select @@server_id, @@hostname;"
mysql -u appuser -p123456 -h 192.168.20.145 -P 6033 -e "select * from class.students;"
mysql -u appuser -p123456 -h 192.168.20.145 -P 6033 -e "insert into class.students (name, age,
class_name) values ('0000006', 25, '000');"
mysql -uadmin -padmin -h127.0.0.1 -P6032 -e "select hostgroup, count_star, digest_text from
stats_mysql_query_digest;"

mysql -uadmin -padmin -h127.0.0.1 -P6032 \
-e "select hostgroup,
          digest_text,
          count_star,
          from_unixtime(last_seen) as last_seen_time
from stats_mysql_query_digest
where digest_text like 'select%'
order by last_seen desc
limit 5;"

dnf -y remove proxysql
```



```
-- 删除 qianshan 数据库
revoke select on *.* from qianshan@'%';

-- 删除所有权限
revoke all privileges on *.* from qianshan@'%';

-- 删除用户
drop user qianshan@'%';
```



```
mysql> CREATE ROLE 'qianshan_role';
Query OK, 0 rows affected (0.00 sec)

mysql> GRANT ALL privileges ON *.* TO 'qianshan_role';
Query OK, 0 rows affected (0.00 sec)

mysql> create user qs001@'%' identified by 'Zhongguo@0755';
Query OK, 0 rows affected (0.00 sec)

mysql> GRANT 'qianshan_role' TO 'qs001'@'%';
Query OK, 0 rows affected (0.00 sec)
```



1. 数据库名称 = database = date + base = 年 + 月 (日 / 月) excel

数据库名称 数据库名称 数据库名称 数据库名称
数据库名称 数据库名称 数据库名称 数据库名称

2. 数据库名称 数据库名称 = DBMS DBMS 数据库名称

1 数据库名称 DDL 2
数据库名称 3
数据库名称 DML 4 数据库名称

XXXXXXXXXXXXXXXXXXXX

3. XXXXXXXXXX XXXXXXXXXX excel
XXXXXXXXXXXXXXXXXXXX DBMSXXXX EXCELXXXXXXXX mysql oracle
 sql server

XXXXXX

XXXXXX

<https://db-engines.com/en/ranking>

oracleXXXX 197xXXXXXXXXXXXX 11G 12C 19C
mysqlXXXX XXX MySQL ABXXXX 1995XXXX 2008 SUNXXXX 2009 SUNXXXX Oracle
XXXX

Microsoft SQL Server

198x sql server sybaseXXXX

sql server 6.5 sql server 2000

sql server 2017XXXX linux

postgresql XXXXXXXXXXX windows linuxXXXXXXXX BSD
gaussdb/opengaussXXXXXXXX

mogodb

XXXXXXXXXXXXXXXXXXXX NoSQLXXXX

XXXX redis/memcached

XXXX Prometheus InfluxDB

time host bytes_in bytes_out

MariDB Mysql

MariDBXXXXXXXXXXXX RDBMS 2009 oracleXXXX sunXXXX
mysql XXX mysqlXXXX oracleXXXX msyql

maridb

<https://mariadb.org/download/?t=mariadb>

Mysql5.7 8.x

```
mysql5.7 mysql8.0 1 mysql5.7 iatin1,mysql8 utf8mb4 2
mysql5.7 mysql_native_password mysql8 caching_sha2_password 3
mysql8 mysql5.7 2 4 mysql5.7 grant all xxxx mysql
create user grant all 2 5 xtrabackup
```

Mysql5.7

centos7.9 ☐ yum ☐ ☐ ☐ ☐ ☐ yum ☐

```
https://dev.mysql.com/downloads/repo/yum/  
rpm -ivh mysql80-community-release-el7-6.noarch.rpm
```

mysql-server

```
yum repolist all|grep mysql #[]mysql[]
yum install -y yum-utils #[]yum[]
yum-config-manager --disable mysql80-community
yum-config-manager --enable mysql57-community
```

1111

```
yum install mysql-server #□□□□
```

```
mysql-community.repo[ ] rpm[ ] gpg[ ]
```

```
sed -i 's#file:///etc/pki/rpm-gpg/RPM-GPG-KEY-mysql-2022#https://repo.mysql.com/RPM-GPG-KEY-mysql-2023#g' /etc/yum.repos.d/mysql-community.repo

sed -i 's#file:///etc/pki/rpm-gpg/RPM-GPG-KEY-mysql#https://repo.mysql.com/RPM-GPG-KEY-mysql#g' /etc/yum.repos.d/mysql-community.repo

sed -i 's#RPM-GPG-KEY-mysql-2022#RPM-GPG-KEY-mysql-2023#g' /etc/yum.repos.d/mysqlcommunity.repo
```

--	--	--	--	--	--	--	--

```
systemctl start mysqld
```

Mysql5.7安装

```
#下载安装包
tar xf mysql-5.7.44-linux-glibc2.12-x86_64.tar.gz

#创建mysql用户
[root@c79-s01 opt]# groupadd mysql
[root@c79-s01 opt]# useradd -M -s /sbin/nologin -g mysql mysql
[root@c79-s01 opt]# mkdir -p /data/mysqldata
[root@c79-s01 opt]# chown -R mysql.mysql /data/mysqldata/

#配置mysql
[root@c79-s01 opt]# more /etc/my.cnf
[client]
default-character-set=utf8mb4
[mysqld]
bind-address=0.0.0.0
character_set_server=utf8mb4
collation-server = utf8mb4_unicode_ci
init_connect='SET NAMES utf8mb4'
datadir=/data/mysqldata/
socket=/data/mysqldata/mysql.sock
symbolic-links=0
log-error=/data/mysqldata/mysqld.log
pid-file=/data/mysqldata/mysqld.pid
```



```
/usr/local/mysql-5.7.44/bin/mysqld --initialize --user=mysql --datadir=/data/mysqldata --
basedir=/usr/local/mysql-5.7.44
```

查看日志

```
more /data/mysqldata/mysqld.log
```

启动mysql

```
/usr/local/mysql-5.7.44/bin/mysqld_safe --defaults-file=/etc/my.cnf &
```

■■■■

```
mysql -uroot -p -S /data/mysqldata/mysql.sock  
mysql -uroot -p -h 127.0.0.1
```

■■■■

```
cp /usr/local/mysql-5.7.44/support-files/mysql.server /etc/init.d/mysqld  
sed -i '46s/basedir=/basedir=/usr/local/mysql-5.7.44/g' /etc/rc.d/init.d/mysqld  
sed -i '47s/datadir=/datadir=/data/mysqldata/g' /etc/rc.d/init.d/mysqld  
chmod +x /etc/init.d/mysqld  
chkconfig -add mysqld  
systemctl daemon-reload  
systemctl start mysqld  
systemctl enable mysqld
```

Mysql8.0■■

yum■■■■

centos7.9■■ ■■■■■■ yum■

```
https://dev.mysql.com/downloads/repo/yum/  
rpm -ivh mysql80-community-release-el7-6.noarch.rpm
```

■■■■■ gpg■■

```
vi /etc/yum.
```

■■■■

```
yum install msyql-server
```

rockylinux8.10■■■

```
dnf install mysql-server  
systemctl start mysqld  
mysql -uroot -p
```

RPM

rockylinux8.10

rpm

```
tar xf mysql-8.0.45-1.el8.x86_64.rpm-bundle.tar
```

rpm

```
dnf localinstall \
mysql-community-server-8.0.45-1.el8.x86_64.rpm \
mysql-community-client-8.0.45-1.el8.x86_64.rpm \
mysql-community-common-8.0.45-1.el8.x86_64.rpm \
mysql-community-icu-data-files-8.0.45-1.el8.x86_64.rpm \
mysql-community-client-plugins-8.0.45-1.el8.x86_64.rpm \
mysql-community-libs-8.0.45-1.el8.x86_64.rpm
```

```
systemctl start mysqld
```

```
grep 'password' /var/log/mysqld.log
mysql -uroot -p
```

rockylinux8.10

```
groupadd mysql
useradd -M -s /sbin/nologin -g mysql mysql
#glibc
cd /opt

lrzsz mysql-8.0.45-linux-glibc2.28-x86_64.tar.xz

tar -xf mysql-8.0.45-linux-glibc2.28-x86_64.tar.xz
mv mysql-8.0.45-linux-glibc2.28-x86_64 /usr/local/mysql-8.0.45
```

```
chown mysql:mysql -R /usr/local/mysql-8.0.45/
```

```
#创建数据目录
```

```
mkdir -p /data/mysqldata
```

```
chown -R mysql:mysql /data/mysqldata
```

```
#编辑my.cnf文件
```

```
[client]
```

```
default-character-set=utf8mb4
```

```
[mysqld]
```

```
bind-address=0.0.0.0
```

```
character_set_server=utf8mb4
```

```
collation-server = utf8mb4_0900_ai_ci
```

```
init_connect='SET NAMES utf8mb4'
```

```
datadir=/data/mysqldata/
```

```
socket=/data/mysqldata/mysql.sock
```

```
symbolic-links=0
```

```
log-error=/data/mysqldata/mysqld.log
```

```
pid-file=/data/mysqldata/mysqld.pid
```

```
[mysql]
```

```
default-character-set=utf8mb4
```

```
#启动mysql
```

```
/usr/local/mysql-8.0.45/bin/mysqld --defaults-file=/etc/my.cnf --initialize --user=mysql --  
datadir=/data/mysqldata --basedir=/usr/local/mysql-8.0.45
```

```
#检查日志
```

```
[root@alma88-01 soft]# grep 'password' /data/mysqldata/mysqld.log
```

```
❏
```

```
/usr/local/mysql-8.0.45/bin/mysqld_safe &
```

```
❏❏❏❏❏❏❏❏
```

```
[root@alma88-01 opt]# mysql -uroot -p'XXXXXXXX' -P3306 -h 127.0.0.1
```

```
mysql> alter user 'root'@'localhost' identified by 'Zhongguo@0755';
```

```
mysql> create user 'root'@'%' identified by 'Zhongguo@0755';
```

```
mysql> grant all privileges on *.* to rootd@'%';
```

```
mysql> flush privileges;
```

```
#
```

```
/usr/local/mysql-8.0.45/bin/mysqladmin -uroot -p -S /data/mysqldata/mysql.sock shutdown
```



rockylinux8.10



```
#
```

```
tar xf mysql-boost-8.0.45.tar.gz
```

```
cd mysql-8.0.45
```

```
mkdir build && cd build
```

```
cmake .. \
```

```
-DCMAKE_INSTALL_PREFIX=/usr/local/mysql-8.0.45 \
```

```
-DDEFAULT_CHARSET=utf8mb4 \
```

```
-DDEFAULT_COLLATION=utf8mb4_unicode_ci \
```

```
-DENABLED_LOCAL_INFILE=ON \
```

```
-DWITH_SSL=system \
```

```
-DMYSQL_DATADIR=/data/mysqldata \
```

```
-DMYSQL_TCP_PORT=3306 \
```

```
-DDOWNLOAD_BOOST=0 \
```

```
-DWITH_BOOST=../boost
```

```
make -j8 #8CPU
```

```
make install
```

cmake

```
yum install cmake -y
```

```
yum install gcc-toolset-12-gcc gcc-toolset-12-gcc-c++ gcc-toolset-12-binutils gcc-toolset-12-annobin-annocheck gcc-toolset-12-annobin-plugin-gcc
```

```
yum install -y elfutils-libelf-devel binutils
```

```
yum install -y openssl-devel
```

```
yum install -y ncurses-devel
```

```
yum install -y libtirpc-devel
```

```
tar xf rpcsvc-proto-1.4.4.tar.xz
```

```
cd rpcsvc-proto-1.4.4
./configure && make && make install
```

■■■■■■■

```
groupadd mysql
useradd -M -s /sbin/nologin -g mysql mysql
#■■■■■■■■glibc■■

mkdir -p /data/mysqldata
chown -R mysql:mysql /data/mysqldata
```

■■■■■

```
[root@c79-s01 opt]# more /etc/my.cnf
[client]
default-character-set=utf8mb4

[mysqld]
bind-address=0.0.0.0
character_set_server=utf8mb4
collation-server = utf8mb4_unicode_ci
init_connect='SET NAMES utf8mb4'

datadir=/data/mysqldata/
socket=/data/mysqldata/mysql.sock

symbolic-links=0

log-error=/data/mysqldata/mysqld.log
pid-file=/data/mysqldata/mysqld.pid
```

■■■

```
/usr/local/mysql-8.0.45/bin/mysqld --initialize --user=mysql --datadir=/data/mysqldata --
basedir=/usr/local/mysql-8.0.45
```

■

```
/usr/local/mysql-8.0.45/bin/mysqld_safe --defaults-file=/etc/my.cnf &
```

□

```
/usr/local/mysql-8.0.45/bin/mysqld_safe &
```

□□□□□□□□□□

```
cd /usr/local/  
tar -zcf mysql-8.0.45.rocky8.cmake.tar.gz /usr/local/mysql-8.0.45  
#□□  
sz /usr/local/mysql-8.0.45.rocky8.cmake.tar.gz
```

□□□□□□□□□□

```
navicat  
  
#□□□□□□□□□□  
mysql> create user 'qsadmin'@'%' identified by 'Zhongguo@0755';  
Query OK, 0 rows affected (0.02 sec)  
mysql> grant all privileges on *.* to 'qsadmin'@'%;  
Query OK, 0 rows affected (0.01 sec)  
mysql> flush privileges;  
Query OK, 0 rows affected (0.01 sec)  
mysql>  
  
sqlyog  
www.webyog.com
```

□□□□ <https://github.com/webyog/sqlyog-community/wiki/Downloads> □□ mysql

```
dbeaver  
https://dbeaver.io
```

□□ mysql□□□ pg□□□ oracle□□□ sql server□

PL/SQL Developer□ TOAD for Oracle □□□ oracle□□□□□□□

□□□□□□□□□□

yum&&rpm□□□

--	--	--	--	--

```
systemctl start mysqld
```
































































--	--	--	--	--	--

```
systemctl stop mysqld
```

```
kill -15 ${mysqld_pid}
```

--	--	--	--	--	--	--	--	--

```
mysql -uroot -p
mysql -uroot -p -S /var/lib/mysql/mysql.sock
mysql -uroot -p -h 127.0.0.1
```



```
#  
/usr/local/mysql-8.0.45/bin/mysqld_safe --defaults-file=/etc/my3307.cnf &  
#  
/usr/local/mysql-8.0.45/bin/mysqladmin -uroot -p -S /data/mysqldata/mysql.sock shutdown  
#  
/usr/local/mysql-8.0.45/bin/mysql -uroot -p -S /data/mysqldata/mysql.sock
```

--	--	--	--	--	--	--	--

DCL DCL= SQL DDL,DML,TCL DCL

grant ☐ ☐ ☐ revoke ☐ ☐ ☐ ☐

```
create role/drop role
grant role/revoke role
```

```

[ ] [ ] . ( [ ] [ ] [ ] [ ] ) [ ] [ ] mysql.user [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] DBA [ ] [ ] [ ] [ ] db_name.* [ ] [ ] [ ] [ ]
mysql.db [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] db_name.table_name [ ] [ ] [ ] [ ] [ ] [ ] mysql.tables_priv [ ] [ ] [ ] [ ] col1
[ ] [ ] mysql. [ ] [ ] [ ] [ ] columns_priv [ ] [ ] [ ] [ ] [ ] [ ] / [ ] [ ] [ ] [ ] [ ] [ ] procs_priv [ ] [ ] [ ] [ ]

```

IP 1 2 IP 3
8 4

```
#mysql8.x  
create user username@'IP' identified by " ";  
grant all on *.* to username@'IP';  
flush privileges;
```

IP =% IP =192.168.1.1 1.1 IP =192.168.1.% 192.168.1

```
#mysql 5.7  
grant all on *.* to username@'IP' identified by " ";  
  
-- root  
alter user root@'localhost' identified by 'Zhongguo@0755';  
  
--   
select user,host,authentication_string,plugin from mysql.user;  
  
-- qianshan \G   
show grants for qianshan@'%'\G;  
  
-- mysqlqianshanqs  
update mysql.user set user='qs' where user='qianshan';  
--   
flush privileges;
```

Revision #1

Created 2026-08-20 14:59:32 CST by Admin

Updated 2026-08-20 14:59:40 CST by Admin