## PostgreSQL 9.5 in docker

how to setup postgresql 9.5 in docker with user name and password with port to access postgresql with command and example on ubutnu 22.04?

Setting up PostgreSQL 9.5 in Docker on Ubuntu 22.04 involves several steps. Below is a comprehensive guide to get you started, including creating a Docker container with PostgreSQL 9.5, configuring a username and password, and exposing the port to access PostgreSQL.

Step 1: Install Docker

First, ensure that Docker is installed on your Ubuntu 22.04 system.

Update the package list:

sudo apt update

Install Docker:

sudo apt install -y docker.io

Start Docker and enable it to run at startup:

sudo systemctl start docker

sudo systemctl enable docker

Verify Docker installation:

docker --version

Step 2: Pull the PostgreSQL 9.5 Docker Image

Download the PostgreSQL 9.5 Docker image from Docker Hub.

docker pull postgres:9.5

Step 3: Run the PostgreSQL Container

Run the PostgreSQL container with a specified username, password, and port.

docker run --name my\_postgres \

- -e POSTGRES\_USER=myuser \
- -e POSTGRES PASSWORD=mypassword \
- -p 5432:5432 \
- -d postgres:9.5

Here's a breakdown of the command:

- --name my\_postgres: Names the container my\_postgres.
- -e POSTGRES\_USER=myuser: Sets the PostgreSQL username to myuser.

-e POSTGRES\_PASSWORD=mypassword: Sets the PostgreSQL

password to mypassword.

-p 5432:5432: Maps the container's port 5432 to the host's

port 5432.

-d: Runs the container in detached mode.

postgres:9.5: Specifies the PostgreSQL 9.5 image.

Step 4: Verify the Container is Running

Ensure the PostgreSQL container is running.

docker ps

You should see my\_postgres listed in the running containers.

Step 5: Access PostgreSQL

You can now access PostgreSQL using the psql command-line tool or any PostgreSQL client with the following details:

Host: localhost

Port: 5432

Username: myuser

Password: mypassword

For example, using the psql command-line tool:

Install PostgreSQL client tools (if not already installed):

sudo apt install -y postgresql-client Connect to PostgreSQL:

psql -h localhost -U myuser -d postgres

You will be prompted to enter the password (mypassword).

Full Example Script

Here's a script that combines all the steps above:

#!/bin/bash

# Update package list and install Docker sudo apt update sudo apt install -y docker.io

# Start Docker and enable it to run at startup sudo systemctl start docker sudo systemctl enable docker

# Pull PostgreSQL 9.5 image docker pull postgres:9.5

# Run PostgreSQL container with specified user, password, and port
docker run --name my\_postgres \
-e POSTGRES\_USER=myuser \
-e POSTGRES\_PASSWORD=mypassword \
-p 5432:5432 \
-d postgres:9.5

# Install PostgreSQL client tools sudo apt install -y postgresql-client

# Output message indicating setup completion echo "PostgreSQL 9.5 is running and accessible on localhost:5432 with username 'myuser' and specified password."

Run this script on your Ubuntu 22.04 machine, and you will have PostgreSQL 9.5 set up in a Docker container, ready for use.

## Example:

- 112 sudo adduser hpcsa007
- 113 sudo usermod -aG sudo hpcsa007
- 114 su hpcsa007
- 115 sudo service docker stop
- 116 sudo apt-get purge -y docker-ce docker-ce-cli containerd.io
- 117 sudo apt-get autoremove -y --purge docker-ce docker-ce-cli containerd.io
  - 118 sudo rm -rf /var/lib/docker
  - 119 sudo rm -rf /etc/docker
  - 120 sudo rm /etc/apparmor.d/docker
  - 121 sudo groupdel docker
  - 122 sudo rm -rf /var/run/docker.sock
  - 123 docker --version
  - 124 username -r
  - 125 uname -r
  - 126 su -
  - 127 su hpcsa007
  - 128 docker pull postgres
  - 129 docker pull dpage/pgadmin4
  - 130 docker pull postgres:9.5

131 docker run --name my\_postgres -e
POSTGRES\_USER=kali016 -e
POSTGRES\_PASSWORD=Hellomykali -p 5432:5432 -d
postgres:9.5

132 sudo apt install -y postgresql-client

133 echo "PostgreSQL 9.5 is running and accessible on localhost:5432 with username 'myuser' and specified password."

134 docker ps

135 sudo apt install -y postgresql-client

136 psql -h localhost -U kali016 -d postgres

137 history

root@kali:/home/hpcsa007#