**eKuiper 5 minutes quick start**

1. Pull an eKuiper Docker image from [https://hub.docker.com/r/lfedge/ekuiper/tags](https://hub.docker.com/r/lfedge/ekuiper/tags). It's recommended to use alpine image in this tutorial (refer to [eKuiper Docker](https://hub.docker.com/r/lfedge/ekuiper/tags) for the difference of eKuiper Docker image variants).

2. Set eKuiper source to an MQTT server. This sample uses server located at [tcp://broker.emqx.io:1883](tcp://broker.emqx.io:1883). broker.emqx.io is a public MQTT test server hosted by [EMQ](https://www.emqx.com).

   ```bash
docker run -p 9081:9081 -d --name ekuiper -e MQTT_SOURCE__DEFAULT__SERVERS="[tcp://broker.emqx.io:1883]" lfedge/ekuiper:$tag
   ``

3. Create a stream - the stream is your stream data schema, similar to table definition in database. Let's say the temperature & humidity data are sent to [broker.emqx.io](https://broker.emqx.io), and those data will be processed in your local eKuiper docker instance. Below steps will create a stream named demo, and data are sent to devices/device_001/messages topic, while device_001 could be other devices, such as device_002, all of those data will be subscribed and handled by demo stream.

   -- In host
   ```bash
   # docker exec -it ekuiper /bin/sh
   ```

   -- In docker instance
   ```bash
   # bin/kuiper create stream demo '(temperature float, humidity bigint) WITH (FORMAT="JSON", DATASOURCE="devices/+/messages")'
   ```

   Connecting to 127.0.0.1:20498...
   Stream demo is created.

   ```bash
   # bin/kuiper query
   Connecting to 127.0.0.1:20498...
   kuiper > select * from demo where temperature > 30;
   Query was submit successfully.
   ```


   ```bash
   # mosquitto_pub -h broker.emqx.io -m '{"temperature": 40, "humidity" : 20} -t devices/device_001/messages
   ```

4. If everything goes well, you can see the message is print on docker bin/kuiper query window. Please try to publish another message with temperature less than 30, and it will be filtered by WHERE condition of the SQL.

   ```bash
   kuiper > select * from demo WHERE temperature > 30;
   ```

   If having any problems, please take a look at log/stream.log.

5. To stop the test, just press `ctrl + c` in bin/kuiper query Command console, or input `exit` and press enter.

You can also refer to [eKuiper dashboard documentation](https://eKuiper.io) for better using experience.

Next for exploring more powerful features of eKuiper? Refer to below for how to apply eKuiper in edge and integrate with AWS / Azure IoT cloud.

- Lightweight edge computing eKuiper and Azure IoT Hub integration solution
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