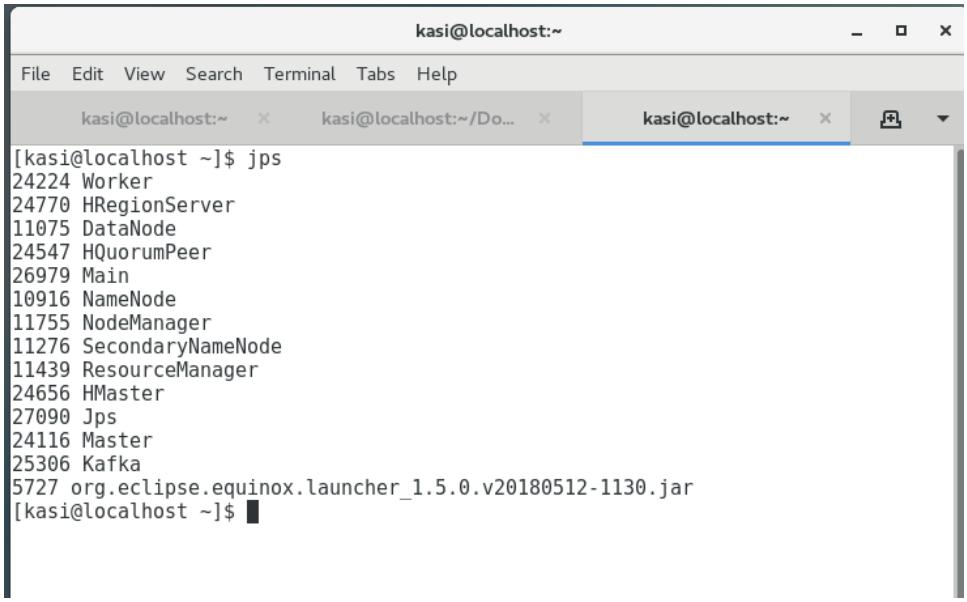
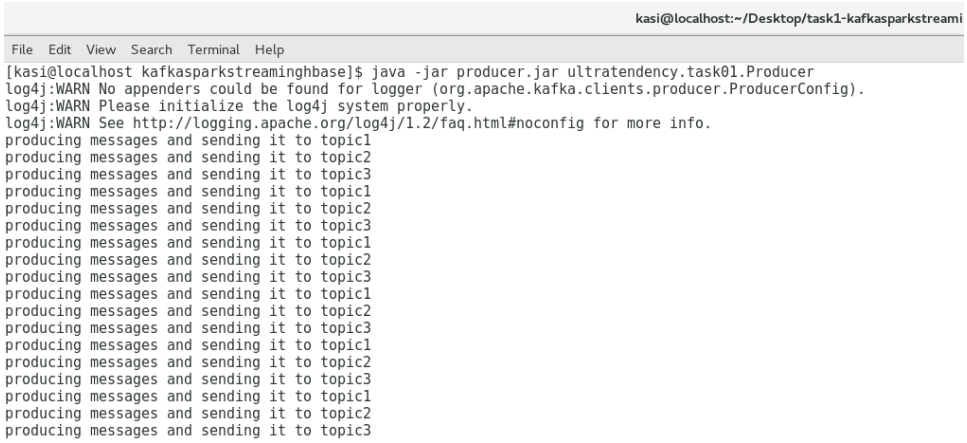
Spark Streaming with Kafka and Hbase

Expected output:

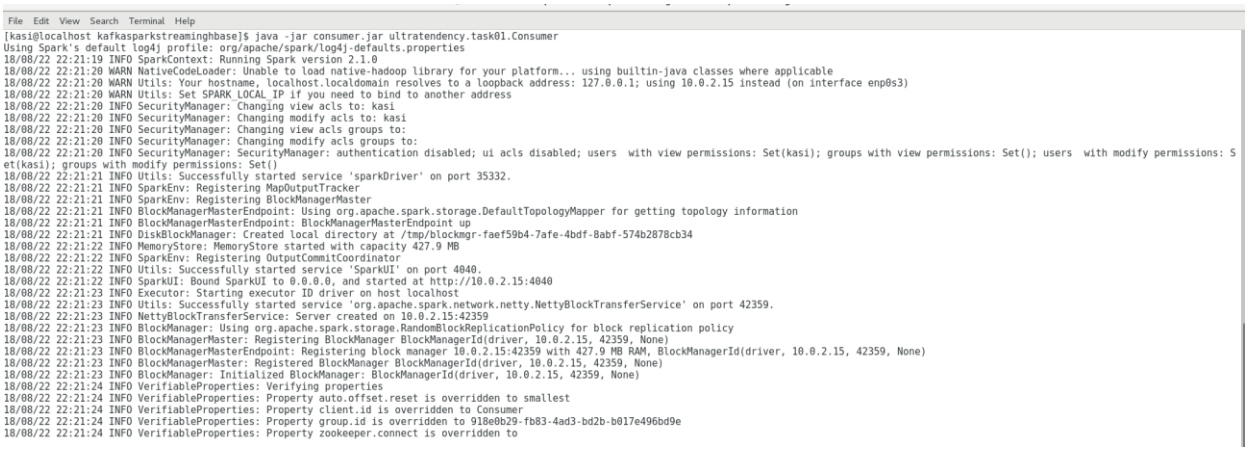
Running the Services:



Running the producer:



Running the Consumer:



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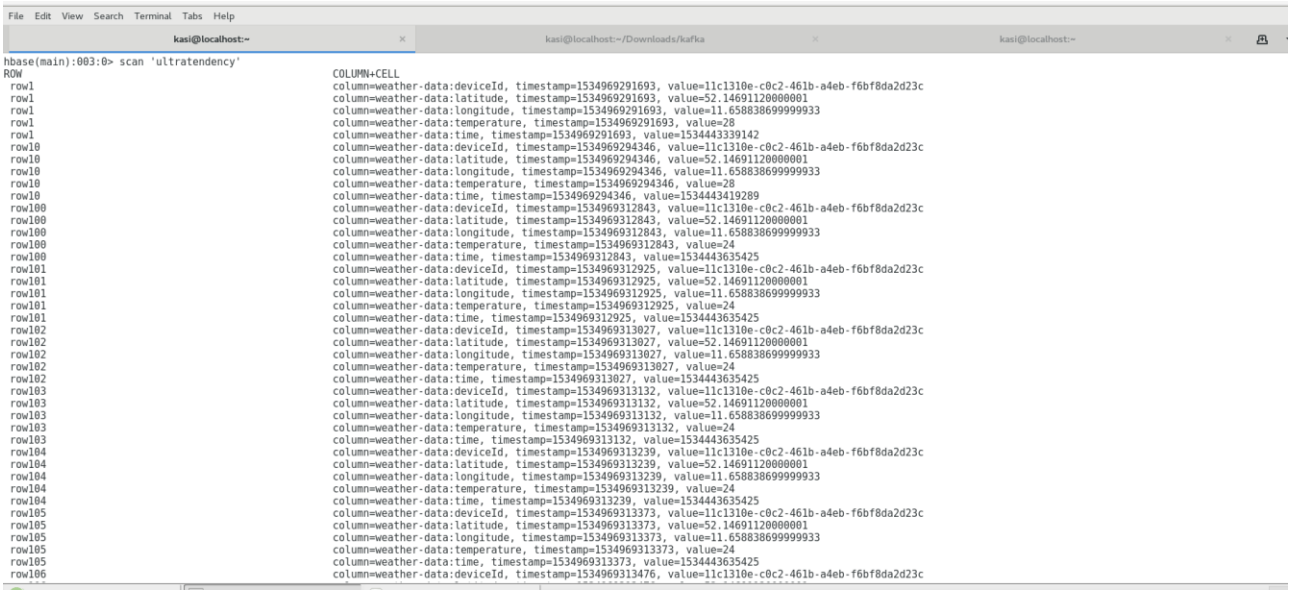
File  Edit  View  Search  Terminal  Help
[kasi@localhost kafkasparkstreaminghbase]$ java -jar consumer.jar ultratendency.task01.Consumer
Using Spark's default log4j profile: org/apache/spark/log4j-defaults.properties
18/08/22 22:21:19 INFO SparkContext: Running Spark version 2.1.0
18/08/22 22:21:20 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/08/22 22:21:20 WARN Utils: Your hostname, localhost.localdomain resolves to a loopback address: 127.0.0.1; using 10.0.2.15 instead (on interface enp0s3)
18/08/22 22:21:20 WARN Utils: Set SPARK_LOCAL_IP if you need to bind to another address
18/08/22 22:21:20 INFO SecurityManager: Changing view acls to: kasi
18/08/22 22:21:20 INFO SecurityManager: Changing modify acls to: kasi
18/08/22 22:21:20 INFO SecurityManager: Changing view acls groups to:
18/08/22 22:21:20 INFO SecurityManager: Changing modify acls groups to:
18/08/22 22:21:20 INFO SecurityManager: SecurityManager: authentication disabled; ui acls disabled; users  with view permissions: Set(kasi); groups with view permissions: Set(); users  with modify permissions: S
et(kasi); groups with modify permissions: Set()
18/08/22 22:21:21 INFO Utils: Successfully started service 'sparkDriver' on port 35332.
18/08/22 22:21:21 INFO SparkEnv: Registering MapOutputTracker
18/08/22 22:21:21 INFO SparkEnv: Registering BlockManagerMaster
18/08/22 22:21:21 INFO BlockManagerMasterEndpoint: Using org.apache.spark.storage.DefaultTopologyMapper for getting topology information
18/08/22 22:21:21 INFO BlockManagerMasterEndpoint: BlockManagerMasterEndpoint up
18/08/22 22:21:21 INFO DiskBlockManager: Created local directory at /tmp/blockmgr-faef59b4-7afe-4bdf-8abf-574b2878cb34
18/08/22 22:21:22 INFO MemoryStore: MemoryStore started with capacity 427.9 MB
18/08/22 22:21:22 INFO SparkEnv: Registering OutputCommitCoordinator
18/08/22 22:21:22 INFO Utils: Successfully started service 'SparkUI' on port 4040.
18/08/22 22:21:22 INFO SparkUI: Bound SparkUI to 0.0.0.0, and started at http://10.0.2.15:4040
18/08/22 22:21:23 INFO Executor: Starting executor ID driver on host localhost
18/08/22 22:21:23 INFO Utils: Successfully started service 'org.apache.spark.network.netty.NettyBlockTransferService' on port 42359.
18/08/22 22:21:23 INFO NettyBlockTransferService: Server created on 10.0.2.15:42359
18/08/22 22:21:23 INFO BlockManager: Using org.apache.spark.storage.RandomBlockReplicationPolicy for block replication policy
18/08/22 22:21:23 INFO BlockManagerMaster: Registering BlockManager BlockManagerId(driver, 10.0.2.15, 42359, None)
18/08/22 22:21:23 INFO BlockManagerMasterEndpoint: Registering block manager 10.0.2.15:42359 with 427.9 MB RAM, BlockManagerId(driver, 10.0.2.15, 42359, None)
18/08/22 22:21:23 INFO BlockManagerMaster: Registered BlockManager BlockManagerId(driver, 10.0.2.15, 42359, None)
18/08/22 22:21:23 INFO BlockManager: Initialized BlockManager: BlockManagerId(driver, 10.0.2.15, 42359, None)
18/08/22 22:21:24 INFO VerifiableProperties: Verifying properties
18/08/22 22:21:24 INFO VerifiableProperties: Property auto.offset.reset is overridden to smallest
18/08/22 22:21:24 INFO VerifiableProperties: Property client.id is overridden to Consumer
18/08/22 22:21:24 INFO VerifiableProperties: Property group.id is overridden to 918e0b29-fb83-4ad3-bd2b-b017e496bd9e
18/08/22 22:21:24 INFO VerifiableProperties: Property zookeeper.connect is overridden to
```

Commit to Hbase:



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File  Edit  View  Search  Terminal  Tabs  Help
kasi@localhost:~   kasi@localhost:~/Downloads/kafka   kasi@localhost:~
hbase(main):003:0> scan 'ultratendency'
ROW                                                   COLUMN+CELL
 row1                                                 column=weather-data:deviceId, timestamp=1534969291693, value=11c1310e-c0c2-461b-a4eb-f6bf8da2d23c
 row1                                                 column=weather-data:latitude, timestamp=1534969291693, value=52.14691120000001
 row1                                                 column=weather-data:longitude, timestamp=1534969291693, value=11.658838699999933
 row1                                                 column=weather-data:temperature, timestamp=1534969291693, value=28
 row1                                                 column=weather-data:time, timestamp=1534969291693, value=1534443339142
 row10                                                column=weather-data:deviceId, timestamp=1534969294346, value=11c1310e-c0c2-461b-a4eb-f6bf8da2d23c
 row10                                                column=weather-data:latitude, timestamp=1534969294346, value=52.14691120000001
 row10                                                column=weather-data:longitude, timestamp=1534969294346, value=11.658838699999933
 row10                                                column=weather-data:temperature, timestamp=1534969294346, value=28
 row10                                                column=weather-data:time, timestamp=1534969294346, value=1534443419289
 row100                                               column=weather-data:deviceId, timestamp=1534969312843, value=11c1310e-c0c2-461b-a4eb-f6bf8da2d23c
 row100                                               column=weather-data:latitude, timestamp=1534969312843, value=52.14691120000001
 row100                                               column=weather-data:longitude, timestamp=1534969312843, value=11.658838699999933
 row100                                               column=weather-data:temperature, timestamp=1534969312843, value=24
 row100                                               column=weather-data:time, timestamp=1534969312843, value=1534443635425
 row101                                               column=weather-data:deviceId, timestamp=1534969312925, value=11c1310e-c0c2-461b-a4eb-f6bf8da2d23c
 row101                                               column=weather-data:latitude, timestamp=1534969312925, value=52.14691120000001
 row101                                               column=weather-data:longitude, timestamp=1534969312925, value=11.658838699999933
 row101                                               column=weather-data:temperature, timestamp=1534969312925, value=24
 row101                                               column=weather-data:time, timestamp=1534969312925, value=1534443635425
 row102                                               column=weather-data:deviceId, timestamp=1534969313027, value=11c1310e-c0c2-461b-a4eb-f6bf8da2d23c
 row102                                               column=weather-data:latitude, timestamp=1534969313027, value=52.14691120000001
 row102                                               column=weather-data:longitude, timestamp=1534969313027, value=11.658838699999933
 row102                                               column=weather-data:temperature, timestamp=1534969313027, value=24
 row102                                               column=weather-data:time, timestamp=1534969313027, value=1534443635425
 row103                                               column=weather-data:deviceId, timestamp=1534969313132, value=11c1310e-c0c2-461b-a4eb-f6bf8da2d23c
 row103                                               column=weather-data:latitude, timestamp=1534969313132, value=52.14691120000001
 row103                                               column=weather-data:longitude, timestamp=1534969313132, value=11.658838699999933
 row103                                               column=weather-data:temperature, timestamp=1534969313132, value=24
 row103                                               column=weather-data:time, timestamp=1534969313132, value=1534443635425
 row104                                               column=weather-data:deviceId, timestamp=1534969313239, value=11c1310e-c0c2-461b-a4eb-f6bf8da2d23c
 row104                                               column=weather-data:latitude, timestamp=1534969313239, value=52.14691120000001
 row104                                               column=weather-data:longitude, timestamp=1534969313239, value=11.658838699999933
 row104                                               column=weather-data:temperature, timestamp=1534969313239, value=24
 row104                                               column=weather-data:time, timestamp=1534969313239, value=1534443635425
 row105                                               column=weather-data:deviceId, timestamp=1534969313373, value=11c1310e-c0c2-461b-a4eb-f6bf8da2d23c
 row105                                               column=weather-data:latitude, timestamp=1534969313373, value=52.14691120000001
 row105                                               column=weather-data:longitude, timestamp=1534969313373, value=11.658838699999933
 row105                                               column=weather-data:temperature, timestamp=1534969313373, value=24
 row105                                               column=weather-data:time, timestamp=1534969313373, value=1534443635425
 row106                                               column=weather-data:deviceId, timestamp=1534969313476, value=11c1310e-c0c2-461b-a4eb-f6bf8da2d23c
```