

# SQL

## After install

ensure secure access `sudo mysql_secure_installation`

## Logging in

```
mysql -u USERNAME -p
```

add `-h HOSTNAME IP` when logging in remotely

## Creating a user

```
CREATE USER 'NEW_USERNAME'@'localhost' IDENTIFIED BY 'NEW_PASSWORD';
```

## Creating a database

```
CREATE DATABASE DATABASE_NAME
```

## Allow user to modify Database

```
GRANT ALL PRIVILEGES ON DATABASE_NAME.* TO 'USERNAME'@'localhost';
```

# Update permissions

FLUSH PRIVILEGES;

## Open Database to the world

1. Open file at `/etc/mysql/mariadb.conf.d/50-server.cnf`
2. Edit line `bind-address = 127.0.0.1` to -> `bind-address = 0.0.0.0`
3. Restart db service `systemctl restart mariadb`
4. Allow port through firewall with `ufw allow 3306`

### Automated backup script

```
#!/bin/bash

# === Config ===
BACKUP_DIR="/var/backups/mysql"
DATE=$(date +"%Y-%m-%d_%H-%M")
DB_USER="backupuser"
DB_PASS="yourpassword"

# Create backup dir if not exist
mkdir -p "$BACKUP_DIR"

# Dump all databases
mysqldump -u "$DB_USER" -p"$DB_PASS" --all-databases --single-transaction > "$BACKUP_DIR/mariadb-
$DATE.sql"

# Optional: Compress the backup
gzip "$BACKUP_DIR/mariadb-$DATE.sql"

# Delete backups older than 7 days
find "$BACKUP_DIR" -name "*.sql.gz" -type f -mtime +7 -delete
```

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