ResCanvas setup procedure

(Reference: https://blog.resilientdb.com/2022/09/28/GettingStartedNexRes.html)

Setup Ubuntu 22.04 with root access
1. Linux: Install Ubuntu 22.04
2. MacOS:
    1. Ensure Docker is installed and open it (open -a Docker)
    2. Download the docker image via Github: https://github.com/apache/incubator-resilientdb/blob/nexres/docker/DockerfileForMac
    3. Install the docker image from the docker file named as nexres:
        1. Find the file you download
        2. Open it and change base image to ubuntu:22.04
        3. docker build . -f DockerfileForMac.txt -t=nexres
    4. Run docker and login to container
        1. docker run -i --name nexres nexres
        2. Exit the docker by typing "exit"
        3. docker ps -a
        4. Copy ID from the last command and start container by running: docker start ID
        5. Login to the container and swith to the ubuntu user:
            1. docker exec -it **ID** /bin/bash
            2. su - ubuntu

ResilientDB Installation
1. Enter the docker container created from previous step
2. Clone and enter the ResilientDB repository in terminal:
    1. git clone https://github.com/resilientdb/resilientdb.git
    2. cd resilientdb/
3. Install the environment
    1. chmod +x INSTALL.sh
    2. ./INSTALL.sh
    3. might have a couple setup questions in the process of installation

GraphQL Installation
1. Enter the same docker container from previous step
2. Clone and enter the GraphQL repository in terminal:
    1. git clone https://github.com/apache/incubator-resilientdb-graphql.git
    2. cd incubator-resilientdb-graphql/
3. Install python3 (version - 3.9+) and ensure pip is installed using the command
    1. sudo apt-get install python3-pip
    2. sudo apt-get install -y python3.10-venv

Start KV Service

(https://github.com/apache/incubator-resilientdb/tree/master?tab=readme-ov-file)
  1. cd ~/resilientdb
  2. ./service/tools/kv/server_tools/start_kv_service.sh
  3. If Step 2 fail, go into .bazelrc and reduce job number
  4. bazel build service/tools/kv/api_tools/kv_service_tools
Start GraphQL
(https://github.com/apache/incubator-resilientdb-graphql)
  1. bazel build service/http_server:crow_service_main
  2. bazel-bin/service/http_server/crow_service_main service/tools/config/
     interface/service.config service/http_server/server_config.config