This is Homework of Module 8 (Kafka Basics) of Data Engineering Program (Self-study).

The basic scripts and screenshots of step-by-step procedure are uploaded on Github:

https://github.com/OlehKor/M08\_KafkaBasics\_JVM\_Local/blob/2046cf48938469a11ce15144aef94c8d7e953c6f/README.md

The work is done based on tutorial on this link: https://docs.confluent.io/platform/current/tutorials/examples/clickstream/docs/index.html?utm\_source=github&utm\_medium=demo&utm\_campaign=ch.examples\_type.community\_content.clickstream

The system setup was: Windows 10 with Oracle VM VirtualBox running Ubuntu 20.04.3 LTS with installed Docker and required Containers, such as:

| Name | Stack | Image | Created | IP Address | Published Ports |
| --- | --- | --- | --- | --- | --- |
| [control-center](http://localhost:9000/" \l "!/2/docker/containers/e2c79dd8d0b602084cd9d420758d4e4099ef14d989c44f4cf5187a2b8417d28d) | m10\_kafkabasics\_sql\_local-master | [confluentinc/cp-enterprise-control-center:6.2.0](http://localhost:9000/" \l "!/2/docker/images/confluentinc~2Fcp-enterprise-control-center%3A6.2.0) | 2021-10-16 22:06:31 | 172.19.0.10 | [9021:9021](http://0.0.0.0:9021/) |
| [ksqldb-cli](http://localhost:9000/" \l "!/2/docker/containers/9c8f34faa89d81998cd35c35620fcd8290eb5ce44b6663ae8b8f64e75e753521) | m10\_kafkabasics\_sql\_local-master | [confluentinc/cp-ksqldb-cli:6.2.0](http://localhost:9000/" \l "!/2/docker/images/confluentinc~2Fcp-ksqldb-cli%3A6.2.0) | 2021-10-16 22:06:31 | 172.19.0.9 | - |
| [ksqldb-server](http://localhost:9000/" \l "!/2/docker/containers/08a11c5b07899d277d8a3132674c4be31bdae07964a6c0ba9e84d81b75c3baf5) | m10\_kafkabasics\_sql\_local-master | [confluentinc/cp-ksqldb-server:6.2.0](http://localhost:9000/" \l "!/2/docker/images/confluentinc~2Fcp-ksqldb-server%3A6.2.0) | 2021-10-16 22:06:29 | 172.19.0.8 | [8083:8083](http://0.0.0.0:8083/) [8088:8088](http://0.0.0.0:8088/) |
| [schema-registry](http://localhost:9000/" \l "!/2/docker/containers/362e20924a34a04e6be8546fa2cdd4e9f7fb181f346a84bc027ccf6c5c8c9f39) | m10\_kafkabasics\_sql\_local-master | [confluentinc/cp-schema-registry:6.2.0](http://localhost:9000/" \l "!/2/docker/images/confluentinc~2Fcp-schema-registry%3A6.2.0) | 2021-10-16 22:06:27 | 172.19.0.7 | - |
| [kafka](http://localhost:9000/" \l "!/2/docker/containers/037ff1799f4c8b7ddf117a23260f230cabe6f27ed5276973aedbad5703bf198b) | m10\_kafkabasics\_sql\_local-master | [confluentinc/cp-server:6.2.0](http://localhost:9000/" \l "!/2/docker/images/confluentinc~2Fcp-server%3A6.2.0) | 2021-10-16 22:06:25 | 172.19.0.6 | - |
| [zookeeper](http://localhost:9000/" \l "!/2/docker/containers/1f77f65f650b11cadc60bc040b77c9b026fea7392ac740da75bdbc06e4e12d2f) | m10\_kafkabasics\_sql\_local-master | [confluentinc/cp-zookeeper:6.2.0](http://localhost:9000/" \l "!/2/docker/images/confluentinc~2Fcp-zookeeper%3A6.2.0) | 2021-10-16 22:06:24 | 172.19.0.4 | - |
| [elasticsearch](http://localhost:9000/" \l "!/2/docker/containers/014c0adab776cbb13de580bb9631ffd0308f16c67a88b674964130d1b38955ca) | m10\_kafkabasics\_sql\_local-master | [docker.elastic.co/elasticsearch/elasticsearch:6.3.0](http://localhost:9000/" \l "!/2/docker/images/docker.elastic.co~2Felasticsearch~2Felasticsearch%3A6.3.0) | 2021-10-16 22:06:24 | 172.19.0.2 | [9200:9200](http://0.0.0.0:9200/) |
| [grafana](http://localhost:9000/" \l "!/2/docker/containers/8363e20a6b000893b6bc539df74c9c0a31d08a9319ecdccd94479b4f941196d5) | m10\_kafkabasics\_sql\_local-master | [grafana/grafana:5.2.4](http://localhost:9000/" \l "!/2/docker/images/grafana~2Fgrafana%3A5.2.4) | 2021-10-16 22:06:24 | 172.19.0.5 | [3000:3000](http://0.0.0.0:3000/) |
| [tools](http://localhost:9000/" \l "!/2/docker/containers/c42ba012079090eec070ba1c3b626f90a104c888c4f4e93ad537976faf8cc3c3) | m10\_kafkabasics\_sql\_local-master | [cnfltraining/training-tools:5.4](http://localhost:9000/" \l "!/2/docker/images/cnfltraining~2Ftraining-tools%3A5.4) | 2021-10-16 22:06:24 | 172.19.0.3 | - |
| [portainer](http://localhost:9000/" \l "!/2/docker/containers/5f64a8f3f41979cffa5e48932fafe0b712ae31a67a2bafd16df1c6ded5600fea) | - | [portainer/portainer-ce](http://localhost:9000/" \l "!/2/docker/images/portainer~2Fportainer-ce) | 2021-10-15 22:22:31 | 172.17.0.2 | [8000:8000](http://0.0.0.0:8000/) [9000:9000](http://0.0.0.0:9000/) |