***Milvus and Chroma DB Setup***

***Milvus:***

Recommended Prerequisites:

* 4+ core CPU
* 16GB RAM
* Docker 19.03 or later
* Docker Compose 1.25.1 or later

To install Milvus Standalone with Docker Compose

1. Download the YAML file: Download milvus-standalone-docker-compose.yml and save it as docker-compose.yml manually, or with the following command.

*wget https://github.com/milvus-io/milvus/releases/download/v2.3.0/milvus-standalone-docker-compose.yml -O docker-compose.yml*

1. Start Milvus: In the same directory as the docker-compose.yml file, start-up Milvus by running:

*sudo docker compose up -d*

1. Now check if the containers are up and running.

*sudo docker compose ps*

After the Milvus standalone starts, there will be three docker containers running, including the Milvus standalone service and its two dependencies.

1. Connect to Milvus: Verify which local port the Milvus server is listening on. Replace the container name with your own.

*docker port milvus-standalone 19530/tcp*

You can connect to Milvus using the local IP address and port number returned by this command.

***Chroma DB:***

Recommended Prerequisites:

* Docker 19.03 or later
* Docker Compose 1.25.1 or later

1. Download the source code from GitHub

*wget* [*https://github.com/chroma-core/chroma/archive/refs/heads/main.zip*](https://github.com/chroma-core/chroma/archive/refs/heads/main.zip)

1. Unzip the downloaded zip file.

*unzip main.zip*

1. Get into the Chroma DB root folder.

*cd cd chroma-main/*

1. Running Chroma in client/server mode: Chroma can be configured to use an on-disk database, useful for larger data which doesn't fit in memory. To run Chroma in client-server mode, run the docker container:

*docker-compose up -d --build*

1. Update your chroma client to point at the docker container. Default: localhost:8000

*import chromadb*

*chroma\_client = chromadb.HttpClient(host='<PublicIP>', port=8000)*