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MySQL Replication - MySQL ??????

????Replication(??)

- ??(Reporting) - ?????????????????? Master DB ??????????????????
- ??? - ?????? Slave DB????????????????? Slave DB ?????????????? Master DB ??????????
- ??? - ??????????????????????

???????????

???? - <http://dev.mysql.com/doc/refman/5.0/...atibility.html>

?? MySQL 4.1.x ??? MySQL 5.0.x??? MySQL 5.0.x ??? MySQL 5.1.x????  
??

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Master DB)

Purpose: Production

IP address: 10.10.10.112

DB version: mysql-server-5.0.22-2.2.el5\_1.1

Slave DB)

Purpose: Backup or Reporting

IP address: 10.10.10.134

DB version: mysql-server-5.0.45-7.el5

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?????? **Master DB**????? Slave DB ?????????????? **REPLICATION SLAVE**????????????? repl???? replpass?

? Master DB ????? SQL statements:

reference to undefined name 'syntax' Exception of type  
'MindTouch.Deki.Script.Runtime.DekiScriptUndefinedNameException' was thrown. (click for details)  
???????? Slave DB ?????????????????????????????

Tip:

????????????? Slave DB ? IP ?????????????????????????????? domain ?????? domain name ??????????????????????????????

????????????????????? Slave DB ?????????????????? Slave DB ???????

shell> mysql -u repl --password='replpass' -h 10.10.10.112

?? **Master DB**

????? Master DB ????? binary logging????????? DB ?????????????? server-id ?????????????????????????????????????? 1 - 2<sup>32</sup> ?

??? **MySQL** ??? /etc/my.cnf ??????

shell> service mysqld stop

shell> vi /etc/my.cnf

```
[mysqld]
# Replication on Master DB
log-bin=mysql-bin
server-id=1
```

shell> service mysqld start

?? Master DB ????

???? Slave DB ??????? Master DB ??????????????? Slave DB ???  
???? Master DB ??? tables ???????

? Master DB ??? SQL statements:

```
mysql> FLUSH TABLES WITH READ LOCK;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> SHOW MASTER STATUS;
```

File	Position	Binlog_Do_DB	Binlog_Ignore_DB
mysql-bin.000001	5752		

1 row in set (0.00 sec)

???????????????? Slave DB ??????

File - binary log ??  
 Position - ??????

???  
 ?? InnoDB tables???? FLUSH TABLES WITH READ LOCK ?????? table ? COMMIT ???  
 ?????? binary logging????? File & Position ?????????4?

?? Slave DB

?? MySQL ??? /etc/my.cnf ??????

shell> service mysqld stop  
 shell> vi /etc/my.cnf

```
[mysqld]
# Replication on Slave DB
server-id=2
```

Tips:  
 ?????? Slave DB????? DB ?????? server-id ?????????? IP ?????????DB??? server-id ????????? 0?  
 ? Slave DB ?????? binary logging??? Slave DB????????? Master DB?

????? Master ? Slave ???

?? Master DB ?????????? tables ?????????????????? Slave DB?

?? MySQL ?? tar ??????? Master DB ?????

```
shell> service mysqld stop
shell> cd /var/lib/mysql
shell> tar -czf ~/my_db.tar.gz <my_db_name>
shell> service mysqld start
```

```
shell> mysql -u root -p
mysql> UNLOCK TABLES;
```

??? Slave DB ? MySQL ???? tar ???? Slave DB ?????????? --skip-slave ?? MySQL?? Slave DB ?????

```
shell> service mysqld stop
shell> cd /var/lib/mysql
shell> tar -xzf ~/my_db.tar.gz
shell> mysqld_safe --skip-slave &
```

????????????????? Master DB ?????????? Master DB ??????????????????

```
mysql> UNLOCK TABLES;
```

? Slave DB ?? Master ????

? Slave DB ???? statements:

```
mysql> CHANGE MASTER TO
-> MASTER_HOST='10.10.10.112',
-> MASTER_USER='repl',
-> MASTER_PASSWORD='replpass',
-> MASTER_LOG_FILE='mysql-bin.000001',
-> MASTER_LOG_POS=5752;
mysql> START SLAVE;
```

??????? Master DB ???????

????Slave DB ????? Master DB ?????????????????????? Slave DB ? MySQL ????? /var/lib/mysql??????  
master.info ? relay-log.info????????? Master DB ??????

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- <http://dev.mysql.com/doc/refman/5.0/...on-status.html>
- <http://dev.mysql.com/doc/refman/5.0/...ve-status.html>

? Slave DB ???? statement:

```
mysql> show slave status \G
***** 1. row *****
Slave_IO_State: Waiting for master to send event
Master_Host: 10.10.10.112
Master_User: repl
Master_Port: 3306
Connect_Retry: 60
Master_Log_File: mysql-bin.000002
Read_Master_Log_Pos: 98
Relay_Log_File: mysqld-relay-bin.000003
Relay_Log_Pos: 235
Relay_Master_Log_File: mysql-bin.000002
Slave_IO_Running: Yes
Slave_SQL_Running: Yes
Replicate_Do_DB:
Replicate_Ignore_DB:
Replicate_Do_Table:
Replicate_Ignore_Table:
Replicate_Wild_Do_Table:
Replicate_Wild_Ignore_Table:
Last_Errno: 0
Last_Error:
Skip_Counter: 0
Exec_Master_Log_Pos: 98
Relay_Log_Space: 235
Until_Condition: None
Until_Log_File:
Until_Log_Pos: 0
Master_SSL_Allowed: No
Master_SSL_CA_File:
Master_SSL_CA_Path:
Master_SSL_Cert:
Master_SSL_Cipher:
Master_SSL_Key:
Seconds_Behind_Master: 0
1 row in set (0.00 sec)
```

\G - ??????????????????

? Master DB ?? Slave DB ??????? statement????? **Binlog Dump?**

```
mysql> show processlist \G;
***** 2. row *****
Id: 3
User: repl
Host: 10.10.10.134:2065
```

db: NULL

Command: Binlog Dump

Time: 1381

State: Has sent all binlog to slave; waiting for binlog to be updated

Info: NULL

2 rows in set (0.01 sec)

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- [MySQL 5.0 Reference Manual :: 16 Replication](#)
- [How to Setup MariaDB \(Master-Slave\) Replication in CentOS/RHEL 7 and Debian 8](#)
- [How to install and configure MariaDB Galera as master to master replication cluster on Ubuntu 16.04 LTS](#)
- [How to Repair MySQL Replication](#)