

# MySQL安装

centos7下安装MySQL离线包

下载MySQL安装包rpm，可以直接从官网下载

<https://dev.mysql.com/downloads/mysql/>

## MySQL Community Server 5.7.17

Select Platform:

Red Hat Enterprise Linux / Oracle Linux

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Install Using Yum:

## MySQL Yum Repository

### Supported Platforms:

- ▶ Red Hat Enterprise Linux / Oracle Linux
- ▶ Fedora

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Download Packages:

<b>Red Hat Enterprise Linux 7 / Oracle Linux 7 (x86, 64-bit), RPM Bundle</b> (mysql-5.7.17-1.el7.x86_64.rpm-bundle.tar)	5.7.17	557.1M	<a href="#">Download</a>
MD5: ca51e90ad3899f1e1c24c2690da62422   <a href="#">Signature</a>			
<b>Red Hat Enterprise Linux 7 / Oracle Linux 7 (x86, 32-bit), RPM Bundle</b> (mysql-5.7.17-1.el7.i686.rpm-bundle.tar)	5.7.17	476.8M	<a href="#">Download</a>
MD5: fe9b77283916cec9a49be4aa7afe95a7   <a href="#">Signature</a>			

用xshell工具将安装包拷贝到Linux目录下

```
mysql-5.7.17-1.el7.x86_64.rpm-bundle.tar
```

开始安装

首先解压安装包

```
[root@bing 下载]# tar -xf mysql-5.7.17-1.el7.x86_64.rpm-bundle.tar
[root@bing 下载]# ls
mysql-5.7.17-1.el7.x86_64.rpm-bundle.tar
mysql-community-client-5.7.17-1.el7.x86_64.rpm
mysql-community-common-5.7.17-1.el7.x86_64.rpm
mysql-community-devel-5.7.17-1.el7.x86_64.rpm
mysql-community-embedded-5.7.17-1.el7.x86_64.rpm
mysql-community-embedded-compat-5.7.17-1.el7.x86_64.rpm
mysql-community-embedded-devel-5.7.17-1.el7.x86_64.rpm
mysql-community-libs-5.7.17-1.el7.x86_64.rpm
mysql-community-libs-compat-5.7.17-1.el7.x86_64.rpm
mysql-community-minimal-debuginfo-5.7.17-1.el7.x86_64.rpm
mysql-community-server-5.7.17-1.el7.x86_64.rpm
mysql-community-server-minimal-5.7.17-1.el7.x86_64.rpm
mysql-community-test-5.7.17-1.el7.x86_64.rpm
```

1 安装server端

```
root@bing 下载]# rpm -ivh mysql-community-server-5.7.17-1.el7.x86_64.rpm
```

错误：依赖检测失败：

```
mysql-community-client(x86-64) >= 5.7.9 被 mysql-community-server-5.7.17-1.el7.x86_64 需要
mysql-community-common(x86-64) = 5.7.17-1.el7 被 mysql-community-server-5.7.17-1.el7.x86_64 需要
```

安装需要依赖

所以

```
mysql-community-server-5.7.17-1.el7.x86_64.rpm
mysql-community-server-minimal-5.7.17-1.el7.x86_64.rpm
mysql-community-test-5.7.17-1.el7.x86_64.rpm
[root@bing 下载]# rpm -ivh mysql-community-server-5.7.17-1.el7.x86_64.rpm
错误: 依赖检测失败:
    mysql-community-client(x86-64) >= 5.7.9 被 mysql-community-server-5.7.17-1.el7.x86_6
4 需要
    mysql-community-common(x86-64) = 5.7.17-1.el7 被 mysql-community-server-5.7.17-1.el7
.x86_64 需要
[root@bing 下载]# rpm -ivh mysql-community-common-5.7.17-1.el7.x86_64.rpm
准备中... ##### [100%]
正在升级/安装...
    1:mysql-community-common-5.7.17-1.el7##### [100%]
[root@bing 下载]# rpm -ivh mysql-community-server-5.7.17-1.el7.x86_64.rpm
错误: 依赖检测失败:
    mysql-community-client(x86-64) >= 5.7.9 被 mysql-community-server-5.7.17-1.el7.x86_6
4 需要
[root@bing 下载]# rpm -ivh mysql-community-client-5.7.17-1.el7.x86_64.rpm
错误: 依赖检测失败:
    mysql-community-libs(x86-64) >= 5.7.9 被 mysql-community-client-5.7.17-1.el7.x86_64
需要
[root@bing 下载]# rpm -ivh mysql-community-libs-5.7.17-1.el7.x86_64.rpm
准备中... ##### [100%]
正在升级/安装...
    1:mysql-community-libs-5.7.17-1.el7##### [100%]
[root@bing 下载]# rpm -ivh mysql-community-server-5.7.17-1.el7.x86_64.rpm
错误: 依赖检测失败:
    mysql-community-client(x86-64) >= 5.7.9 被 mysql-community-server-5.7.17-1.el7.x86_6
4 需要
```

安装好依赖包后安装server后重新启动mysql服务

service mysqld restart

修改登录验证的用户密码

/usr/bin/mysqladmin -u -root passwd '123456'

```
[root@bing 下载]# /usr/bin/mysqladmin -u -root passwd '123456'
mysqladmin: connect to server at 'localhost' failed
error: 'Access denied for user '-root'@'localhost' (using password: NO)'
```

发现失败了，查找资料后找到一种密码的的方法

```
[root@bing ~]# systemctl start mysqld
[root@bing ~]# cat /var/log/mysqld.log |grep password
```

```

2017-03-07 03:07:42 22387 [Note] Shutting down plugin 'sha256_password'
2017-03-07 03:07:42 22387 [Note] Shutting down plugin 'mysql_old_password'
2017-03-07 03:07:42 22387 [Note] Shutting down plugin 'mysql_native_password'
2017-03-07 11:50:10 2269 [Note] Shutting down plugin 'sha256_password'
2017-03-07 11:50:10 2269 [Note] Shutting down plugin 'mysql_old_password'
2017-03-07 11:50:10 2269 [Note] Shutting down plugin 'mysql_native_password'
2017-03-07 13:22:55 2343 [Note] Shutting down plugin 'sha256_password'
2017-03-07 13:22:55 2343 [Note] Shutting down plugin 'mysql_old_password'
2017-03-07 13:22:55 2343 [Note] Shutting down plugin 'mysql_native_password'
2017-03-07 14:28:49 2386 [Note] Shutting down plugin 'sha256_password'
2017-03-07 14:28:49 2386 [Note] Shutting down plugin 'mysql_old_password'
2017-03-07 14:28:49 2386 [Note] Shutting down plugin 'mysql_native_password'
2017-03-07 16:20:29 6142 [Note] Shutting down plugin 'sha256_password'
2017-03-07 16:20:29 6142 [Note] Shutting down plugin 'mysql_old_password'
2017-03-07 16:20:29 6142 [Note] Shutting down plugin 'mysql_native_password'
2017-03-07T09:23:40.255622Z 1 [Note] A temporary password is generated for root@localhost: R
RSF87=fKsrt
2017-03-07T09:25:02.210047Z 3 [Note] Access denied for user 'root'@'localhost' (using password: NO)
2017-03-07T09:26:42.850191Z 4 [Note] Access denied for user '-root'@'localhost' (using password: NO)
2017-03-07T09:34:29.192488Z 0 [Note] Shutting down plugin 'validate_password'
2017-03-07T09:34:30.654371Z 0 [Note] Shutting down plugin 'sha256_password'
2017-03-07T09:34:30.654384Z 0 [Note] Shutting down plugin 'mysql_native_password'
[root@bing ~]# mysql -uroot -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 3
Server version: 5.7.17

```

找到密码后

mysql -uroot -p 输入密码

```

mysql> show databases;
ERROR 1820 (HY000): You must reset your password using ALTER USER statement before executing
this statement.
mysql> select user()
-> ;
ERROR 1820 (HY000): You must reset your password using ALTER USER statement before executing
this statement.
mysql> alter user user() identified by '123456';
ERROR 1819 (HY000): Your password does not satisfy the current policy requirements

```

由于密码过于简单所以会不让修改，可以修改下密码的策略与validate\_password\_policy的值有关

```

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

```

```

mysql> set global validate_password_length=4;
Query OK, 0 rows affected (0.00 sec)

```

```

alter user user() identified by '123456';

```

```

mysql> quit
Bye
[root@bing ~]# mysql -uroot -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 4
Server version: 5.7.17 MySQL Community Server (GPL)

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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>

```

可以正常登录了 现在修改数据库的编码

```
[root@bing ~]# vim /etc/my.cnf
```

```
# For advice on how to change settings please see
# http://dev.mysql.com/doc/refman/5.7/en/server-configuration-defaults.html

[mysqld]
default-character-set=utf8
#
# Remove leading # and set to the amount of RAM for the most important
# cache in MySQL. Start at 70% of total RAM for dedicated server, e
# innodb_buffer_pool_size = 128M
#
# Remove leading # to turn on a very important data integrity option
# changes to the binary log between backups.
# log_bin
#
# Remove leading # to set options mainly useful for reporting server
# The server defaults are faster for transactions and fast SELECTs.
# Adjust sizes as needed, experiment to find the optimal values.
# join_buffer_size = 128M
# sort_buffer_size = 2M
# read_rnd_buffer_size = 2M
datadir=/var/lib/mysql
socket=/var/lib/mysql/mysql.sock

# Disabling symbolic-links is recommended to prevent assorted security
```

我们通常会用外部的连接工具来远程连接数据库

所以需要给把所有数据库和表的权限赋值给指定的ip和用户

```
mysql> select user,host,authentication_string from user;
+-----+-----+-----+
| user      | host      | authentication_string |
+-----+-----+-----+
| root      | localhost | *6BB4837EB74329105EE4568DDA7DC67ED2CA2AD9 |
| mysql.sys | localhost | *THISISNOTAVALIDPASSWORDTHATCANBEUSEDHERE |
| root      | %         | *6BB4837EB74329105EE4568DDA7DC67ED2CA2AD9 |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

重启服务。