Distribution and Instrumentation



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Course Overview

- Basics of Spark
- Core API
- Cluster Managers
- Spark Maintenance

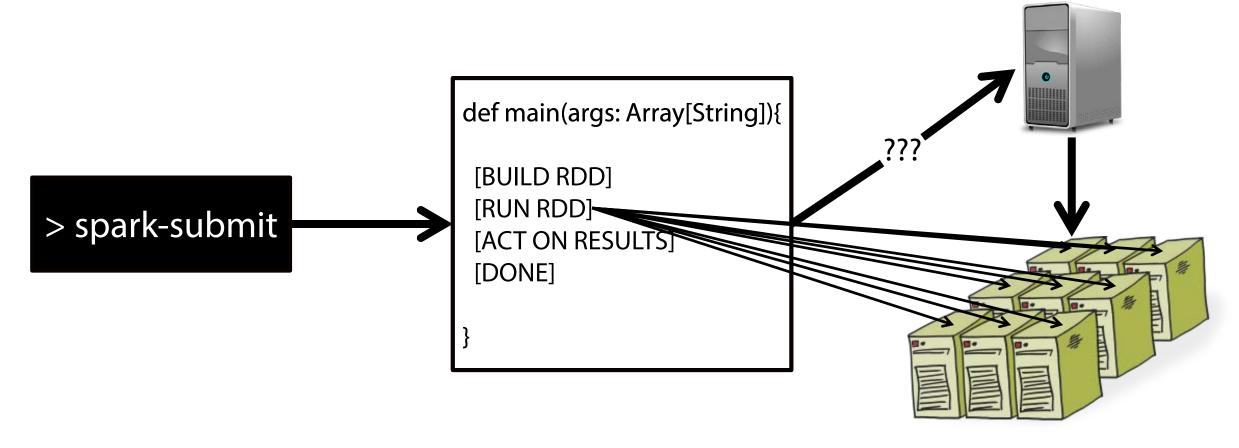
- Libraries
 - SQL
 - Streaming
 - MLlib/GraphX
- Troubleshooting / Optimization
- Future of Spark

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spark-submit



Cluster Managers





















Cluster Managers







Cluster Managers



--master yarn-cluster

HADOOP/YARN_CONF_DIR

client/cluster

--num-executors 2

--executor-cores 1

--queues default



--master spark://[HOST]:7077

client/cluster

spark.deploy.spreadOut=false

--total-executor-cores #





--master mesos://[HOST]:5050

client/(cluster)

spark.mesos.coarse=falæ

--total-executor-cores # spreadOut



- > bin/spark-class org.apache.spark.deploy.master.Master
- > bin/spark-class org.apache.spark.deploy.worker.Worker
 spark://[MASTER]:7077

https://spark.apache.org/docs/latest/spark-standalone.html

Resources

- https://open.mesosphere.com/tutorials/run-spark-on-mesos/
- AWS
 - Pluralsight: Big Data on Amazon Web Services/AWS Developer Fundamentals
 - https://aws.amazon.com
 - /documentation/ec2/
 - /ec2/spot/
 - /elasticmapreduce/details/spark/
- http://bit.ly/1NiEsWS: Understanding your Spark application through visualization
- https://spark.apache.org/docs/latest/configuration.html

Summary

- spark-submit
- Clusters
 - StandAlone
 - YARN
 - Mesos
- Spark on EMR
- Spark UI