Spark Streaming API Programming model (Illustration)



Spark Streaming API for Python: pyspark.streaming

DStrem object represents the streaming data **DStrem** type provides from pyspark import SparkContext transformation and actions like from pyspark.streaming import StreamingContext RDD # 1. Create StreamingContext ssc = StreamingContext(1) slide interval: 1s window length: 1s # 2. Connect to the data source (DStream) lines = ssc.socketTextStream("devenv", 9999) # 3. Analysis with transformans and actions slide interval: 1s window length: 1s words = lines.flatMap(f1) (DStream) pairs = words.map(f2)word counts = pairs.reduceByKey(f3) slide interval: 1s window length: 1s word counts.pprint(30) (DStream) # 4. Start the computation ssc.start() slide interval: 1s window length: 1s ssc.awaitTermination() (DStream)

batch internal = 1S Decide the length of the RDD by time period.

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