

# Step 4 — Master Replication over SSL

Check following attributes on both master and replication servers.

```
sudo nano /etc/mysql/my.cnf
```

On Master server

```
[mysqld]

server-id = 1
replicate-same-server-id = 0
auto-increment-increment = 2
auto-increment-offset = 1

relay-log = /var/lib/mysql/relay-bin
relay-log-index = /var/lib/mysql/relay-bin.index
relay-log-info-file = /var/lib/mysql/relay-log.info

log-error = /var/lib/mysql/mysql.err
master-info-file = /var/lib/mysql/mysql-master.info
log-bin = /var/lib/mysql/bin
```

On Replication Server

```
[mysqld]

server-id = 2
replicate-same-server-id = 0
auto-increment-increment = 2
auto-increment-offset = 1

relay-log = /var/lib/mysql/relay-bin
relay-log-index = /var/lib/mysql/relay-bin.index
```

```
relay-log-info-file = /var/lib/mysql/relay-log.info
```

```
log-error = /var/lib/mysql/mysql.err
```

```
master-info-file = /var/lib/mysql/mysql-master.info
```

```
log-bin = /var/lib/mysql/bin
```

## Restart MySQL on both servers

```
systemctl restart mysql
```

## On Master server create a directory to save certificates

```
sudo chmod -R 777 /var/lib/
```

```
mkdir /var/lib/mysql-certs
```

```
cd /var/lib/mysql-certs/
```

## CA cert

```
openssl genrsa 2048 > MySQLCAKey.pem
```

Generating RSA private key, 2048 bit long modulus (2 primes)

.....+++++

.....+++++

e is 65537 (0x010001)

```
openssl req -new -x509 -nodes -days 3600 -key MySQLCAKey.pem -out MySQLCA-Cert.pem
```

You are about to be asked to enter information that will be incorporated into your certificate request.

What you are about to enter is what is called a Distinguished Name or a DN.

There are quite a few fields but you can leave some blank

For some fields there will be a default value,

If you enter '.', the field will be left blank.

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Country Name (2 letter code) [AU]:

State or Province Name (full name) [Some-State]:

Locality Name (eg, city) []:

Organization Name (eg, company) [Internet Widgits Pty Ltd]:

Organizational Unit Name (eg, section) []:

Common Name (e.g. server FQDN or YOUR name) []:MySQL Replication CA

Email Address []:

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