Spark Clusters Install

☆ Install Scala (Master)

```
#安裝 Scala
 cd /tmp; wget https://downloads.lightbend.com/scala/2.11.8/scala-
   2.11.8.tgz
 tar zxvf /tmp/scala-2.11.8.tgz
 mv /tmp/scala-2.11.8 /opt
#建立軟連結
 ln -s /opt/scala-2.11.8 /opt/scala
#變更環境變數
 vi /etc/profile
 export SCALA HOME=/opt/scala
 export PATH=$SCALA_HOME/bin:$PATH
#重啟
 source /etc/profile
#查看 Scala 版本,確認是否安裝成功
 scala -version
#複製檔案至 Slaver1, Slaver2
 scp -rp /opt/scala-2.11.8/ root@slaver1:/opt/scala-2.11.8
 scp -rp /opt/scala-2.11.8/ root@slaver2:/opt/scala-2.11.8
 scp -rp /etc/profile root@slaver1:/etc/profile
 scp -rp /etc/profile root@slaver2:/etc/profile
#建立軟連結 (在 Slaver1, Slaver2 做)
 ln -s /opt/scala-2.11.8 /opt/scala
```

☆ Install spark-2.3.1-bin-hadoop2.7 (Master) #安裝 spark-2.3.1-bin-hadoop2.7 cd /tmp; wget https://archive.apache.org/dist/spark/spark-2.3.1/spark-2.3.1-bin-hadoop2.7.tgz tar zxvf /tmp/spark-2.3.1-bin-hadoop2.7.tgz mv /tmp/spark-2.3.1-bin-hadoop2.7 /opt #變更環境變數 vi /etc/profile export SPARK HOME=/opt/spark-2.3.1-bin-hadoop2.7 export PATH=\$SPARK HOME/bin:\$PATH export PYSPARK PYTHON=python3 export PYSPARK DRIVER PYTHON=ipython3 #重啟 source /etc/profile #建立 Slaver 資訊 /opt/spark-2.3.1-bin-hadoop2.7/conf/slaves 加入 master slaver1 slaver2 #複製檔案至 Saver1, Slaver2 scp -rp /opt/spark-2.3.1-bin-hadoop2.7/ root@slaver1:/opt/spark-2.3.1-bin-hadoop2.7 scp -rp /opt/spark-2.3.1-bin-hadoop2.7/ root@slaver2:/opt/spark-2.3.1-bin-hadoop2.7 scp -rp /etc/profile root@slaver1:/etc/profile scp -rp /etc/profile root@slaver2:/etc/profile

☆ Other settings (Every server)

#查看 Spark 版本,確認是否安裝成功

#建立軟連結(!!!在每台電腦做!!!)

which spark-submit

ln -s /usr/bin/python3 /usr/bin/python

ln -s /usr/bin/pip3 /usr/bin/pip

☆ Start Spark Clusters

Start the spark cluster
cd /opt/spark-2.3.1-bin-hadoop2.7/sbin
./start-all.sh

☆ Reboot

啟動 Zookeeper, Journalnode (!!!在每台電腦做!!!)
/opt/zookeeper/bin/zkServer.sh start
hadoop-daemon.sh start journalnode

啟動 HDFS (在 Master 做) start-all.sh

#啟動 Spark

cd /opt/spark-2.3.1-bin-hadoop2.7/sbin
./start-all.sh

☆ Success

