

First Setup preparation

On all servers of the (future) cluster issue

```
CREATE USER 'replica'@'%' IDENTIFIED BY 'somethinglongandrandom';  
GRANT REPLICATION SLAVE ON *.* TO 'replica'@'80.93.25.175' IDENTIFIED BY  
'somethinglongandrandom';
```

Repeat latest statement substituting 80.93.25.175 with all of your cluster slave servers

Setup/Repair

On all servers issue:

```
STOP SLAVE;
```

This is the full step-by-step procedure to resync a master-slave replication from scratch:

At the master:

```
RESET MASTER;  
FLUSH TABLES WITH READ LOCK;  
SHOW MASTER STATUS;
```

And **copy the values of the result of the last command** somewhere.

Without closing the connection to the client (because it would release the read lock) issue the command to get a dump of the master:

```
mysqldump -uroot -p --skip-add-locks --all-databases > mysqldump.sql
```

Now you can **release the lock**. To do it perform the following command in the mysql client:

```
UNLOCK TABLES;
```

Now copy the dump file to the slave using scp or your preferred tool.

At the slave:

Lock-out all network connections to their database to avoid writes before cluster synchronization. You can use **iptables** and drop all connections to tcp port 3306 except from localhost (127.0.0.1).

Open a connection to mysql and type:

```
STOP SLAVE;  
RESET SLAVE;
```

Load master's data dump:

```
mysql -uroot -p < mysqldump.sql
```

If you use Debian, it's likely you have overwritten the local debian sysmaint user password. Reset it using the one from the /etc/mysql/debian.cnf file.

The first time issue:

```
CHANGE MASTER TO
  MASTER_HOST='deimos.units.it',
  MASTER_USER='xxxxxxxxx',
  MASTER_PASSWORD='xxxxxxxxxx',
  MASTER_PORT=3306,
  MASTER_LOG_FILE='mysql-bin.000001',
  MASTER_LOG_POS=106;
```

subsequent times issue:

```
CHANGE MASTER TO MASTER_LOG_FILE='mysql-bin.000001', MASTER_LOG_POS=106;
```

Where the values of the above fields are the ones you copied before.

Finally type

```
START SLAVE;
```

Re enable network connections to other cluster nodes.

And to check that everything is working again, if you type

```
SHOW SLAVE STATUS \G;
```

you should see:

```
Slave_IO_Running: Yes
Slave_SQL_Running: Yes
```

That's it!

Don't forget to re-enable network connections to clients!

What's next

For each new server (or on the first server if you need multimaster or circular replication) do the

```
STOP SLAVE;
```

on its source, without closing connection afterward, issue

```
RESET MASTER;  
FLUSH TABLES WITH READ LOCK;  
SHOW MASTER STATUS;
```

on the new server:

```
STOP SLAVE;  
RESET SLAVE;  
CHANGE MASTER TO MASTER_LOG_FILE='mysql-bin.000001', MASTER_LOG_POS=106;  
START SLAVE;
```

check with

```
SHOW SLAVE STATUS \G;
```

on its source don't forget to issue

```
UNLOCK TABLES;
```

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