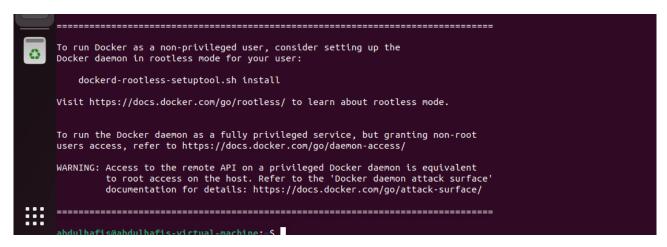
Connecting an External Database (PostgreSQL) to Keycloak

The aim of this exercise is to connect Keycloak to an external database. PostgreSQL was selected as the external database due to its reliability, scalability, and full compatibility with Keycloak's distribution. The setup was deployed using Docker Compose on Ubuntu Linux.

1. Installing Docker



2. Confirming the installation of Docker

```
o documentation for details: https://doc.docker.com/go/artack-surface/

iii abdulhafisabduhhafi-virtual-machine: 5 sudgu sermod -ac docker SUSER
abdulhafisabduhhafi-virtual-machine: 5 merpy docker

but to coker Engine - Community

con version: 28.5.1

cot version: 28.5.1

coversion: 28.5.2

coversion: 28.5.2

coversion: 28.5.2

coversion: 28.5.3

coversion: 28.5

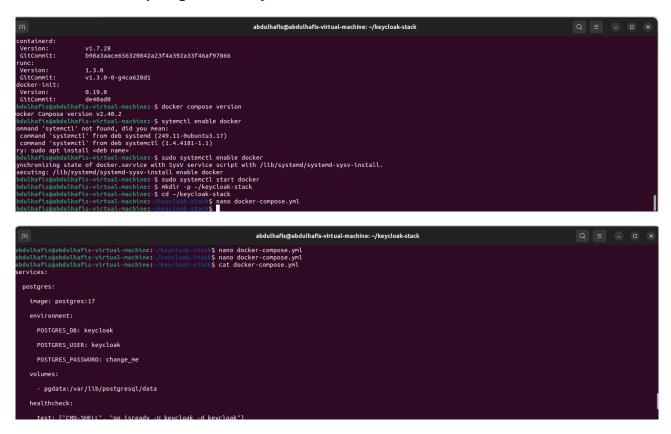
coversion: 28.5

coversion: 28.5

coversion: 28.5

coversion: 28
```

3. Creating project folder and file using a docker-compose.yml file that defined two services — postgres and keycloak



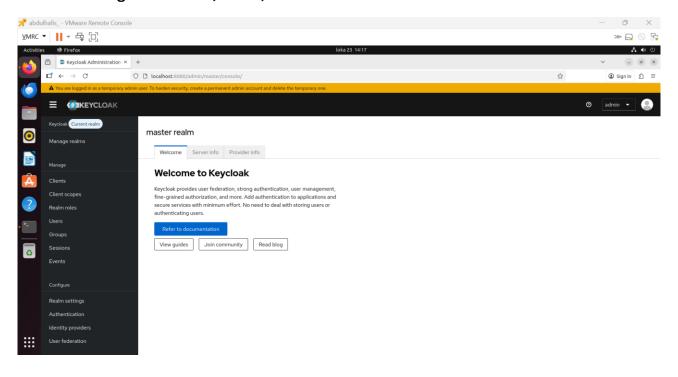
4. Docker downloading and extracting PostgreSQL and keycloak

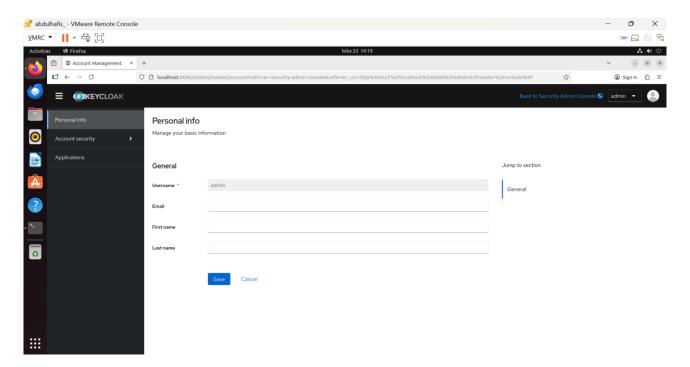
```
## Add Date of State of State
```

5. Keycloak and PostgreSQL up and running

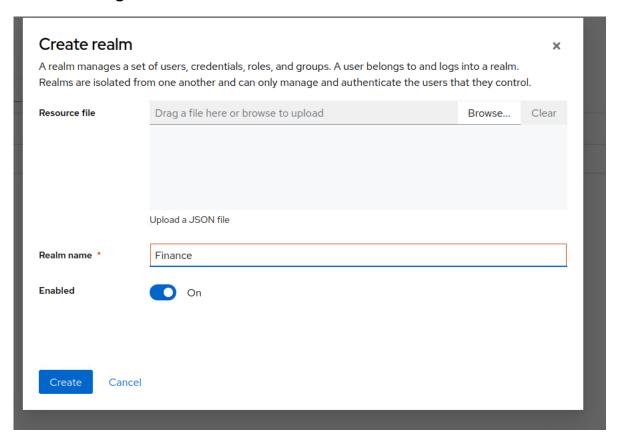
```
| Fig. | Running 2 | Postgres-1 | Healthy | Postgres-1 | P
```

6. Accessed http://localhost:8080, logged in using the bootstrap admin credentials (admin/admin123), and confirmed successful connection to PostgreSQL by creating new realms, users, and clients

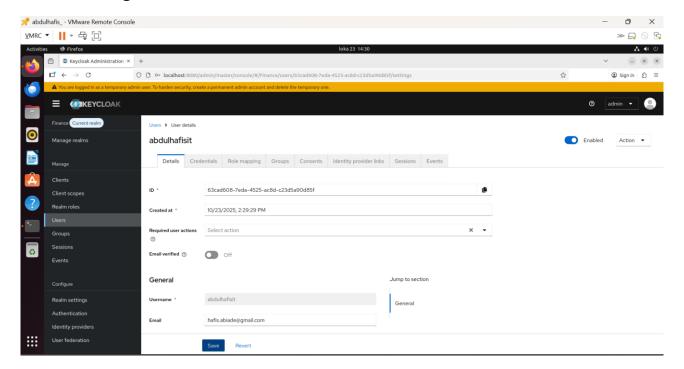




7. Creating a new realm - Finance



8. Creating a user in the Finance Realm



9. After creating realms and users in the Keycloak Admin Console, the PostgreSQL database confirms that all user and realm data are present.

