***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#

docker run -d \

--name keshri11\_16\

-e PGADMIN\_DEFAULT\_EMAIL=admin@example.com \

-e PGADMIN\_DEFAULT\_PASSWORD=admin \

-p 40:40 \

dpage/pgadmin4

root@kali:/home/hpcsa007# docker run -d --name keshri\_Nov\_007 -e PGADMIN\_DEFAULT\_EMAIL=admin@example.com -e PGADMIN\_DEFAULT\_PASSWORD=golu -p 4040:4040 dpage/pgadmin4

docker run -d --name kali200016-e [PGADMIN\_DEFAULT\_EMAIL=suryavanshigk88@gmail.com](mailto:PGADMIN_DEFAULT_EMAIL=suryavanshigk88@gmail.com) -e PGADMIN\_DEFAULT\_PASSWORD=admin -p 5050:5050 dpage/pgadmin4