

Application Note



LAM Database Backup(s) & Restoration in Windows



It is vital to back up your LAM MySQL database regularly to ensure the safety of your companies' data. This document will outline the steps needed to, backup your LAM MySQL database, and subsequently restore that data to your LAM installation.

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Abstract:

It is vital to back up your LAM MySQL database regularly to ensure the safety of your companies' data. This document will outline the steps needed to, backup your LAM MySQL database, automate the backup process, and subsequently restore that data to your LAM installation.

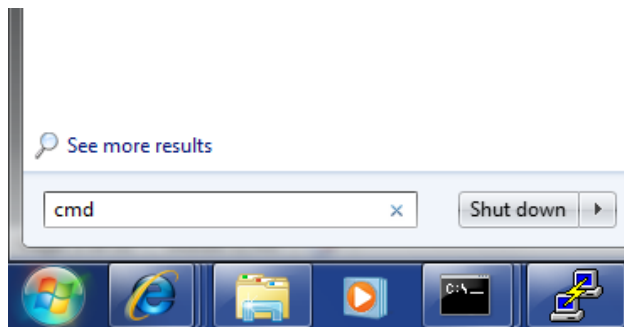
What You Will Need:

When backing up, creating and scheduling automated backups, and restoring your LAM database you will need to be able to have access to the machine that is serving LAM. You will also need to have some familiarity with using the command line in the Windows environment. Additional experience scheduling tasks in Windows will aid you in utilizing our automatic backup script; though each step is clearly explained.

Performing a One Time Backup In Windows:

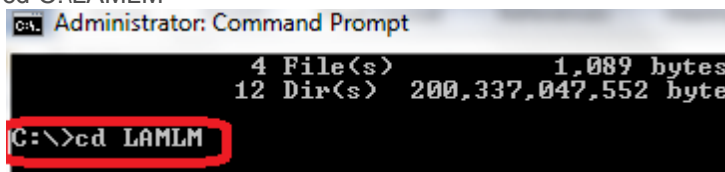
The process of backing up your MySQL Database on Windows is simple. Follow the steps below, **note the LAMLM system MUST BE RUNNING!** (i.e. as a service or by the .bat files).

1. Click Start and then Run. Type in "cmd" in the box and hit enter. A command prompt window should appear.



(Screenshot of Windows Start -> Run -> "cmd" command)

Type in 'cd C:\LAMLM'



(Screenshot of CD LAMLM Command)

2. Type in 'MySQLx.x.xx\bin\mysqldump.exe -ulamuser -plampassword lamdb > LAM_BACKUP.SQL'

```
C:\LAMLML>mysql-5.1.49\bin\mysqldump.exe -ulamuser -plampassword lamdb > LAM_BACKUP.SQL
C:\LAMLML>
```

(Screenshot of mysqldump.exe Command)

3. When complete, you should get the Command prompt back (C:\LAMLML >)
4. Move your LAM_BACKUP.SQL to a secure location, and name the file to reflect the date and time of the backup.

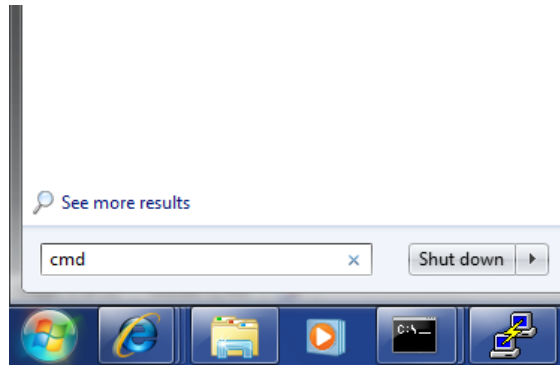
```
Directory of C:\LAMLML
12/14/2010  04:29 PM    <DIR>          .
12/14/2010  04:29 PM    <DIR>          ..
12/07/2010  02:12 PM    <DIR>          apache-tomcat-7.0.2
12/02/2010  01:04 PM    <DIR>          Installers
12/02/2010  01:13 PM             0 lam.log
12/07/2010  02:14 PM    50,683 LAMLML_uninstall.exe
12/14/2010  04:30 PM    473,384 LAM_BACKUP.SQL
12/07/2010  02:14 PM    <DIR>          mysql-5.1.49
12/07/2010  02:15 PM    <DIR>          rtda
12/07/2010  02:14 PM    1,283 start_lamlm.bat
11/30/2010  04:14 PM    182 stop_lamlm.bat
```

(Screenshot of successfully created SQL Backup File)

Restoring LAM Backup(s) in Windows:

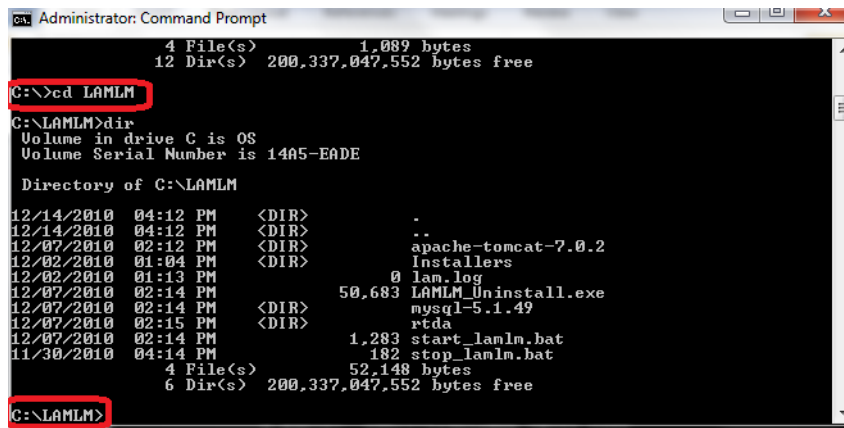
To restore the database you'll need to have an available SQL file. The first thing you will need to do is to run stop_lam(or lm) in the Windows LAM directory. If you are running services be sure to stop all the services on the system. Follow the steps below:

1. Click start and then Run. Type in "cmd" in the box and hit enter. A command prompt window should appear.



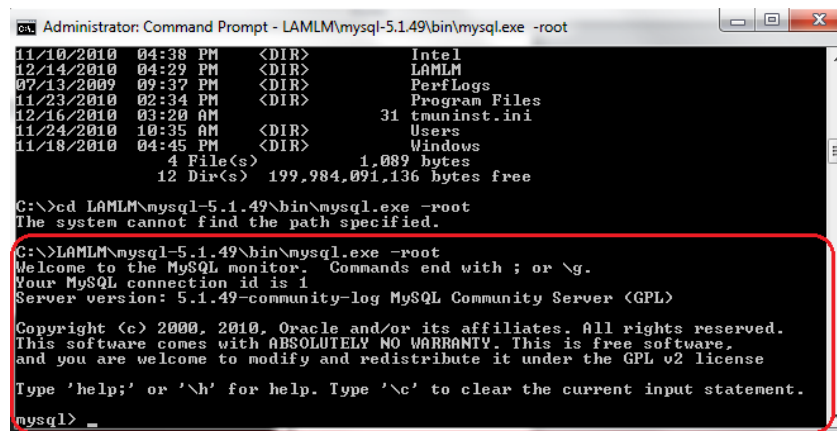
(Screenshot of Windows Start -> Run -> "cmd" command)

2. Type in 'cd C:\LAMLML'



(Screenshot of CD LAMLML Command)

3. Type in 'MySQLx.x.xx\bin\mysql.exe -uroot' You should see a new prompt that says 'mysql >'



(Screenshot of MySQL "root" Login)

4. At the mysql > prompt type in "DROP DATABASE lamdb;" This will remove the old database.

```
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 3
Server version: 5.1.49-community-log MySQL Community Server (GPL)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| lamdb     |
| mysql     |
| test      |
+-----+
4 rows in set (0.00 sec)

mysql> drop database lamdb;
Query OK, 0 rows affected (0.00 sec)

mysql>
```

(Screenshot of MySQL “drop database” Command)

- At the mysql > prompt type in “CREATE DATABASE lamdb;” This will create the database for import of data.

```
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| lamdb     |
| mysql     |
| test      |
+-----+
4 rows in set (0.00 sec)

mysql> drop database lamdb;
Query OK, 0 rows affected (0.00 sec)

mysql> create database lamdb;
Query OK, 1 row affected (0.00 sec)

mysql>
```

(Screenshot of MySQL “create database” Command)

- At the mysql > prompt type in “use lamdb;”

```
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| lamdb     |
| mysql     |
| test      |
+-----+
4 rows in set (0.00 sec)

mysql> drop database lamdb;
Query OK, 0 rows affected (0.00 sec)

mysql> create database lamdb;
Query OK, 1 row affected (0.00 sec)

mysql> use lamdb;
Database changed

mysql>
```

(Screenshot of MySQL “use lamdb” Command)

- At the mysql > prompt type in “source C:\path\to\lambbackupfile.sql” where you must put the path to the MySQL restore file.

```
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases
mysql> show databases;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'datab
ases'
show databases' at line 1
mysql> show databases;
+-----+
| Database |
+-----+
| information_schena |
| landb |
| mysql |
| test |
+-----+
4 rows in set (0.01 sec)

mysql> use landb;
Database changed
mysql> source C:\path\to\your_
```

(Screenshot of Example Backup Path)

- 8. Type in 'exit'
- 9. Now you can restart LAM by closing all prompt windows and running start_lam or start_lamlm script.

For Technical Support call TeamEDA Inc. at 978-251-7510 or email support@teameda.com