

MariaDB Common Queries

Query Databases

```
MariaDB [(none)]> show databases;
+-----+
| Database          |
+-----+
| information_schema |
| mysql             |
| nextcloud         |
| performance_schema |
| sitedatabase      |
+-----+
```

Select a database

```
MariaDB [(none)]> use sitedatabase;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [sitedatabase]>
```

Query Users

```
MariaDB [(none)]> select host, user, password from mysql.user;
+-----+-----+-----+
| host      | user      | password                                     |
+-----+-----+-----+
| localhost | root      | *AF926838A9A0501BA7017D135C123C007497F85B |
| localhost | www-data  | *AF926838A9A0501BA7017D135C123C007497F85B |
| localhost | nc-user   | *AF926838A9A0501BA7017D135C123C007497F85B |
+-----+-----+-----+

MariaDB [(none)]> SELECT User, Db, Host from mysql.db;
+-----+-----+-----+
| User      | Db          | Host      |
+-----+-----+-----+
| nc-user   | nextcloud   | localhost |
| www-data  | sitedatabase | localhost |
+-----+-----+-----+
```

Create Users

```
CREATE USER 'www-data'@'localhost' IDENTIFIED BY 'your_password';  
CREATE USER 'nc-user'@'localhost' IDENTIFIED BY 'your_password';
```

Query Users Rights

```
MariaDB [(none)]> show grants for 'root'@'localhost';
```

```
+-----+  
-----+  
| Grants for root@localhost  
|  
+-----+  
-----+  
| GRANT ALL PRIVILEGES ON *.* TO 'root'@'localhost' IDENTIFIED VIA  
unix_socket WITH GRANT OPTION |  
| GRANT PROXY ON ''@%' TO 'root'@'localhost' WITH GRANT OPTION  
|  
+-----+  
-----+
```

```
MariaDB [(none)]> show grants for 'www-data'@'localhost';
```

```
+-----+  
-----+  
| Grants for www-data@localhost  
|  
+-----+  
-----+  
| GRANT USAGE ON *.* TO 'www-data'@'localhost' IDENTIFIED BY PASSWORD  
'*AF926838A9A0501BA7017D135C123C007497F85B' |  
| GRANT ALL PRIVILEGES ON `sitedatabase`.* TO 'www-data'@'localhost'  
|  
+-----+  
-----+
```

```
MariaDB [(none)]> show grants for 'nc-user'@'localhost';
```

```
+-----+  
-----+  
| Grants for nc-user@localhost  
|  
+-----+  
-----+  
| GRANT USAGE ON *.* TO 'nc-user'@'localhost' IDENTIFIED BY PASSWORD  
'*AF926838A9A0501BA7017D135C123C007497F85B' |  
| GRANT ALL PRIVILEGES ON `nextcloud`.* TO 'nc-user'@'localhost'  
|  
+-----+  
-----+
```



Grand Users Rights

```
GRANT ALL PRIVILEGES ON `sitedatabase`.* TO 'www-data'@'localhost'
GRANT ALL PRIVILEGES ON `nextcloud`.* TO 'nc-user'@'localhost'
```

Migrate Databases

Dump the databases on the original server. Better extract them one-by-one so we don't migrate anything unnecessary. To dump as single databases, use the following commands:

```
# mysqldump -u root -p --all-databases > all_databases.sql <---
[All Databases]
# mysqldump -u [user] -p --opt [database name] > database_name.sql <---
[Single Database]
# mysqldump -u root -p --opt sitedatabase > sitedatabase_dump.sql
# mysqldump -u root -p --opt nextcloud > nextcloud_dump.sql
```

Once the dump is completed, you are ready to transfer the databases. But databases need to be created first on target server.

```
# mysql -u root -p
CREATE DATABASE sitedatabase;
CREATE DATABASE nextcloud;
quit;
```

Restore the data to the newly created databases:

```
# mysql -u [user] -p --all-databases < all_databases.sql <---
[All Databases]
# mysql -u [user] -p newdatabase < DUMP-SITE-DATABASE.sql <---
[Single Database]
# mysql -u root -p sitedatabase < sitedatabase_dump.sql
# mysql -u root -p nextcloud < nextcloud_dump.sql
```

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