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Ubuntu Linux Backup MySQL server Shell Script

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Q. I'm new to Linux and I've dedicated VPS server running Ubuntu Linux. I'm using CMS software and MySQL act as database server. Can you explain how can I backup all mysql server databases to ftp server IP address called 10.1.5.2?

A. You can use mysqldump command to backup database. The mysqldump client is a backup program. It can be used to dump a database or a collection of databases for backup or for transferring the data to another SQL server. The dump contains SQL statements to create the table or populate it, or both.

[1]

Once database is dumped, you need to upload the same to ftp server. Use lftp client to upload all files.

Install lftp

lftp is a file transfer program that allows sophisticated ftp, http and other connections to other hosts. If site is specified then lftp will connect to that site otherwise a connection has to be established with the open command. To install lftp, enter:

```
sudo apt-get install lftp
```

Shell script to backup MySQL database server

Following is the shell script. It will dump all database to /backup/mysql and later it will upload to FTP server. You need to setup correct username and password before using the script:

```
#!/bin/bash
### MySQL Server Login Info ###
MUSER="root"
MPASS="MYSQL-ROOT-PASSWORD"
MHOST="localhost"
MYSQL="$(which mysql)"
MYSQLDUMP="$(which mysqldump)"
BAK="/backup/mysql"
GZIP="$(which gzip)"
### FTP SERVER Login info ###
FTPU="FTP-SERVER-USER-NAME"
FTPP="FTP-SERVER-PASSWORD"
FTPS="FTP-SERVER-IP-ADDRESS"
NOW=$(date +"%d-%m-%Y")

[ ! -d $BAK ] && mkdir -p $BAK || /bin/rm -f $BAK/*

DBS="$($MYSQL -u $MUSER -h $MHOST -p$MPASS -Bse 'show databases')"
for db in $DBS
do
 FILE=$BAK/$db.$NOW-$(date +"%T").gz
 $MYSQLDUMP -u $MUSER -h $MHOST -p$MPASS $db | $GZIP -9 > $FILE
done

lftp -u $FTPU,$FTPP -e "mkdir /mysql/$NOW;cd /mysql/$NOW; mput /backup/mysql/*; quit" $FTPS
```

Save script as /home/your-name/mysql.backup.sh file. Setup executable permission:

```
$ chmod +x /home/your-name/mysql.backup.sh
```

To backup MySQL, enter:

```
/home/your-name/mysql.backup.sh
```

OR

```
sudo /home/your-name/mysql.backup.sh
```

Run MySQL backup script as cron job

To automate procedure setup a cron job [2]. For example run backup everyday at midnight (i.e once a day), enter:

```
$ sudo crontab -e
```

Append following cron job:

```
@midnight /home/you/mysql.backup.sh >/dev/null 2>&1
```

Save and close the file. Please note that above script should work with other Linux distros or UNIX like oses.

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[1] Image: **http://www.cyberciti.biz/faq/faq/category/ubuntu-linux/**
[2] cron job: **http://www.cyberciti.biz/faq/how-do-i-add-jobs-to-cron-under-linux-or-unix-oses/**