

## Configure MySQL Replication

1. Download latest GA release of MySQL from [dev.mysql.com/downloads/](http://dev.mysql.com/downloads/)
2. Copy the download file **mysql-5.1.3.tar.gz** file in `/usr/local`
3. Untar by giving **tar -xzf mysql-5.1.3.tar.gz**
4. create group mysql using **groupadd mysql**
5. create user mysql and link that to user mysql **useradd -g mysql mysql**
6. Your mysql Base directory is located in `/usr/local/mysql-5.1.3`
7. Go to MySQL Base Directory, so your prompt looks like `"mysql-5.1.3]#"` and then run script for creating mysql sytem tables in data-directory. `"mysql-5.1.3]# scripts/mysql_install_db --datadir=/data --user=root"`
8. Copy the sample config file to default path of config file `"mysql-5.1.3]#cp support-files/my-medium.cnf /etc/my.cnf"`
9. Create soft link for mysql `"mysql-5.1.3]# ln -s /usr/local/mysql-5.1.3 /usr/local/mysql"`
10. Now we can start mysql service by `"[]# /usr/local/mysql-5.1.3/bin/mysqld_safe --defaults-file=/etc/my.cnf --basedir=/usr/local/mysql-5.1.3 --datadir=/usr/local/mysql-5.1.3/data --user=mysql &"`
11. Check by logging into mysql `"[]#"/usr/local/mysql-5.1.3/bin/mysql -u root -p -S /tmp/mysql.sock"`

### Replication:

1. Open my.cnf from the /etc folder
2. Lets assume that we want to replicate the database `exampledb`, so put the following lines into `/etc/my.cnf`:

**Server-id=1**

**log-bin=/usr/local/mysql-5.1.3/master-bin.log**

**binlog-do-db=exampledb**

3. Restart mysql for the replication config changes to take effect

```
"bin]#mysqladmin -u root -p shutdown
```

```
"/]# /usr/local/mysql-5.1.3/bin/mysqld_safe --defaults-file=/etc/my.cnf --  
basedir=/usr/local/mysql-5.1.3 --datadir=/usr/local/mysql-5.1.3/data --user=root&"
```

4. Check all changes have taken effect

```
MySQL>show master status;
```

5. You should get a output some thing similar to the below:

<b>File</b>	<b>Position</b>	<b>Binlog-do-db</b>
<b>Master-bin.0001</b>	<b>90</b>	<b>exampledb</b>

6. Create a user for the slave to connect to master

```
MySQL>grant replication slave, replication client,super on *.* to '<username for slave>'@'  
<slaveip>' identified by '<password for slave>';
```

7. Make the following changes in slave my.cnf,

```
Server-id=2
```

```
Master_host=<master host or localhost if u r running in same server>
```

```
Master_user=<slave-user>
```

```
Master_password=<slave-password>
```

```
Master_port=<master-port,default is 3306>
```

```
Master_connect_retry=60
```

8. Restart MySQL in slave for all the config file changes to take effect

9. Creating the database manually in the slave.

```
MySQL>Create database exampledb;
```

10. Create a test table in the master.

11. The table should get replicated in the slave.