

MySQL Database Backup & Restore Guide (CLI)

Backup

1. Backup Configuration

Step 1: Navigate to BackupEverything CLI Directory

```
cd /usr/local/obm/bin
```

Step 2: Generate a New Backup Set Template

Run the configurator:

```
bash RunConfigurator.sh
```

Login with your credentials.

```
root@debian:/usr/local/obm/bin# bash RunConfigurator.sh
Startup BackupEverythingPro ...

Login Menu
-----
(1). Login
(2). Change Network Settings
(3). Forgot Password
(4). Quit
-----
Your Choice: 1

Login Name : username
Password :
```

From the menu:

```
-----
(1). List Backup Sets
(2). Delete Backup Set
(3). Export Backup Set Settings to XML
(4). Import Backup Set Settings from XML
(5). Generate new Backup Set Settings Template
(6). Change Language [English]
```

```
(7). Update Profile Settings
(8). Quit
-----
```

Select **Option 5** to generate a new XML template.

```
Main Menu
-----
(1). List Backup Sets
(2). Delete Backup Set
(3). Export Backup Set Settings to XML
(4). Import Backup Set Settings from XML
(5). Generate new Backup Set Settings Template
(6). Change Language [English]
(7). Update Profile Settings
(8). Quit
-----
Your Choice: █
```

Select Mysql Database

```
-----
Your Choice: 5

Choose a template from a backup set type
-----
(1). File
(2). MySQL Database
(3). MariaDB
(4). Oracle Database Server
(5). Linux Bare Metal
-----
Your Choice: 2

XML file successfully exported to /root/.obm/config/backupSet.xml
Main Menu
```

Step 3: Edit the Backup Configuration XML

The file is saved at:

```
/root/.obm/config/BackupSet.xml
```

Edit the file using a text editor:

```
nano /root/.obm/config/BackupSetSettings.xml
```

OR use Mousepade

Example MySQL Backup Configuration

```
<?xml version="1.0" encoding="UTF-8"?>
<Setting>
  <Key name="Backup Set Setting" allowMultiple="Y">
    <!-- Backup Set Info -->
    <Value data="MySQL" name="Type" type="string" />
    <Value data="mysql-prod-backup" name="Name" type="string" />
    <Value data="/tmp" name="Temporary Working Directory" type="string" />
    <Value data="Y" name="Delete temporary files after backup" type="boolean" />
    <Value data="GzipDefaultCompression" name="Compression Type" type="string" />

    <!-- MySQL Database Connection -->
    <Key name="MySQL Database Setting">
      <Value data="admin" name="Username" type="string" />
      <Value data="mypassword" name="Password" type="string" />
      <Value data="localhost" name="Host" type="string" />
      <Value data="3306" name="Port" type="string" />
      <Value data="/usr/bin/mysqldump" name="mysqldump path" type="string" />
    </Key>

    <!-- Databases to Backup -->
    <Key name="Selected Source" allowMultiple="Y">
      <Value data="MySQL/customer_db" name="Path" type="string" />
      <Value data="MySQL/orders_db" name="Path" type="string" />
    </Key>

    <!-- Schedule (Optional) -->
    <Key name="Schedule Settings">
      <Value data="Y" name="Enable" type="boolean" />
      <!-- Daily at 2 AM -->
      <Key name="Daily Schedule Settings" allowMultiple="Y">
```

```

                                <Value data="Nightly-Backup" name="Name" type="string" />
                                <Value data="2" name="Hour" type="integer" />
                                <Value data="0" name="Minute" type="integer" />
                                <Value data="-1" name="Interval" type="integer" />
                            />
                                </Key>
                            </Key>

                            <!-- Backup Destination -->
                            <Key name="Destination Settings">
                                <Value data="1" name="concurrency-level" type="integer" />
                            />
                                <Key name="Local Destination Settings" allowMultiple="Y">
                                    <Value data="local-backup" name="Name" type="string" />
                                    <Value data="/backups/mysql" name="Local Path" type="string" />
                                </Key>
                            </Key>

                            <!-- Deduplication -->
                            <Key name="Deduplication Setting">
                                <Value data="Y" name="Enable" type="boolean" />
                                <Value data="B" name="Deduplication level" type="string" />
                            </Key>
                        </Key>
                    </Setting>

```

.XML Explanation

- **Type:** MySQL
(Type of backup set - must be "MySQL" for database backups)
- **Name:** mysql-prod-backup
(Unique identifier for this backup set. Use alphanumeric names without spaces.)
- **Temporary Working Directory:** /tmp
(Storage for temporary files during backup. Ensure the path has sufficient space.)
- **Delete temporary files after backup:** Y
(Clean up temp files after backup? Y=Yes, N=No.)

- **Compression Type:** `GzipDefaultCompression`
(Options: `GzipDefaultCompression` (balanced), `GzipBestSpeedCompression` (fast), `SnappyDefaultCompression` (fast local), or blank for no compression.)
-

MySQL Database Setting

- **Username:** `admin`
(MySQL user with backup privileges.)
 - **Password:** `mypassword`
(Password for the MySQL user.)
 - **Host:** `localhost`
(IP/hostname of MySQL server. Use `127.0.0.1` for localhost.)
 - **Port:** `3306`
(MySQL server port. Default is `3306`.)
 - **mysqldump path:** `/usr/bin/mysqldump`
(Path to `mysqldump` binary. Verify with `which mysqldump`.)
-

Selected Source

- **Path:** `MySQL/customer_db`, `MySQL/orders_db`
(Databases to back up. Format: `MySQL/database_name`. Add multiple `<Key>` blocks for more databases.)
-

Schedule Settings

- **Enable:** `Y`
(Enable scheduling? `Y`=Yes, `N`=No.)

Daily Schedule Example

- **Name:** `Nightly-Backup`
(Descriptive name for the schedule.)
- **Hour:** `2`
(2 AM. Use 24-hour format.)
- **Minute:** `0`
(:00 minutes.)

- **Interval:** `-1`
(`-1`=run once daily. For periodic backups, set minutes (e.g., `360`=6 hours).)

Destination Settings

- **concurrency-level:** `1`
(Number of parallel uploads. Increase for faster cloud backups.)
- **Local Destination Settings**
 - **Name:** `local-backup`
(Name for this storage target.)
 - **Local Path:** `/backups/mysql`
(Directory to store backups. Ensure write permissions.)

Step 4: Import the Backup Configuration

Run the configurator again:

```
bash RunConfigurator.sh
```

Select **Option 4** to import the XML file.

```
Main Menu
-----
(1). List Backup Sets
(2). Delete Backup Set
(3). Export Backup Set Settings to XML
(4). Import Backup Set Settings from XML
(5). Generate new Backup Set Settings Template
(6). Change Language [English]
(7). Update Profile Settings
(8). Quit
-----
Your Choice: 4
```

Enable Encryption

```
Reading xml...
Reading xml...Done
Verifying destination 'local'...
New backup set created.
Enable Encryption (Y/N) ? Y
Choose Encryption Type
-----
(1). Default
(2). User password
(3). Custom
-----
Your Choice: 1
XML imported, uploading to server...
XML successfully uploaded to server
```

Step 5: Verify Backup Set

Select **Option 1** to list backup sets and confirm your configuration.

```
Main Menu
-----
(1). List Backup Sets
(2). Delete Backup Set
(3). Export Backup Set Settings to XML
(4). Import Backup Set Settings from XML
(5). Generate new Backup Set Settings Template
(6). Change Language [English]
(7). Update Profile Settings
(8). Quit
-----
Your Choice: 1

Select a Backup Set to show more details
-----
(1). test1
(2). default-backup-set-name-1
(3). default-backup-set-name-2
(4). mysql-test
(5). mysql-prod-backup
-----
Your Choice: █
```

Step 6: Change Destination to UK Storage(cloud)

To switch from **local** to **cloud**:

1. Log in to the [BackupEverything Customer Portal](https://uk.onlinedatastorageuk.co.uk/) >

<https://uk.onlinedatastorageuk.co.uk/>

2. Edit the backup set and update the destination

The screenshot shows the BackupEverything Customer Portal interface. The top navigation bar includes 'Monitoring' and 'Backup / Restore'. The 'Backup / Restore' section contains two tiles: 'User' and 'Run Direct'. A red arrow points from the 'User' tile to the 'Backup Set' option in the left-hand navigation menu. The 'User Profile' section is expanded, showing 'Backup Set' as the selected option. Below this is the 'Manage Backup Set' section, which includes a table of backup sets.

☐	Name	Type	Version	Owner	Execute Job
☐	test1 (1750496829084)		--	Router	--
☐	default-backup-set-name-1 (1751474128198)		--	debian	--
☐	default-backup-set-name-2 (1752683225091)		--	Router	--
☐	mysql-test (1753455294509)		--	debian	--
☐	mysql-prod-backup (1753462661989)		--	debian	--

General

Source

Backup Schedule

Destination

Deduplication

Retention Policy

Command Line Tool

Bandwidth Control

IP Allowed for Restore

Others

Destination

Backup Mode

Sequential

	Name	Rebuild
☐	local	--

Add Destination

☐	Name
☐	 UK Storage

Destination

Backup Mode

Sequential

☐	Name
☐	 UK Storage
☐	 local

Step 7: Run the Backup

```
bash RunBackupset.sh mysql-prod-backup
```

```
root@debian:/usr/local/obm/bin# bash RunBackupSet.sh mysql-prod-backup
-
Using APP_HOME      : /usr/local/obm
Using SETTING_HOME  :
Using JAVA_HOME     : /usr/local/obm/jvm
Using JAVA_EXE      : /usr/local/obm/jvm/bin/java
Using JAVA_OPTS     : -Xrs -Xms128m -Xmx2048m -XX:MaxDirectMemorySize=512m -client
-Dsun.nio.PageAlignDirectMemory=true
Using JNI_PATH      : -Djava.library.path=../LinX64
Using CLASSPATH     : ../cb.jar
-
Running Backup Set - 'mysql-prod-backup' ...
```

The backup will start and display logs.

Restore

Step 1: Edit `Restore.sh`

Modify `/usr/local/obm/bin/Restore.sh`:

```
#!/bin/sh

##### Start: User Defined Section #####
###

BACKUP_SET="mysql-prod-backup"      # Backup set name
DESTINATION="local-backup"         # Where backup is stored
RESTORE_TO="/restored_data"        # Target directory (empty = original location)
RESTORE_FROM="MySQL/customer_db.sql" # Database to restore
POINT_IN_TIME="Current"            # "Current" or specific timestamp
RESTORE_PERMISSION="N"             # Restore permissions? (Y/N)
SKIP_INVALID_KEY="N"               # Skip invalid encryption keys? (Y/N)
SYNC_OPTION="N"                    # Sync files? (Y/N)
REPLACE_EXISTING_FILE="--all"      # Replace existing files? (--all/--none)
SETTING_HOME=""                    # Custom settings directory (if needed)
FILTER=""                           # Filter files (optional)
TEMP_DIR="/tmp"                     # Temp directory for restore
```

```
VERIFY_CHKSUM="N"                                # Verify checksums? (Y/N)

##### END: User Defined Section #####
###
```

Step 2: Run the Restore

```
bash Restore.sh
```

Warning: you are using the root account. You may harm your system.

Places

-  Computer
-  root
-  Desktop
-  Trash

Devices

-  File System
-  524 MB Volume
-  cdrom0

