

服务器软件安装与管理

① MySQL

安装 MySQL 服务端和客户端

```
# apt update
# apt install -y mysql-server mysql-client
```

服务的启停

```
# service mysql stop
# service mysql start
# service mysql restart
```

配置文件

```
# vi /etc/mysql/my.cnf
```

命令行登录

```
$ mysql -u root -p
```

用户管理

授权（以便于远程登录）

```
mysql> grant all on *.* to root@"%" identified by "123456"
```

查看用户

```
mysql> select host,user from mysql.user;
+-----+-----+
| host      | user                |
+-----+-----+
| %         | rudy                |
| localhost | debian-sys-maint    |
| localhost | mysql.session       |
| localhost | mysql.sys           |
| localhost | phpmyadmin          |
| localhost | root                |
+-----+-----+
6 rows in set (0.01 sec)
```

连接远程数据库

```
rudy@OptiPlex-7050:~/applications/navicat120_mysql_cs_x64$ mysql -h 120.78.197.79 -u rudy -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 295
Server version: 5.6.37 MySQL Community Server (GPL)

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owners.

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

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| RUNOOB |
| mysql |
| mysql_course |
| performance_schema |
+-----+
5 rows in set (0.17 sec)
```

status 命令查看状态

```
mysql> status
-----
mysql Ver 14.14 Distrib 5.7.23, for Linux (x86_64) using EditLine wrapper

Connection id:          295
Current database:
Current user:           rudy@42.197.222.51
SSL:                    Not in use
Current pager:          stdout
Using outfile:          ''
Using delimiter:        ;
Server version:         5.6.37 MySQL Community Server (GPL)
Protocol version:       10
Connection:             120.78.197.79 via TCP/IP
Server characterset:    latin1
Db characterset:        latin1
Client characterset:    utf8
Conn. characterset:     utf8
TCP port:               3306
Uptime:                 59 days 13 hours 36 min 31 sec

Threads: 1 Questions: 28 Slow queries: 0 Opens: 68 Flush tables: 1 Open tables: 61 Queries per second avg: 0.000
-----
```

更多状态、配置信息

```
mysql> show variables like 'max_connections';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| max_connections | 151 |
+-----+-----+
1 row in set (0.22 sec)

mysql> show global status like 'max_used_connections';
+-----+-----+
```

```

| Variable_name | Value |
+-----+
| Max_used_connections | 4 |
+-----+
1 row in set (0.00 sec)

mysql> show variables like 'innodb_buffer_pool_size';
+-----+
| Variable_name | Value |
+-----+
| innodb_buffer_pool_size | 134217728 |
+-----+
1 row in set (0.01 sec)

mysql> show status like 'innodb_rows_%';
+-----+
| Variable_name | Value |
+-----+
| Innodb_rows_deleted | 0 |
| Innodb_rows_inserted | 0 |
| Innodb_rows_read | 0 |
| Innodb_rows_updated | 0 |
+-----+
4 rows in set (0.02 sec)

```

手册 <https://dev.mysql.com/doc/refman/5.7/en/>