

# Create Users in MongoDB on Ubuntu 22.04

## Prerequisites

- MongoDB installed on your system
- MongoDB service running
- Access to the MongoDB shell (`mongosh` or `mongo`)

## Step 1: Connect to the MongoDB Shell

First, connect to your MongoDB shell by running:

```
mongosh
```

Or, if using the older shell version:

```
mongo
```

This will open the MongoDB shell where you can run commands.

## Step 2: Switch to the Admin Database

To manage users, you need to switch to the `admin` database:

```
use admin
```

## Step 3: Create a Super (Root) User

To create a user with full administrative privileges (root), use the following command:

```
db.createUser({
  user: "admin_user",
  pwd: "strong_password_here",
  roles: [ { role: "root", db: "admin" } ]
})
```

Replace `admin_user` with the desired username and `strong_password_here` with a strong password. This user will have full control over the entire MongoDB instance.

## Step 4: Create a Normal User

Next, create a normal user with read and write permissions on a specific database. First, switch to the database where this user will operate:

```
use my_database
```

Then, create the user with the following command:

```
db.createUser({
  user: "normal_user",
  pwd: "normal_password_here",
  roles: [ { role: "readWrite", db: "my_database" } ]
})
```

Replace `normal_user` with the desired username, `normal_password_here` with the password, and `my_database` with the name of the database where this user will have access.

## Step 5: Enable Authentication (Optional, but Recommended)

If you want to enforce user authentication, you need to enable it in the MongoDB configuration. To do this:

1. Open the MongoDB configuration file, typically located at `/etc/mongod.conf`:

```
sudo nano /etc/mongod.conf
```

2. Find the following line and ensure `security` is uncommented and `authorization` is set to `enabled`:

```
security:  
  authorization: enabled
```

3. Save the file and restart MongoDB:

```
sudo systemctl restart mongod
```

## Step 6: Log in with the New User

To log in as the newly created users, you can use the following commands:

- For the root user:

```
mongosh -u "admin_user" -p "strong_password_here" --authenticationDatabase "admin"
```

- For the normal user:

```
mongosh -u "normal_user" -p "normal_password_here" --authenticationDatabase "my_database"
```

## Finished

You have now successfully created both a root user and a normal user in MongoDB. The root user has full privileges, while the normal user has restricted access to a specific database.

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