



LAB WEEK 4_2:

Move MySQL Database to another Server

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MỤC TIÊU

1. Dump DB trên VM tuần 2 ra
2. Move file sql đó sang tuần 3
3. Shutdown VM tuần 2 để giải phóng tài nguyên

Phần 1. Sao chép database backup từ VM2 và chuyển sang VM3

- DB cần sao chép qua là site4_db

```
root@ns12-w02-lucnc:~# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 28692
Server version: 10.6.18-MariaDB-0ubuntu0.22.04.1 Ubuntu 22.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| site4_db |
| sys |
+-----+
5 rows in set (0.002 sec)

MariaDB [(none)]> exit;
Bye
```

- Thực hiện sao lưu ra file tên site4_backup_db.sql:

mysqldump -u root -p site4_db > site4_backup_db.sql

```
root@ns12-w02-lucnc:~# mysqldump -u root -p site4_db > site4_backup_db.sql
Enter password:
root@ns12-w02-lucnc:~# ls -lh site4_backup_db.sql
-rw-r--r-- 1 root root 633K Mar 20 07:03 site4_backup_db.sql
```

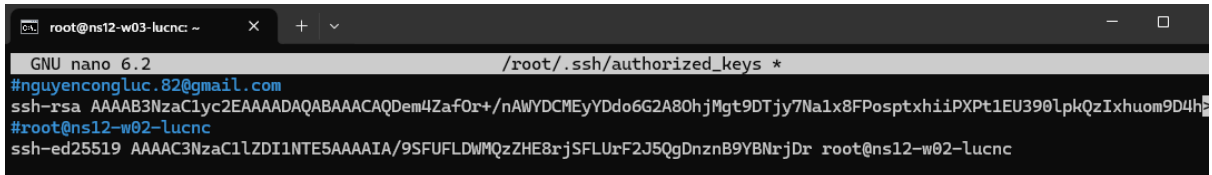
- Tạo key từ VM2 để sao chép tới VM3: ssh-keygen -t ed25519

```
root@ns12-w02-lucnc:~# ssh-keygen -t ed25519
Generating public/private ed25519 key pair.
Enter file in which to save the key (/root/.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_ed25519
Your public key has been saved in /root/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:hU1HnviBCSGpFp1Vtj0At88AKKHfVz0b9jAbS0X2IDU root@ns12-w02-lucnc
The key's randomart image is:
+--[ED25519 256]--+
| .oo.B0BE.o      |
| o+ *..00# .     |
| . = ..&XB       |
| o   oo0.o       |
| .      S =      |
|                 |
|                 |
+----[SHA256]-----+
```

- Tiến hành sao chép key: `cat ~/.ssh/id_ed25519.pub`

```
root@ns12-w02-lucnc:~# cat ~/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIA/9SFUFLDWMQzZHE8rjSFLUrF2J5QgDnznB9YBNrjDr root@ns12-w02-lucnc
```

- Thêm vào file `~/.ssh/authorized_keys` của VM3:



```
root@ns12-w03-lucnc: ~
GNU nano 6.2 /root/.ssh/authorized_keys *
#nguyencongluc.82@gmail.com
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDem4ZafOr+/nAWYDCMEyYDdo6G2A80hjMgt9DTjy7Na1x8FPsptxhiiPXPt1EU390lpkQzIxhuom9D4h2
#root@ns12-w02-lucnc
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIA/9SFUFLDWMQzZHE8rjSFLUrF2J5QgDnznB9YBNrjDr root@ns12-w02-lucnc
```

- Tiến hành sao chép DB sang VM3 với scp: `scp site4_backup_db.sql root@10.0.25.1:/tmp/`

```
root@ns12-w02-lucnc:~# scp site4_backup_db.sql root@10.0.25.1:/tmp/
site4_backup_db.sql 100% 632KB 34.7MB/s 00:00
```

Phần 2. Tạo database rỗng trong VM3 và import dữ liệu từ file backup

- Đăng nhập vào MariaDB:

mysql -u root -p

```
root@ns12-w03-lucnc:~# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 5845
Server version: 8.0.41-0ubuntu0.22.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> CREATE DATABASE site4_db;
Query OK, 1 row affected (0.01 sec)
```

- Tạo database và user:

mysql> create database site4_db;

mysql> create user 'site4_user'@'localhost' identified by 'password4';

mysql> grant all privileges on site4_db.* to 'site4_user'@'localhost';

mysql> flush privileges;

mysql> exit;

```
mysql> create database site4_db;
Query OK, 1 row affected (0.02 sec)

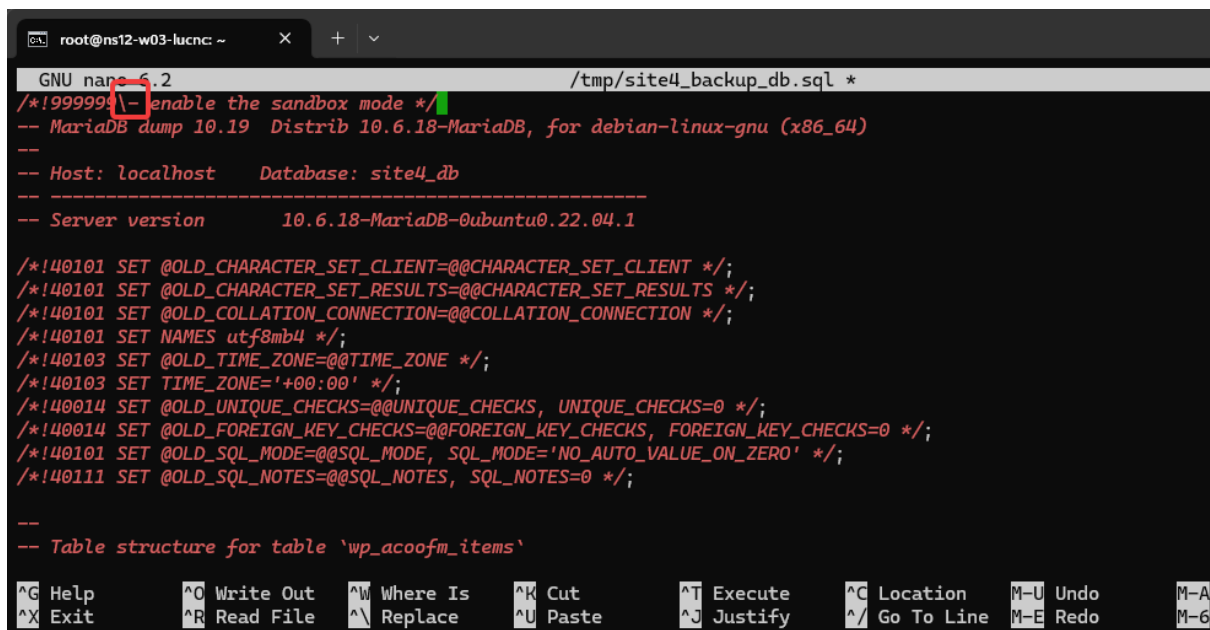
mysql> create user 'site4_user'@'localhost' identified by 'password4';
Query OK, 0 rows affected (0.05 sec)

mysql> grant all privileges on site4_db.* to 'site4_user'@'localhost';
Query OK, 0 rows affected (0.01 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0.01 sec)

mysql> exit;
Bye
```

- Xóa ký tự \- để định dạng lại file backup_db



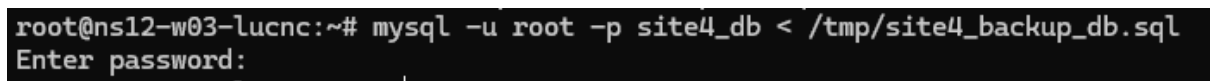
```
GNU nano 6.2 /tmp/site4_backup_db.sql *
/*!999999 \- enable the sandbox mode */
-- MariaDB dump 10.19 Distrib 10.6.18-MariaDB, for debian-linux-gnu (x86_64)
--
-- Host: localhost    Database: site4_db
--
-- Server version      10.6.18-MariaDB-0ubuntu0.22.04.1

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8mb4 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
-- Table structure for table `wp_acoofm_items`
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location   M-U Undo     M-A
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^_ Go To Line  M-E Redo     M-6
```

- Import data vào file site4_db.sql:

mysql -u root -p site4_db < /tmp/site4_backup_db.sql



```
root@ns12-w03-lucnc:~# mysql -u root -p site4_db < /tmp/site4_backup_db.sql
Enter password:
```

Phần 3. Cấu hình WordPress trên VM3 của user để website connect với database

- Cập nhật file cấu hình WordPress của user (site4 trong lab) các thông tin như ảnh với lệnh sau:

nano /home/site4/public_html/wp-config.php

- Cập nhật thông tin database:

```
define( 'DB_NAME', 'site4_db' );
```

```
define( 'DB_USER', 'site4_user' );
```

```
define( 'DB_PASSWORD', 'password4' );
```

```
define( 'DB_HOST', 'localhost' );
```

```
define( 'DB_CHARSET', 'utf8mb4' );
```

```
define( 'DB_COLLATE', '' );
```

```
GNU nano 6.2 /home/site4/public_html/wp-config.php *
// ** Database settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'site4_db' );

/** Database username */
define( 'DB_USER', 'site4_user' );

/** Database password */
define( 'DB_PASSWORD', 'password4' );

/** Database hostname */
define( 'DB_HOST', 'localhost' );

/** Database charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8mb4' );

/** The database collate type. Don't change this if in doubt. */
define( 'DB_COLLATE', '' );
```

- Database website đã chạy tốt khi chuyển qua server mới:

