Replication

Replication setup on a windows server :

Server1 Settings
==========
1. Put the option file my.ini(C:\ProgramData\MySQL\MySQL Server 5.7) to Server1 with these settings:
[mysqld]
log-bin=mysql-bin
server-id = 1
auto_increment_increment = 10
auto_increment_offset = 1

2. Configure the server:
create a user for replication process:
create user replicant@'%' identified by 'password';

Grant access rights:
GRANT SELECT, PROCESS, FILE, SUPER, REPLICATION CLIENT, REPLICATION SLAVE, RELOAD ON *.* TO replicant@'%';
Flush Privileges;

Specify the info for the serve2:
CHANGE MASTER TO
MASTER_HOST='ip_of_server2',
MASTER_USER='replication_user_name_on_server2',
MASTER_PASSWORD='replication_password_on_server2';

Start the listerner:
Start slave;

Verify whether the replication is working:
show slave status\G

Server2 Settings
==========
1. Put the option file my.ini on to Server2 with these settings:
[mysqld]
log-bin=mysql-bin
server-id= 2
auto_increment_increment = 10
auto_increment_offset = 2

2. Configure the server:
create a user for replication process:
cd /usr/local/mysql/bin
./mysql -p -u root

create user replicant@'%' identified by 'password';

Grant access rights:
GRANT SELECT, PROCESS, FILE, SUPER, REPLICATION CLIENT, REPLICATION SLAVE, RELOAD ON *.* TO replicant@'%';
Flush Privileges;

Specify the info for the serve1:
CHANGE MASTER TO
MASTER_HOST='ip_of_server1',
MASTER_USER='replication_user_name_on_server1',
MASTER_PASSWORD='replication_password_on_server1';

Example:
#
CHANGE MASTER TO MASTER_HOST='125.564.12.1',
MASTER_USER='replicant', MASTER_PASSWORD='password';

Start the listerner:
Start slave;

When using **mysqldump**, you should stop replication on the slave before starting the dump process to ensure that the dump contains a consistent set of data:

STOP SLAVE;

mysqldump --user=root --password=your_password --all-databases
>"a:\mysql\all_databases.sql"
Mysql -u username -p <database-name> < all_databases.sql

$ mysql -u [uname] -p[pass]
[db_to_restore] < [all_databases.sql]

Issues:

1. If error like “Got fatal error 1236 from master when reading data from binary log: 'Binary log is not open'“ occurs that means binary logging is not enable.We can check this using SHOW BINARY LOGS; command.
2. Verify log-bin=mysql-bin is properly mentioned in my.ini file or not .
   If error like “ The slave I/O thread stops because master and slave have equal MySQL server ids” occurs make sure server id is different for master and slave.
   Check server id with SHOW VARIABLES LIKE ‘server_id’ command.
   User can set server id with SET GLOBAL server_id=x command or
   Can set server-id in my.ini file and restart mysql sever .
3. To remove slave “RESET SLAVE ALL;” command can be used.