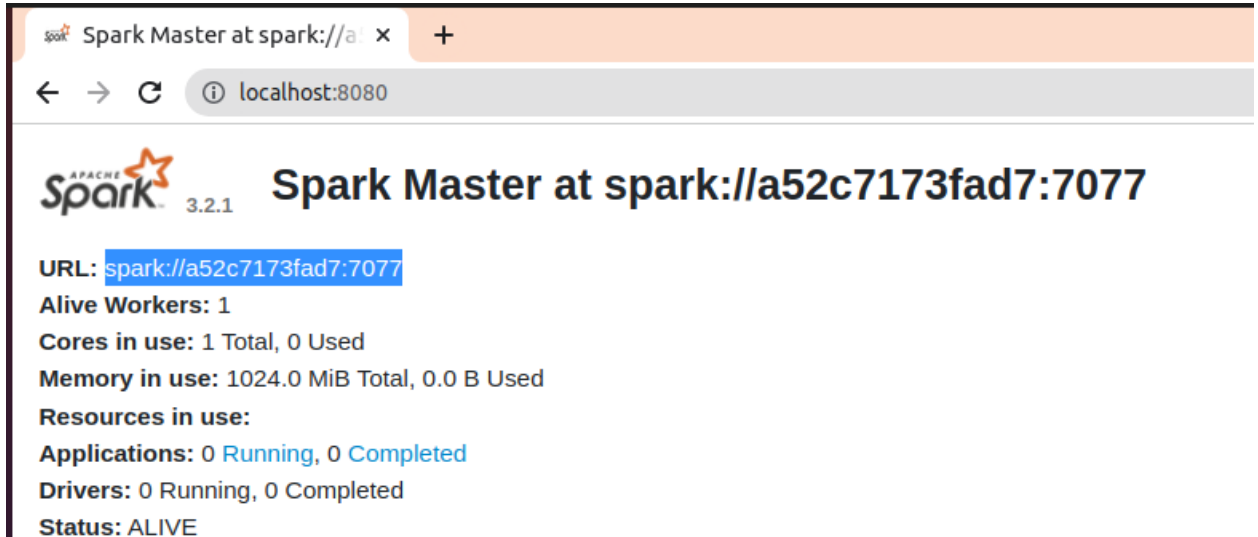


1. Спершу необхідно викликати `docker-compose up -d`
2. Після цього в скрипті `create_container.sh` замінити директорію в `mount volume` на локальну та викликати скрипт
3. В скрипті `submit_master.sh` портівно вставити замість `[local]` локальний url (після запуску воркера його можна знайти за посиланням `localhost:8080`):



4. В контейнері переходимо в директорію `/opt/app` та запускаємо скрипт на виконання:

```
zorya@zorya-virtual-machine: ~/Documents/BigData/HW9
zorya@zorya-virtual-machine:~/Documents/BigData/HW9$ docker-compose up -d
Creating network "spark-network" with the default driver
Creating hw9_spark_1 ... done
Creating hw9_spark-worker_1 ... done
zorya@zorya-virtual-machine:~/Documents/BigData/HW9$ bash create_container.sh
08:36:55.36 Welcome to the Bitnami spark container
08:36:55.36 Subscribe to project updates by watching https://github.com/bitnami/bitnami-docker-spark
08:36:55.36 Submit issues and feature requests at https://github.com/bitnami/bitnami-docker-spark/issues
I have no name!@9d1b7cb02ae:/opt/bitnami/spark$ cd /opt/app
I have no name!@9d1b7cb02ae:/opt/app$ bash submit_master.sh
Using Spark's default log4j profile: org/apache/spark/log4j-defaults.properties
22/06/11 08:37:36 INFO SparkContext: Running Spark version 3.2.1
22/06/11 08:37:36 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
22/06/11 08:37:36 INFO ResourceUtils: No custom resources configured for spark.driver.
22/06/11 08:37:36 INFO ResourceUtils:
22/06/11 08:37:36 INFO SparkContext: Submitted application: SimpleSparkProject
22/06/11 08:37:36 INFO ResourceProfile: Default ResourceProfile created, executor resources: Map(cores -> name: cores, amount: 1, script: , vendor: , memory -> name: memory, amount: 1024, script: , vendor: , offHeap -> name: offHeap, amount: 0, script: , vendor: ), task resources: Map(cpus -> name: cpus, amount: 1.0)
22/06/11 08:37:36 INFO ResourceProfile: Limiting resource is cpu
22/06/11 08:37:36 INFO ResourceProfileManager: Added ResourceProfile id: 0
22/06/11 08:37:36 INFO SecurityManager: Changing view acls to: spark
```

5. Результат запуску коду:

```
22/06/11 08:27:15 INFO StandaloneAppClient$Client
22/06/11 08:27:15 INFO StandaloneSchedulerBackend
22/06/11 08:27:15 INFO SharedState: Setting hive.
22/06/11 08:27:15 INFO SharedState: Warehouse pat
22/06/11 08:27:17 INFO CoarseGrainedSchedulerBack
22/06/11 08:27:17 INFO BlockManagerMasterEndpoint
Number of Rows are: 6362620
22/06/11 08:27:27 INFO SparkContext: Invoking sto
22/06/11 08:27:27 INFO SparkUI: Stopped Spark web
22/06/11 08:27:27 INFO StandaloneSchedulerBackend
22/06/11 08:27:27 INFO CoarseGrainedSchedulerBack
```

Аби зупинити роботу контейнерів виходимо з нього та запускаємо docker -compose down:

```
zorya@zorya-virtual-machine:~/Documents/BigData/HW9$ docker-compose down
Stopping hw9_spark_1          ... done
Stopping hw9_spark-worker_1  ... done
Removing hw9_spark_1         ... done
Removing hw9_spark-worker_1  ... done
Removing network spark-network
zorya@zorya-virtual-machine:~/Documents/BigData/HW9$
```