

Step 3: Configure the Master Node (Server)

The next step is to configure the **Master** node and grant the **slave** node access to it.

First, we need to edit the **mysql-server.cnf** configuration file.

```
$ sudo vim /etc/my.cnf.d/mysql-server.cnf
```

Add the following lines under the `[mysqld]` section.

```
bind-address      = 10.128.0.14
```

```
server-id         = 1
```

```
log_bin           = mysql-bin
```

Once done, save the changes and exit. Then restart the **MySQL** server.

```
$ sudo systemctl restart mysqld
```

Next, log into **MySQL** shell.

```
$ sudo mysql -u root -p
```

Execute the following commands to create a database user that will be used to bind the master and slave for replication.

```
mysql> CREATE USER 'replica'@'10.128.15.211' IDENTIFIED BY  
'P@ssword321';
```

```
mysql> GRANT REPLICATION SLAVE ON *.* TO 'replica'@'10.128.15.211';
```

```
mysql> FLUSH PRIVILEGES;
```

```
mysql> EXIT;
```

Verify the status of the master.

```
mysql> SHOW MASTER STATUS\G
```

Configure the Slave Node (Server)

Now, head back to the Slave node. Once again, edit the **mysql-server.cnf** configuration file.

```
$ sudo vim /etc/my.cnf.d/mysql-server.cnf
```

As before, paste these lines under the `[mysqld]` section. Change the IP address to correspond to the slave's IP. Also, assign a different **server-id**. Here we have assigned it the value of **2**.

```
bind-address      = 10.128.15.211
```

```
server-id         = 2
```

```
log_bin           = mysql-bin
```

Save the changes and exit the file. Then restart the database server.

```
$ sudo systemctl restart mysqld
```

To configure the **Slave** node to replicate from the Master node, log in to the Slave's **MySQL** server.

```
$ sudo mysql -u root -p
```

First and foremost, stop the replication threads:

```
mysql> STOP SLAVE;
```

Then execute the following command to configure the slave node to replicate databases from the master.

```
mysql> CHANGE MASTER TO  
      MASTER_HOST='10.128.0.14' ,  
      MASTER_USER='replica' ,
```

```
MASTER_PASSWORD='P@ssword321' ,  
MASTER_LOG_FILE='mysql-bin.000001' ,  
MASTER_LOG_POS=1232;
```

Then start the slave replication threads:

```
mysql> START SLAVE;
```