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FIWARE

AGENDA

- IT-Architecture

- Installation & Configuration

- Logical data flow

- QuantumLeap is a REST service for storing, querying and retrieving NGSI v2 and NGSI-LD (experimental support) spatial-temporal data.

SETUP QUANTUMLEAP ON A SINGLE HOST

- Hosting on a single host for testing

- Via Docker-composed

- Provided .yml for testing

The yml-file can be found in the docs:

https://quantumleap.readthedocs.io/en/latest/admin/installing/#deploy-quantumleap-on-a-single-host-for-local-testing

Containers provided by the testing .yml

	Running (7/7)	0.9%		6 hours ago
redis:6.2.3	Running	0.17%	6379:6379 ☐	6 hours ago
timescale/timescaledb-postgis:2.3.0-pg13	Running	0%	5432:5432 ☐	6 hours ago
mongo:4.4	Running	0.39%	27017:27017 ☐	6 hours ago
crate:4.6.7	Running	0.21%	4200:4200 ☐ 4300:4300 ☐ Show less	6 hours ago
grafana/grafana	Running	0.08%	3000:3000 ☐	6 hours ago
fiware/orion:3.3.1	Running	0%	1026:1026 ☐	6 hours ago
orchestracities/quantumleap:latest	Running	0.05%	8668:8668 ☐	6 hours ago

SIMULATE PARKING SPOTS

1. Create a parking spot with n parking spots

2. While true loop to randomly occupy and free parking spots

3. Create a Dockerfile in the same directory that uses python as parent image

4. Building and running the docker image

GET WEATHER DATA

1. Querry the current weather data from openweather api

2. While true loop to querry the weatherdata every 5 min

3. Create a Dockerfile in the same directory that uses python as parent image

4. Building and running the docker image

LOGICAL DATA FLOW

Data Flow in Smart City Infrastructure