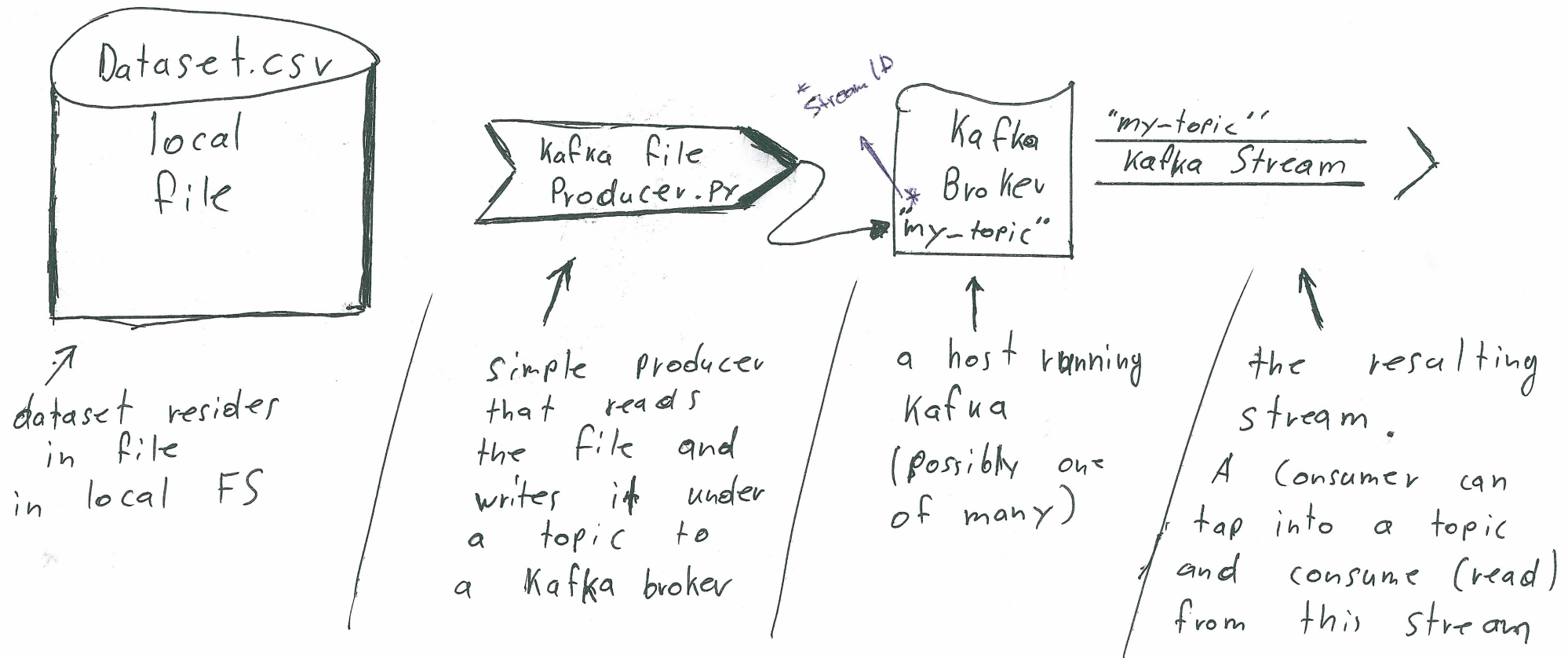


Stream Production



Overview: Real simple: Some lines from a .csv file are written on a stream under "my-topic"

Kafka Stream Consumption on Spark Streaming

Kafka Stream "my-topic"

KafkaUtils.
createStream(
broker-host:port
topic:1...)

Kafka
Consumer

Converts an
input stream
to a D-Stream

D-Stream (discretized Stream)

Rdd_n - Rdd_{n-1} - ... Rdd₂ - Rdd₁

Spark
ForEach Rdd(
do fuction)

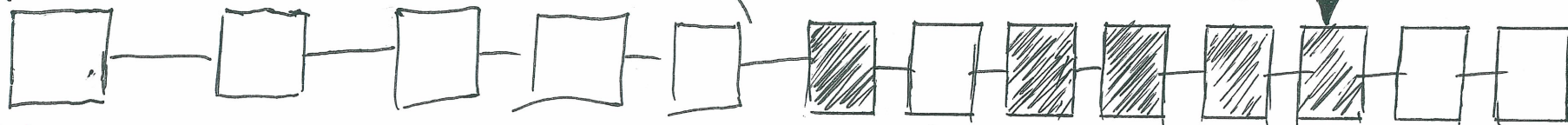
Spark Streaming Custom Experiment

D-Stream

Continuous

-ERCI = 5 Empty Rdds

First non-empty Rdd



↑ 5)

- 1) This is where we can realize that an experiment has been started
- 2) update time delta (based on prev_time and now)

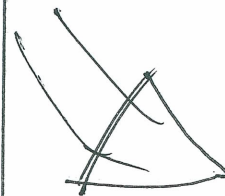
Empty Rdd.:
A single one, or (less than -ERCI) does not mean that the experiment has ended

Start = Previous (empty) Rdd end time
rdd-times[0]
rdd-times[1]

- 3) add "now" time to rdd times and rdd.count to "records"

- 4) Printout

- 5) If the last -ERCI batches (Rdds) were empty, we deduce that the experiment has ended



end result

rdd-times: [0, t₁, t₂, ... t_n]
(rdd-)records [0, Count₁, Count₂, ... C_n]