This documentation provides step-by-step instructions for starting the OpenSearch-Metadata-Hub project using Docker. Follow the guidelines below to get started:

Prerequisites

Before starting the OpenSearch-Metadata-Hub, ensure that you have Docker installed on your machine. If Docker is not installed, please refer to the Docker documentation for instructions specific to your operating system: link to docker

Important Linux Settings

For production workloads on Linux, it is important to configure the virtual memory settings correctly. Follow these steps:

1. Check the current value of `vm.max_map_count` by running the following command:

   ```
   cat /proc/sys/vm/max_map_count
   ```

   Ensure that the value is set to at least 262144. If the value is lower, continue with the following steps to increase it.

2. Open the `/etc/sysctl.conf` file using a text editor:

   ```
   sudo <text-editor-of-choice> /etc/sysctl.conf
   ```

3. Add the following line to the end of the file:

   ```
   vm.max_map_count=262144
   ```

4. Save the file and exit the text editor.

5. Run the following command to reload the sysctl settings:

   ```
   sudo sysctl -p
   ```

   This will apply the changes made in the `/etc/sysctl.conf` file.

Getting Started

1. Start "Docker Desktop" on your machine.

2. Navigate to our repository and download the latest release of the OpenSearch-Metadata-Hub project: link to the release

3. **Create a `.env` file in the `src/` folder** of the project directory. This file should contain key-value pairs for `URL_CORE_1` and `PW_USER_CORE_1`, where you can store your credentials. Here is an example of how the contents should look:

   ```
   URL_CORE_1=https://metadahub.de/example
   PW_USER_CORE_1=testpw
   ```

4. Navigate to the `src/` folder in the project directory.

5. Execute the following command to start the services using Docker Compose:

   ```
   docker-compose up
   ```

   Alternatively, if you want to run the services in detached mode, use the following command:

   ```
   docker-compose up -d
   ```

6. Once the services are up and running, you can access the OpenSearch-Metadata-Hub website on your local machine at `http://localhost:8000`.

Stopping the Services

To stop all services, follow these steps:

1. Open a terminal or command prompt.

2. Navigate to the `src/` folder in the project directory.

3. Execute the following command to stop the services:

   ```
   docker-compose down
   ```

Clearing Persistent Data

If you need to clear imported data or any persistent data, you can use the `-v` option in the `docker-compose down` command. However, please note that this action cannot be undone. To clear persistent data, follow these steps:

1. Open a terminal or command prompt.

2. Navigate to the `src/` folder in the project directory.

3. Execute the following command to stop the services and clear persistent data:

   ```
   docker-compose down -v
   ```

Please refer to the OpenSearch-Metadata-Hub documentation for additional configuration options and advanced usage.