在Hadoop 上运行Tensorflow

官网帮助

 $\underline{https://github.\,com/tensorflow/examples/blob/master/community/en/docs/deploy/hadoop.\,md}$

```
export JAVA HOME=/usr/java/jdk1.8.0 192
export HADOOP HOME=/opt/cloudera/parcels/CDH/lib/hadoop
source $HADOOP_HOME/libexec/hadoop-config.sh
LD_LIBRARY_PATH=$ {LD_LIBRARY_PATH} : $ {JAVA_HOME} / jre/lib/amd64/server:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/li
\verb|export CLASSPATH=$ ($ {HADOOP\_HOME} / bin/hadoop classpath --glob): $ {CLASSPATH} | bin/hadoop classpath --glob): $ (CLASSPATH) | bin/hadoop classpath --glo
/etc/alternatives/spark-submit \
 --master yarn \
--deploy-mode client \
--queue xy_yarn_pool.development \
--num-executors 2 \
 --executor-memory 2G \
--conf spark.executorEnv.LD_LIBRARY_PATH=${LD_LIBRARY_PATH} \
--conf spark.executorEnv.CLASSPATH=${CLASSPATH} \
/tmp/keras_inference_.py \
 --cluster_size 3 \
--images\_labels / tmp/TensorFlowOnSpark/examples/mnist/tfr/test \ \backslash \\
--export hdfs://bigdata-1.baofoo.cn:8020/user/xy_hpt/best_model.pb \
 --output / \
 --test_file /user/xy_hpt/test.txt
#cluster模式
/etc/alternatives/spark-submit \
--master yarn \
--deploy-mode cluster \
--queue xy_yarn_pool.development \
--num-executors 2 \setminus
--executor-memory 2G \
--conf spark.executorEnv.LD_LIBRARY_PATH=${LD_LIBRARY_PATH} \
--conf spark.executorEnv.CLASSPATH=$\{CLASSPATH\} \
hdfs:///tmp/keras_inference_.py \
--cluster_size 3 \
-images\_labels /tmp/TensorFlowOnSpark/examples/mnist/tfr/test \setminus
--export hdfs://bigdata-1.baofoo.cn:8020/user/xy_hpt/best_model.pb \
--output / \
--test_file /user/xy_hpt/test.txt
                                           -----线上环境
export JAVA_HOME=/usr/java/jdk1.8.0_141-cloudera
export HADOOP HOME=/opt/cloudera/parcels/CDH/lib/hadoop
source $HADOOP_HOME/libexec/hadoop-config.sh
LD_LIBRARY_PATH=$ {LD_LIBRARY_PATH} : $ {JAVA_HOME} / jre/lib/amd64/server:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/hadoop/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/lib/native:/opt/cloudera/parcels/CDH/li
export CLASSPATH=$(${HADOOP HOME}/bin/hadoop classpath --glob):${CLASSPATH}
--client模式
spark-submit \
--master yarn \
--deploy-mode client \
--queue xy_yarn_pool.development \
 --conf spark.ui.port=5051 \
```

```
--num-executors 2 \setminus
--executor-memory 2G \
--conf spark.executorEnv.LD_LIBRARY_PATH=${LD_LIBRARY_PATH} \
--conf spark.executorEnv.CLASSPATH=${CLASSPATH} \
/home/xy_yq/keras_inference_.py \
--cluster_size 3 \
--export hdfs://ns1/user/xy_yq/best_model.pb \
--test_file hdfs:///user/xy_yq/test.txt \
--word_index hdfs://ns1/user/xy_yq/nlp/models/word_index1.json
--cluster模式
spark-submit \
--master yarn \
--deploy-mode cluster \setminus
--queue xy_yarn_pool.development \
--conf spark.ui.port=5051 \setminus
--num-executors 2 \setminus
--executor-memory 2G \setminus
--conf spark.executorEnv.LD_LIBRARY_PATH=${LD_LIBRARY_PATH} \
--conf spark.executorEnv.CLASSPATH=${CLASSPATH} \
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--export hdfs://ns1/user/xy_yq/best_model.pb \
--test_file hdfs:///user/xy_yq/test.txt \
--word\_index\ hdfs://ns1/user/xy\_yq/nlp/models/word\_index1.json
```