

下载离线包

```
wget https://dev.mysql.com/get/Downloads/MySQL-5.7/mysql-5.7.22-linux-glibc2.12-x86_64.tar.gz
```

安装前检查是否已经安装其他版本mysql需要先卸载

```
rpm -qa | grep mysql
##若有结果需要卸载
rpm -e 程序名 // 普通删除模式
rpm -e --nodeps 程序名 // 强力删除模式，如果使用上面命令删除时，提示有依赖的其它文件，则用
该命令可以对其进行强力删除
```

复制到安装目录

```
mv ./mysql-5.7.22-linux-glibc2.12-x86_64.tar.gz /usr/local
```

解压

```
tar -xvf mysql-5.7.22-linux-glibc2.12-x86_64.tar.gz
```

重命名

```
mv /usr/local/mysql-5.7.22-linux-glibc2.12-x86_64 /usr/local/mysql
```

新建data目录

```
mkdir /usr/local/mysql/data
```

新建mysql用户、mysql用户组

```
# mysql用户组
groupadd mysql
# mysql用户
useradd mysql -g mysql
```

将mysql的所有者及所属组改为mysql

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

配置

```
/usr/local/mysql/bin/mysql_install_db --user=mysql --basedir=/usr/local/mysql/ -
-datadir=/usr/local/mysql/data
```

编辑/etc/my.cnf 设置临时密码

```
cd /etc
cp my.cnf my.cnf.back
cat > ./my.cnf << EOF
[mysqld]
datadir=/usr/local/mysql/data
basedir=/usr/local/mysql
socket=/tmp/mysql.sock
user=mysql
port=3306
character-set-server=utf8
## 同一局域网内注意要唯一
server-id=210
## 开启二进制日志功能，可以随便取（关键）
log-bin=mysql-bin
# 取消密码验证
skip-grant-tables
# Disabling symbolic-links is recommended to prevent assorted security risks
symbolic-links=0
# skip-grant-tables
[mysqld_safe]
log-error=/var/log/mysql.log
pid-file=/var/run/mysqld/mysqld.pid
!includedir /etc/my.cnf.d
EOF
```

开启服务

- 将mysql加入服务

```
cp /usr/local/mysql/support-files/mysql.server /etc/init.d/mysql
```

- 开机自启

```
chkconfig mysql on
```

- 开启

```
service mysql start
```

设置密码

登录（由于/etc/my.cnf中设置了取消密码验证，所以此处密码任意）

```
/usr/local/mysql/bin/mysql -u root -p
# 操作mysql数据库
>>use mysql;
# 修改密码
>>update user set authentication_string=password('123456') where user='root';
>>flush privileges;
>>exit;
```

将/etc/my.cnf中的skip-grant-tables删除

```
cat > /etc/my.cnf << EOF
[mysqld]
datadir=/usr/local/mysql/data
basedir=/usr/local/mysql
socket=/tmp/mysql.sock
user=mysql
port=3306
character-set-server=utf8
## 同一局域网内注意要唯一
server-id=210
## 开启二进制日志功能，可以随便取（关键）
log-bin=mysql-bin
# 取消密码验证
#skip-grant-tables
# Disabling symbolic-links is recommended to prevent assorted security risks
symbolic-links=0
# skip-grant-tables
[mysqld_safe]
log-error=/var/log/mysqld.log
pid-file=/var/run/mysqld/mysqld.pid
!includedir /etc/my.cnf.d
EOF
```

登录再次设置密码

```
/usr/local/mysql/bin/mysql -u root -p
>>ALTER USER 'root'@'localhost' IDENTIFIED BY '123456';
>>exit;
```

允许远程连接

```
/usr/local/mysql/bin/mysql -u root -p

>>use mysql;

>>update user set host='%' where user = 'root';

>>flush privileges;

>>exit;
```

添加快捷方式

```
ln -s /usr/local/mysql/bin/mysql /usr/bin
```

重构为主从配置

主节点修改

```
cat > /etc/my.cnf << EOF
```

```

[mysqld]
datadir=/usr/local/mysql/data
basedir=/usr/local/mysql
socket=/tmp/mysql.sock
user=mysql
port=3306
character-set-server=utf8
## 同一局域网内注意要唯一
server-id=210
## 开启二进制日志功能，可以随便取（关键）
log-bin=mysql-bin
# 取消密码验证
#skip-grant-tables
# Disabling symbolic-links is recommended to prevent assorted security risks
symbolic-links=0
# skip-grant-tables
[mysqld_safe]
log-error=/var/log/mysql.log
pid-file=/var/run/mysql/mysql.pid
!includedir /etc/my.cnf.d
EOF

```

创建slave用户

```

/usr/local/mysql/bin/mysql -u root -p
>>use mysql;

>>CREATE USER 'slave'@'%' IDENTIFIED BY '123456';

>>GRANT REPLICATION SLAVE, REPLICATION CLIENT ON *.* TO 'slave'@'%';

>>exit;
service mysql restart

```

从节点修改

```

cat > /etc/my.cnf << EOF
[mysqld]
datadir=/usr/local/mysql/data
basedir=/usr/local/mysql
socket=/tmp/mysql.sock
user=mysql
port=3306
character-set-server=utf8
## 同一局域网内注意要唯一
server-id=220
## 开启二进制日志功能，以备Slave作为其它Slave的Master时使用
log-bin=mysql-slave-bin
## relay_log配置中继日志
relay_log=edu-mysql-relay-bin
# 取消密码验证
#skip-grant-tables
# Disabling symbolic-links is recommended to prevent assorted security risks
symbolic-links=0
# skip-grant-tables
[mysqld_safe]

```

```
log-error=/var/log/mysqld.log
pid-file=/var/run/mysqld/mysqld.pid
!includedir /etc/my.cnf.d
EOF
service mysql restart
```

主节点查询

```
/usr/local/mysql/bin/mysql -u root -p
```

```
mysql> show master status;
```

```
+-----+-----+-----+-----+
---+
| File           | Position | Binlog_Do_DB | Binlog_Ignore_DB |
Executed_Gtid_Set |
+-----+-----+-----+-----+
---+
| mysql-bin.000001 |      154 |              |                  |
|                 |
+-----+-----+-----+-----+
---+
1 row in set (0.00 sec)
mysql>
```

slave节点执行

```
change master to master_host='10.2.40.220', master_user='slave',
master_password='123456', master_port=3306, master_log_file='mysql-bin.000001',
master_log_pos= 154, master_connect_retry=30;
```

```
show slave status \G;
```

```
mysql> show slave status \G;
```

```
***** 1. row *****
      Slave_IO_State:
          Master_Host: 10.2.40.210
          Master_User: slave
          Master_Port: 3306
          Connect_Retry: 30
          Master_Log_File: mysql-bin.000001
          Read_Master_Log_Pos: 154
          Relay_Log_File: edu-mysql-relay-bin.000001
          Relay_Log_Pos: 4
          Relay_Master_Log_File: mysql-bin.000001
          Slave_IO_Running: No
          Slave_SQL_Running: No
          Replicate_Do_DB:
          Replicate_Ignore_DB:
          Replicate_Do_Table:
          Replicate_Ignore_Table:
          Replicate_Wild_Do_Table:
          Replicate_Wild_Ignore_Table:
          Last_Errno: 0
          Last_Error:
          Skip_Counter: 0
          Exec_Master_Log_Pos: 154
          Relay_Log_Space: 154
```

```

        Until_Condition: None
        Until_Log_File:
        Until_Log_Pos: 0
    Master_SSL_Allowed: No
    Master_SSL_CA_File:
    Master_SSL_CA_Path:
    Master_SSL_Cert:
    Master_SSL_Cipher:
    Master_SSL_Key:
    Seconds_Behind_Master: NULL
Master_SSL_Verify_Server_Cert: No
    Last_IO_Errno: 0
    Last_IO_Error:
    Last_SQL_Errno: 0
    Last_SQL_Error:
Replicate_Ignore_Server_Ids:
    Master_Server_Id: 0
    Master_UUID:
    Master_Info_File: /usr/local/mysql/data/master.info
    SQL_Delay: 0
    SQL_Remaining_Delay: NULL
    Slave_SQL_Running_State:
    Master_Retry_Count: 86400
    Master_Bind:
    Last_IO_Error_Timestamp:
    Last_SQL_Error_Timestamp:
    Master_SSL_Crl:
    Master_SSL_Crlpath:
    Retrieved_Gtid_Set:
    Executed_Gtid_Set:
    Auto_Position: 0
    Replicate_Rewrite_DB:
    Channel_Name:
    Master_TLS_Version:
1 row in set (0.00 sec)

ERROR:
No query specified

```

启动主从复制

```

mysql> start slave;
Query OK, 0 rows affected (0.00 sec)

mysql> show slave status \G;
***** 1. row *****
        Slave_IO_State: Waiting for master to send event
          Master_Host: 10.2.40.210
          Master_User: slave
          Master_Port: 3306
        Connect_Retry: 30
        Master_Log_File: mysql-bin.000001
    Read_Master_Log_Pos: 154
        Relay_Log_File: edu-mysql-relay-bin.000002
          Relay_Log_Pos: 320

```

```
Relay_Master_Log_File: mysql-bin.000001
Slave_IO_Running: Yes
Slave_SQL_Running: Yes
Replicate_Do_DB:
Replicate_Ignore_DB:
Replicate_Do_Table:
Replicate_Ignore_Table:
Replicate_Wild_Do_Table:
Replicate_Wild_Ignore_Table:
    Last_Errno: 0
    Last_Error:
    Skip_Counter: 0
Exec_Master_Log_Pos: 154
Relay_Log_Space: 531
Until_Condition: None
Until_Log_File:
Until_Log_Pos: 0
Master_SSL_Allowed: No
Master_SSL_CA_File:
Master_SSL_CA_Path:
Master_SSL_Cert:
Master_SSL_Cipher:
Master_SSL_Key:
Seconds_Behind_Master: 0
Master_SSL_Verify_Server_Cert: No
    Last_IO_Errno: 0
    Last_IO_Error:
    Last_SQL_Errno: 0
    Last_SQL_Error:
Replicate_Ignore_Server_Ids:
    Master_Server_Id: 210
        Master_UUID: 9b103a91-c99f-11e9-91d9-00155d0d710a
    Master_Info_File: /usr/local/mysql/data/master.info
        SQL_Delay: 0
    SQL_Remaining_Delay: NULL
Slave_SQL_Running_State: Slave has read all relay log; waiting for more
updates
    Master_Retry_Count: 86400
    Master_Bind:
Last_IO_Error_Timestamp:
Last_SQL_Error_Timestamp:
    Master_SSL_Crl:
    Master_SSL_Crlpath:
Retrieved_Gtid_Set:
Executed_Gtid_Set:
    Auto_Position: 0
Replicate_Rewrite_DB:
    Channel_Name:
    Master_TLS_Version:
1 row in set (0.00 sec)
```

ERROR:
No query specified