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SPARK STREAMING PART-2 STATELESS AND STATEFULL TRANSFORMATIONS

By www.HadoopExam.com

Note: These instructions should be used with the HadoopExam Apache Spark: Professional Trainings.

Where it is executed and you can do hands on with trainer.

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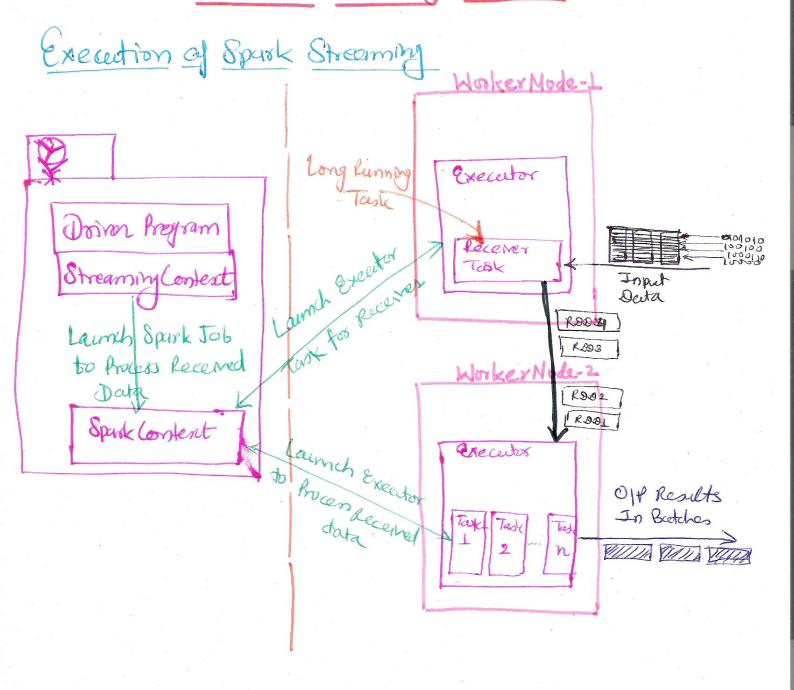


Cloudera CCA175 (Hadoop and Spark Developer Hands-on Certification available with total 75 solved problem scenarios. Click for More Detail)

- Real/Near real time data processing
- 2. Streaming Sources and Sinks
- 3. DStream (Discretized Stream)
- 4. Dtream Concepts
- 5. Stock Visualization Example (How Streaming Helpful)

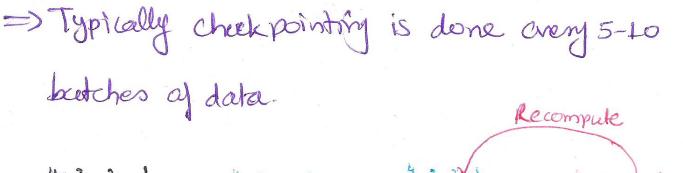


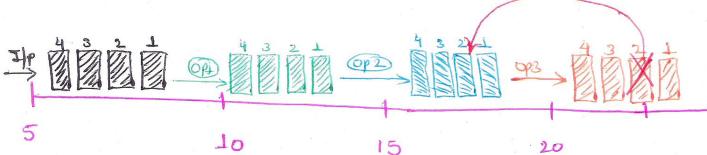
Spark Streaming Part - 2



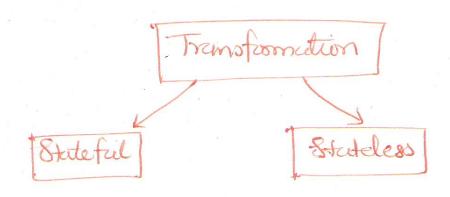
- D'for each input source, Spark Streaming Launches Receivers.
- Decemen: (Longer Task): Running within applications executors that collect data from the ilp source and serve it is RDD.

- 3 This created RDD now Replicated to another made for fault tolerance.
- (1) This Data (RDD) is stored in memory of the executors in some way as of cached RDD's.
- The StreamingContext in the Driver Program then Beriodically rums Spark Jobs to process this data and combine it with RDD's from previous tronce. Steps.
- @ Lineage: Summe ces cere spark, it can also derive Or recompute Lost RDD.
- First Consuming: using lineage, Recompretation could take a long time for data that has been built up since beginning af the program.
- @ Checkfornting: Thus Spack streaming also includes a mechanism called checkpointing that seves state periodizably to a reliable filesystem e.g. HDFS, S3.



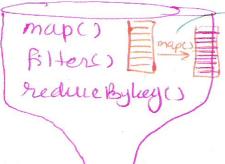


Transformation



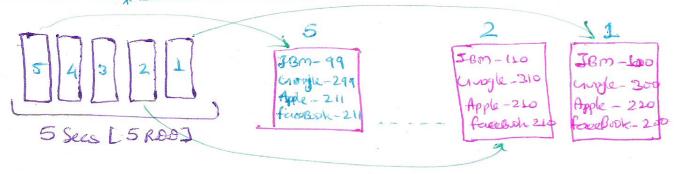
1 Stuteless: - Processing of each boatch does not depend on the data of its previous butches.





Produce new Raw for each Raw On same Rod

Stateful Transformation



- D'Euch RDD Contains Stock name and its current price (key, value)
- 1 Now calculate Average price for every 5 seconds.
- 3 Hence all the RDDs needs to be processed topther C They depend on each other)
- 4) They include transformations based on sliding wordows.
- =) More on Stateless Transformation:

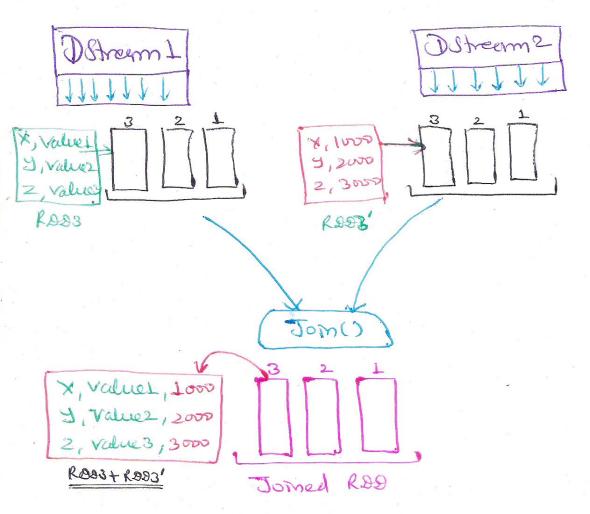
API - mapl), fleetmapl), filterl)
repartition() -> change the number of lastitions
of the Detreem.

- =) Reduce by key () toro
- => (mupBykey



=) Each Stateless transformation applies separately to each ROD.

=> Stateless Transformation & Combining Multiple Difream



=> In stuteless transformations data can be combined from multiple Istreum as shown above, within each timustep. for Instance

Jones, cogroupes, leftouterjoines

=) Similarly we can also monge the contents of two different Distream using usion operator.

Applying Custom transformation Using transform() operator

- =) transform() allows you to operate directly on the RDIs mode them.
- >> You have, your transformation (Custom logic)
 written which you have regularly using for
 Spark batch processing.
- in Detreum. How would you do that

Val Custom RDD = datastreem. transformation (Grade)

2 dd => custom Transformation (Grade)

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