**Rebuilding the Live Database in Place**

1. Schedule Outage and put up maintenance message
2. Redirect Traffic
3. Disable Cron Jobs
4. Set Database to Read Only
   1. FLUSH TABLES WITH READ LOCK;
   2. SET GLOBAL read\_only = 1;

Verified to work; start session in putty and leave connected until backup is completed (Use another SSH session to backup data.

1. Ensure Rep servers are caught up then
   1. SHOW SLAVE STATUS \G;
      1. Look for Seconds\_Behind\_Master: 0
   2. Issue Reset Slave;
   3. Issue Stop Slave;
2. Dump Live database
   1. mysqldump --routines --single-transaction --quick -usomeuser -p --host=localhost dreamsite | gzip > /home/carls/dd\_full.sql.gz
   2. mysqldump --routines --single-transaction --quick -usomeuser -p --host=localhost dreamlog | gzip > /home/carls/dd\_log.sql.gz
3. Clear Read Lock
4. Drop our databases that contain innoDB tables: dreamsite; dreamlog;
5. Stop Live DB Server
6. Delete ibdata1 : rm /var/lib/mysql/ibdata1
7. Delete innodb logs: rm /data/logdisk/innodblogs/ib\*
8. Add the following line to my.cnf:
   1. innodb\_file\_per\_table=ON
9. Start Live DB server
10. Create databases (dreamsite; dreamlog; used Navicat
11. Import the dumped backups
    1. { echo 'SET sql\_log\_bin = 0;' ; gzip -dc /home/carls/dd\_log.sql.gz ; } | mysql -uroot -p dreamlog
    2. { echo 'SET sql\_log\_bin = 0;' ; gzip -dc /home/carls/dd\_full.sql.gz ; } | mysql -uroot -p dreamsite
    3. SET @@foreign\_key\_checks = OFF;
    4. SET @@unique\_checks = OFF
    5. The above may speed up the import
12. Enable binary logging and do a “MASTER RESET”
13. Run show master status to get coords
14. Start up Rep Servers
15. Set Change Master to New Coordinates
    1. CHANGE MASTER TO MASTER\_LOG\_FILE='mysql-bin.00000x', MASTER\_LOG\_POS=xxxxxx;
16. Test Replication
17. Enable Cron Jobs
18. Enable Website and remove Maintenance message