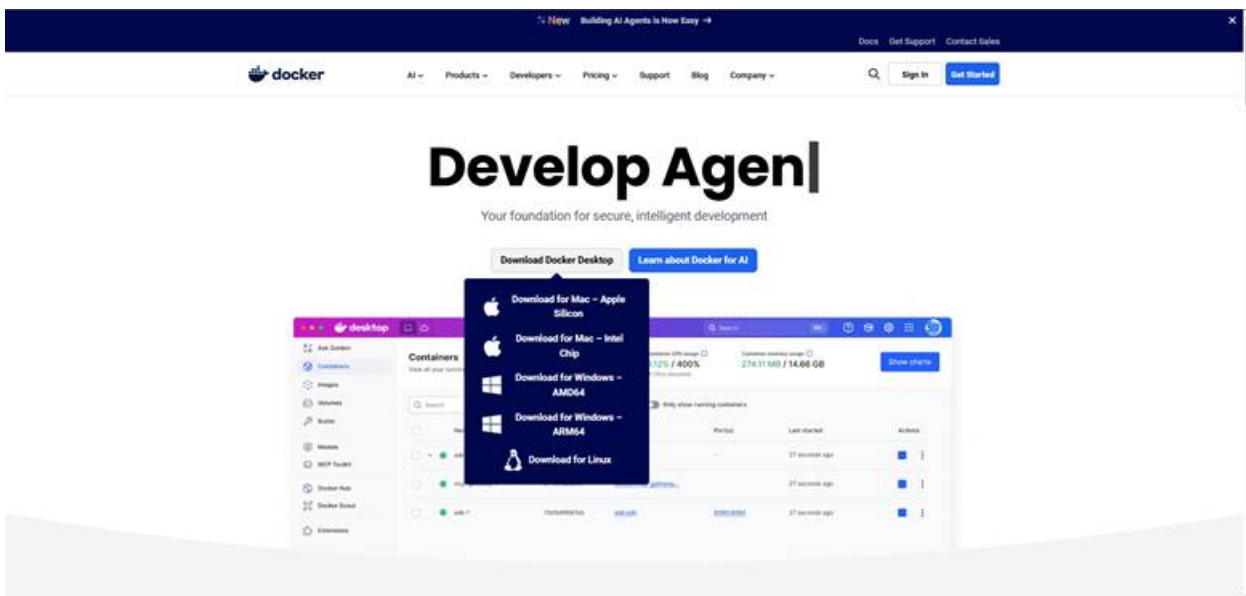


# Setting Up Supabase Using Docker Desktop

If you're new to self-hosting or want a simple, visual setup, Docker Desktop offers the easiest way to run Supabase locally. It provides a graphical interface for managing containers, configuring ports, and ensuring your data persists across restarts—no command-line work required.

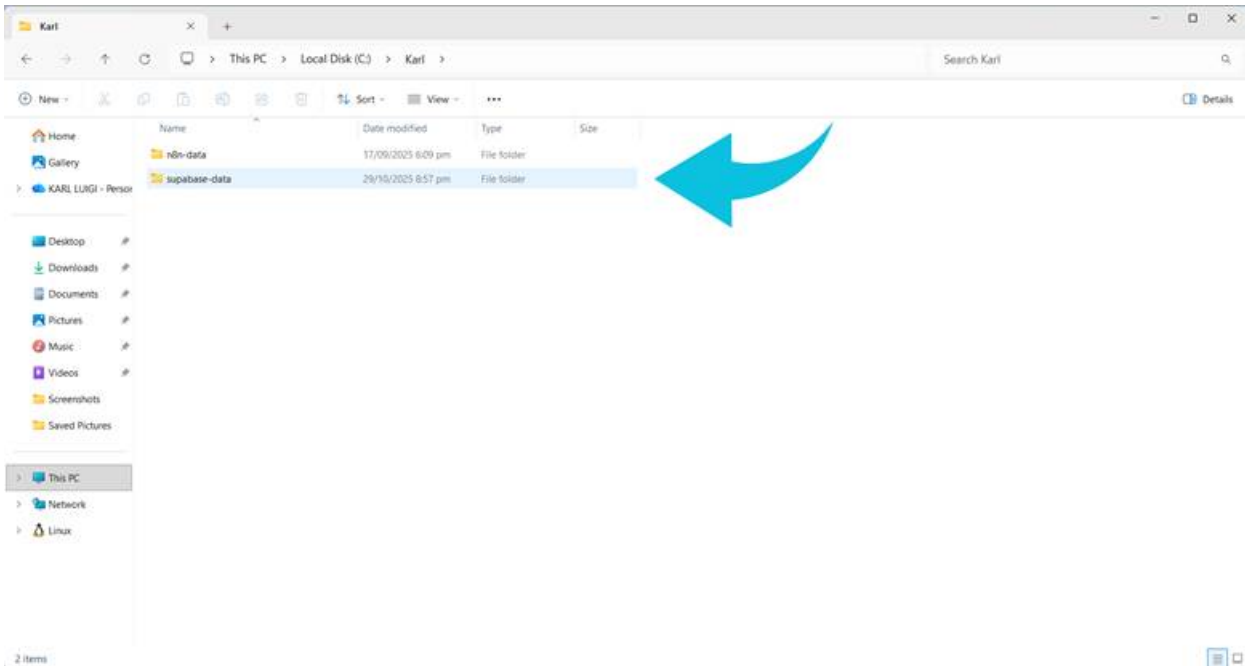
## Step 1. Install Docker Desktop

- [Download Docker Desktop](#) for your operating system.
- Install it following the installer instructions.  
**Windows users:** Enable **WSL2** during installation and restart if prompted.
- Open Docker Desktop and make sure it's running. You should see the Docker whale icon in your system tray or menu bar.



## Step 2. Prepare a Folder for Data

- Supabase stores data (PostgreSQL database, file uploads) in volumes. To make your data persistent:
  - **macOS / Linux:** `~/supabase-data`
  - **Windows:** `C:\supabase-data`



This folder ensures your data is safe even if you remove or update containers.

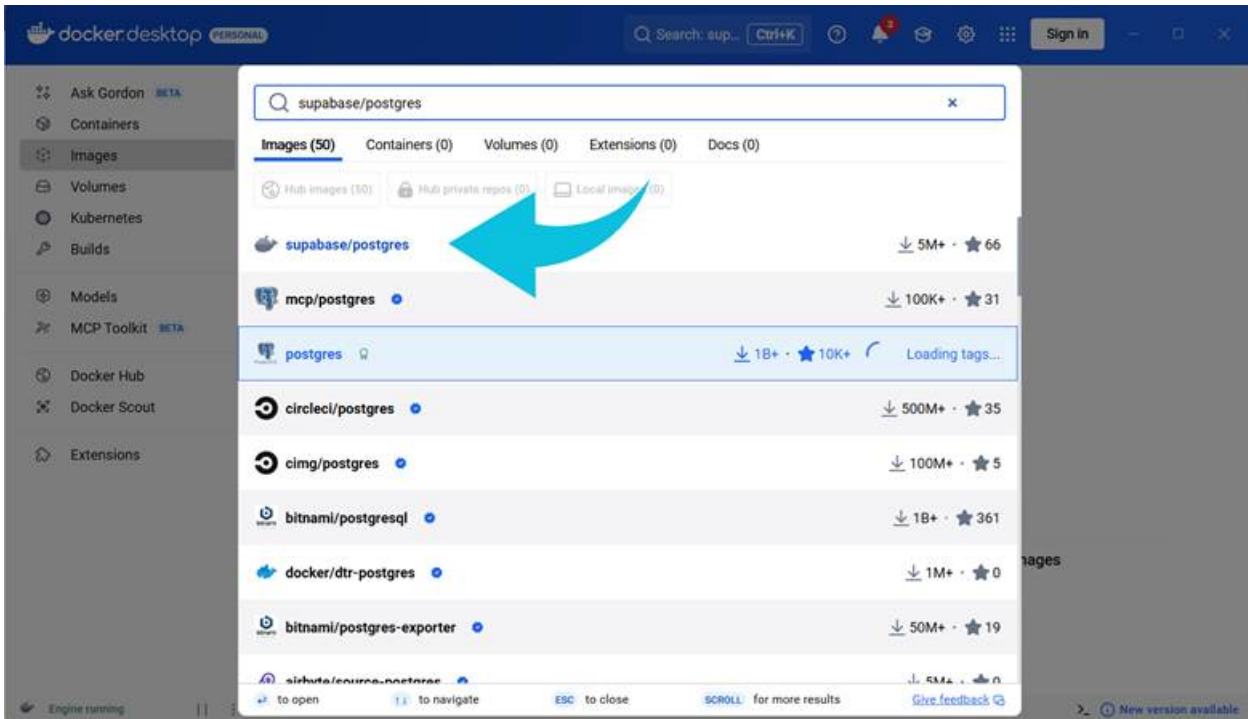
## Step 3. Pull the Official Supabase Images

Supabase uses multiple Docker images for its services: PostgreSQL, Auth, Realtime, Storage, API, and Studio. You can pull them directly in Docker Desktop:

1. Open Docker Desktop and go to the **Images** tab.
2. In the search bar, enter the official image names:

- `supabase/postgres`
- `supabase/gotrue`
- `supabase/realtime`
- `supabase/storage-api`
- `supabase/postgrest`
- `supabase/studio`

3. Click **Pull** for each image to download it to your machine. Repeat for all images.



## Step 4. Create Containers for Each Service

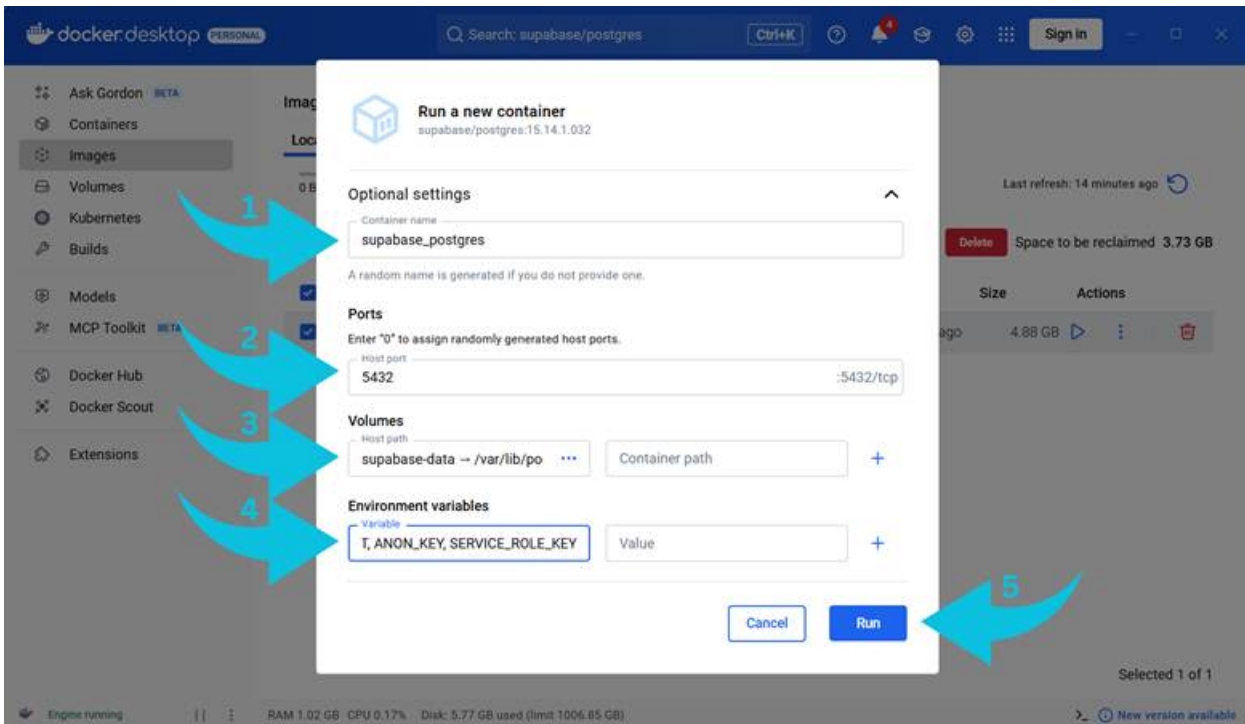
Once the images are downloaded, you need to create a container for each service:

1. Go to the **Containers/Apps** tab in Docker Desktop and click **+ Add Container**.
2. Select the image you just pulled.
3. Configure settings for each container:
  - **Name:** Give it a meaningful name (e.g., `supabase_postgres`, `supabase_auth`).
  - **Ports:** Map the container ports to host ports:
    - PostgreSQL: `5432`
    - Supabase Studio: `3000`
    - Others use default ports (check each service documentation).
  - **Volumes:** Bind your host folder to the container for persistence:
    - Example: `~/supabase-data` → `/var/lib/postgresql/data` for PostgreSQL
  - **Environment Variables:** Set essential keys:

- `POSTGRES_PASSWORD`, `JWT_SECRET`, `ANON_KEY`, `SERVICE_ROLE_KEY`

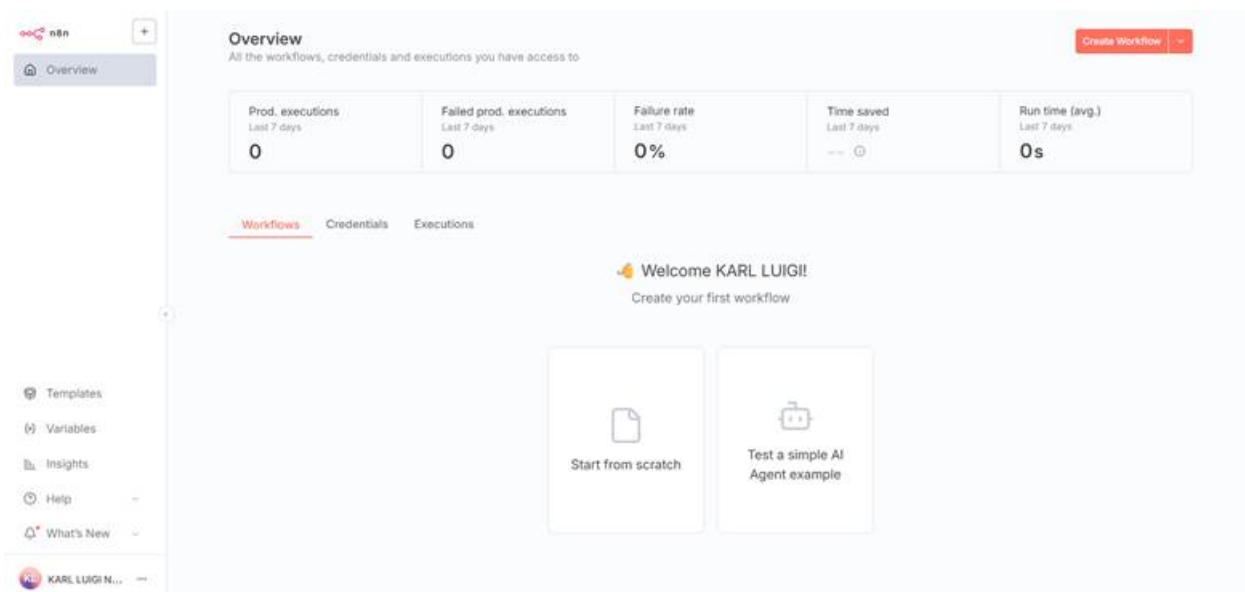
- **Restart Policy:** `Always` or `Unless Stopped`

4. Click **Run** to launch the container. Repeat for all Supabase services.



## Step 5. Access Supabase Studio

- Once all containers are running, open your browser and go to: <http://localhost:3000>
- You now have full access to Supabase Studio and can manage your database, authentication, and storage visually.



# Step 6. Updating Supabase

When new Supabase releases are available:

1. Stop and remove the containers using Docker Desktop.
2. Pull the updated images (Images tab → Pull).
3. Recreate containers using the same settings and volume mappings.

Because your data is stored in persistent volumes, it **remains safe** during updates.

# Step 7. Maintenance and Monitoring

- Docker Desktop lets you monitor resource usage, logs, and container health.
- Regularly check logs for errors and ensure your data folder has sufficient disk space.
- For production or long-term local usage, consider automating container updates using **Watchtower**.

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