

## Verify Installation:

```
PS C:\Users\Medha K> docker -v
Docker version 29.2.0, build 0b9d198
PS C:\Users\Medha K>
```

Steps:

1. PostgreSQL Setup with Docker
  - a. Pull the PostgreSQL image:

```
PS C:\Users\Medha K> docker pull postgres
Using default tag: latest
latest: Pulling from library/postgres
9b8484f1a1e6: Pull complete
0c8d55a45c0d: Pull complete
d7071d8cd1af: Pull complete
6bc137f970e3: Pull complete
e3d994429678: Pull complete
67efc7fd0cb7: Pull complete
b61b9ed964eb: Pull complete
46dc4e6582cd: Pull complete
512b7ea3ac5d: Pull complete
b04fada31d68: Pull complete
f7652ec73b05: Pull complete
c4fa1de5526b: Pull complete
0b231e82c9b6: Pull complete
792e22228ecc: Download complete
63ef23ac419e: Download complete
Digest: sha256:3bb77a07b9ce8b8de0fe6d9b063adf20b9cca1068a1bcd054cac71a69ce0c
a6
Status: Downloaded newer image for postgres:latest
docker.io/library/postgres:latest
PS C:\Users\Medha K>
```

- b. Create and start a PostgreSQL instance:

```
PS C:\Users\Medha K> docker run -d -p 5432:5432 --name postgres1 -e POSTGRES_
PASSWORD=pass12345 postgres
d04e43b35b99809d36875eb5438d1f16903df21833c9c0de0788b0fb5f209a92
PS C:\Users\Medha K>
```




- c. Open a terminal to the container:

```
PS C:\Users\Medha K> docker exec -it postgres1 bash
root@d04e43b35b99:/#
```

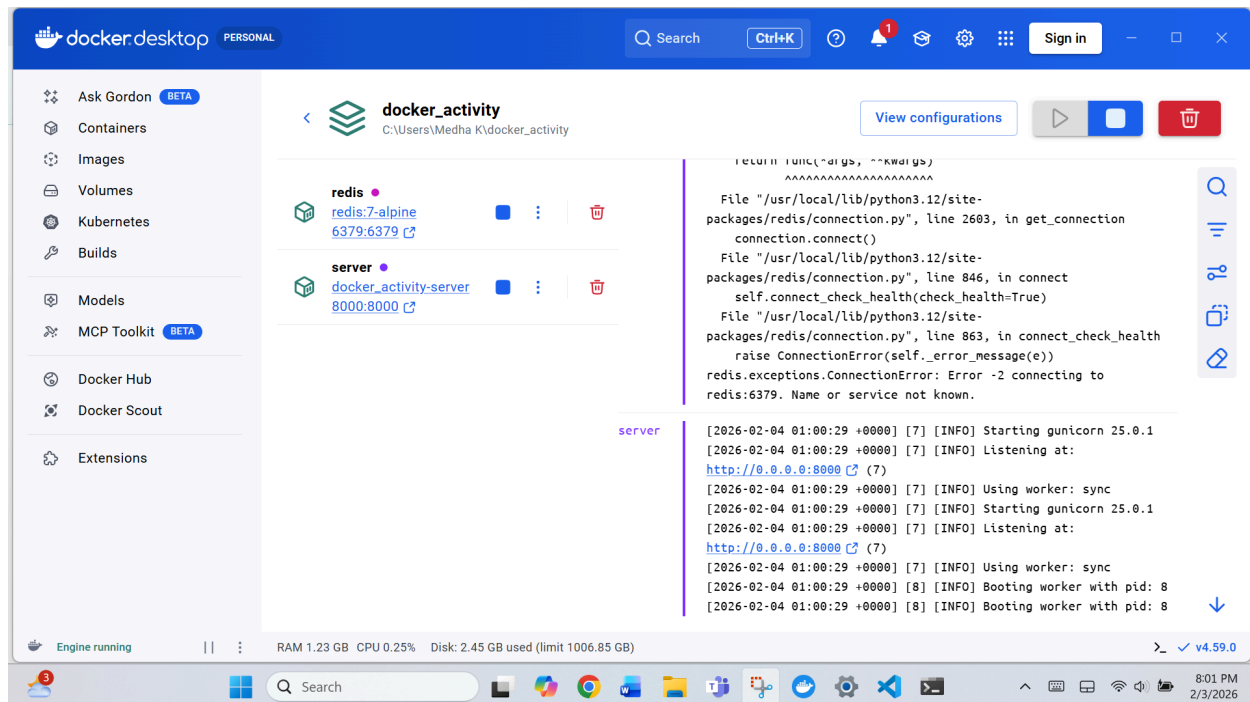
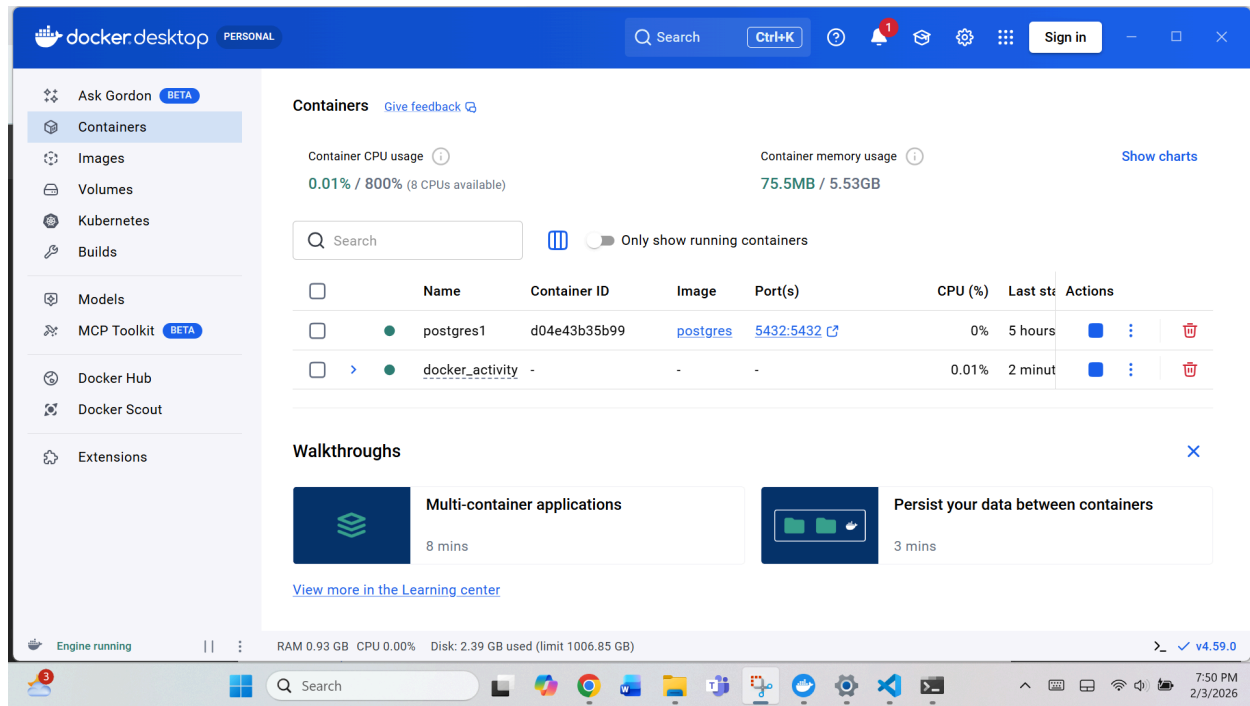
- d. Interact with PostgreSQL with psql:

```
PS C:\Users\Medha K> docker exec -it postgres1 bash
root@d04e43b35b99:/# psql -d postgres -U postgres
psql (18.1 (Debian 18.1-1.pgdg13+2))
Type "help" for help.

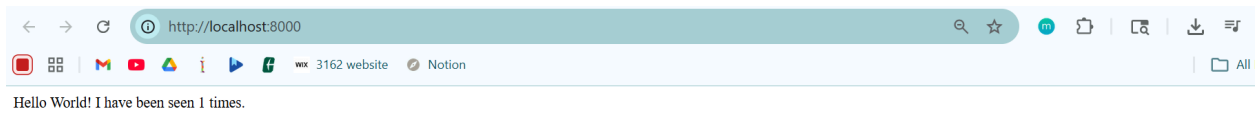
postgres=#
```

<input type="checkbox"/>	Name	Container ID	Image	Port(s)	CPU (%)	Last st	Actions
<input type="checkbox"/>	postgres1	d04e43b35b99	<a href="#">postgres</a>	<a href="#">5432:5432</a>	0%	12 min	  

Docker desktop app showing the containers:



Output obtained after the handson:



2nd time running:

