

MySQL

Administrator's Guide

Release 5.0

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Installation

1.1. Download and Build

Download and save mysql source archive from <http://dev.mysql.com/downloads/>

```
cd /usr/local/src
tar -xzf mysql-X.X.X.tar.gz
cd mysql-X.X.X
./configure --prefix=/usr/local/mysql-X.X.X
make
make install
```

1.2. Install

Install binaries and create required user and directories.

```
ln -s /usr/local/mysql-X.X.X /usr/local/mysql
groupadd mysql
useradd -g mysql mysql
mkdir -p /var/log/mysql/
chown mysql:mysql /var/log/mysql
mkdir /var/run/mysqld/
chown -R mysql:mysql /var/run/mysqld
```

Initialize mysql files.

```
mkdir -p /var/local/mysql/data/
chown -R mysql:mysql /var/local/mysql/data/
su mysql -c "/usr/local/mysql/bin/mysql_install_db --force --datadir=/var/local/mysql/data/"
```

Create default configuration files.

```
mkdir -p /etc/mysql
mv /usr/local/mysql/conf /etc/mysql
ln -sf /etc/mysql/conf /usr/local/mysql/
chown -R mysql:mysql /etc/mysql
```

Add mysql commands in PATH by modifying /etc/profile.

```
PATH=$PATH:/usr/local/mysql/bin
export PATH
```

1.3. Automatic startup

Copy default startup script.

```
cp /usr/local/mysql/share/mysql/mysql.server /etc/init.d/mysql
```

Adapt it.

```
basedir=/usr/local/mysql  
datadir=/var/local/mysql/data
```

If you are using dash as the default shell, change the first line with

```
#!/bin/bash
```

The configuration file won't be found unless explicitly mentioned. Change the line

```
$bindir/mysqld_safe --datadir=$datadir --pid-file=$server_pid_file $other_args >/dev/null 2>&1 &
```

with

```
$bindir/mysqld_safe --defaults-file=/etc/mysql/conf/my.cnf --datadir=$datadir --pid-file=$server_
```

Add execution right and register automatic startup.

```
chmod a+x /etc/init.d/mysql  
update-rc.d -f mysql defaults
```

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Replication

Detailed steps are available at: <http://dev.mysql.com/doc/refman/5.0/en/replication-howto.html>

2.1. Master configuration

Give rights to slaves (using mysql client):

```
GRANT REPLICATION SLAVE ON *.* TO 'repl'@'%'.mydomain.com IDENTIFIED BY 'slavepass';
```

Edit configuration file to add an id and logging facilities:

```
[mysqld]
log-bin=mysql-bin
server-id=1
```

And restart mysql.

2.2. Slave configuration

Edit configuration file to add an id:

```
[mysqld]
log-bin=mysql-bin
server-id=N
```

Setup the replication (using mysql client):

```
CHANGE MASTER TO MASTER_HOST='master_host_name',
    MASTER_USER='replication_user_name',
    MASTER_PASSWORD='replication_password',
    MASTER_LOG_FILE='',
    MASTER_LOG_POS=4;
```

and start the slave:

```
START SLAVE;
```