# **Backup MySQL database and directly upload to AWS S3 bucket**

## Prerequisites:

1. Create S3 bucket
2. *MySQL database user name and password*
3. AWS account with access to IAM and S3

## Step 1 - Install AWS CLI

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| **# sudo yum install python**  **# curl -O https://bootstrap.pypa.io/get-pip.py**  **# python get-pip.py**  # **pip --version**  **# sudo yum install awscli**  **# pip install awscli**  **# aws configure** |

Before we start using AWS CLI tool, we need to configure it by running the following command

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| **# aws configure** |

This will ask you to provide your

* AWS Access Key ID
* AWS Secret Access Key
* Default region
* Default output format

If you have done everything correctly you should be able to see the list of S3 buckets by running below command

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| **# aws s3 ls** |

## Step 2 - Create a bash script

We will create a shell script used to back up MySQL database and upload it to S3 bucket.

Copy the following content to the script file. This script uses**mysqldump** to dump the database, and It uploads the file to S3 by using the AWS CLI

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| **# vi mysqlbackup.sh**  #!/bin/bash  # Database credentials  USER="YourDatabaseUserName"  PASSWORD="YourPassword"  HOST="localhost"  DB\_NAME="database that you want to backup"  #Backup\_Directory\_Locations  BACKUPDIR="yourback\_directory\_location"  TSTAMP=$(date +"%d-%b-%Y")  S3BUCKET="your-s3-bucket"  mysqldump -h$HOST -u$USER $DB\_NAME -p$PASSWORD | gzip > $BACKUPDIR/$DB\_NAME-$TSTAMP.sql.gz  # Move file from server to your S3 bucket  aws s3 mv $BACKUPDIR/$DB\_NAME-$TSTAMP.sql.gz s3://$S3BUCKET/ |

## Step 3 - Let’s run the script

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| **# chmod +x mysqlbackup.sh**  **# sh mysqlbackup.sh** |

## 

## Step 4 - Schedule it with Crontab:

To add a cron job on Ubuntu 18.04 server, run the following command

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| **# crontab -e** |

Add following line at the end of the file

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| **#Run the database backup script every day at 12.30 AM**  **29 0 \* \* \* /path-to-your-script/mysql\_backup.sh** |