

Spark编译

源码下载:

https://spark.apache.org/downloads.html

注意:

- 1. Choose a Spark release:3.2.3(Nov 28,2022) 这里是3.2版本,之所以不选择3.3是因为3.3兼容性不好,各种支持,版本配置有许多问题,比如不适合Intelij
- 2. Choose a package type:Source Code 既然要魔改. 自然是要用源码来编程
- 3. Download Spark:spark-3.2.3.tgz 下载在windows本地就行,编译是在windows上,运行考虑在linux上进行.
- 4. 安装InteliJ.有学生版免费, 直接下ultimate,不用扣扣索索用社区版
- 5. 需要配置java 1.8.0,直接在IDEA里面自助下载环境就行,scala支持在插件里面下载,sbt那些不要管,maven命令会自己给你下好,scala要用最新的.

官方编译文档:

https://spark.apache.org/docs/latest/building-spark.html#building-a-runnable-distribution

^[1]Spark参考教程

请先按这个参考教程配置POM,否则编译必错无疑,其中最为可恶的就是Failed to execute goal net.alchim31.maven:scala-maven-plugin

^[2]net.alchim31.maven报错

不要按这个参考教程来,你乱插dependency没用,而且语法也不对,这里主要是要在pom.xml里找net.alchim31.maven这个字段,只有三个条目,找到有version的地方,改成3.2.2即可.

编译命令:

在Spark源码根目录下打开GitBash

./build/mvn -Phadoop-3.2 -Pyarn -Dhadoop.version=3.2.2 -Phive -Phive-thriftserver -DskipTests clean package

此处需要20min,这个命令会自动将各种依赖包安装好,所以会占网络资源,需要在maven的 settings里面配置阿里云镜像,参照^[3].

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./dev/make-distribution.sh
--name spark-3.2.3
--tgz -Phive
-Phive-thriftserver
-Pyarn -Phadoop-3.2
-Dhadoop.version=3.2.2
-Dscala.version=2.12.14
```

此处需要15min

```
cp /d/YuriRepo/spark-3.2.3/cont/tairscheduler.xml.template /d/YuriRepo/spark-3.2.3/cont/log4j.properties.aults.conf.template /d/YuriRepo/spark-3.2.3/conf/spark-env.sh.template /d/YuriRepo/spark-3.2.3/conf/worker cp /d/YuriRepo/spark-3.2.3/README.md /d/YuriRepo/spark-3.2.3/dist cp -r /d/YuriRepo/spark-3.2.3/bin /d/YuriRepo/spark-3.2.3/dist cp -r /d/YuriRepo/spark-3.2.3/python /d/YuriRepo/spark-3.2.3/dist '[' false == true ']' cp -r /d/YuriRepo/spark-3.2.3/sbin /d/YuriRepo/spark-3.2.3/dist '[' -d /d/YuriRepo/spark-3.2.3/R/lib/SparkR ']' '[' true == true ']'
TARDIR_NAME=spark-3.2.3-bin-spark-3.2.3
TARDIR=/d/YuriRepo/spark-3.2.3/spark-3.2.3-bin-spark-3.2.3 cp -r /d/YuriRepo/spark-3.2.3/dist /d/YuriRepo/spark-3.2.3-bin-spark-3.2.3 cp -r /d/YuriRepo/spark-3.2.3/dist /d/YuriRepo/spark-3.2.3-bin-spark-3.2.3 cp -r /d/YuriRepo/spark-3.2.3.tgz -C /d/YuriRepo/spark-3.2.3 spark-3.2.3-bin-spark-3.2.3 cm -rf /d/YuriRepo/spark-3.2.3/spark-3.2.3-bin-spark-3.2.3
```

成功会在目录下产生spark-3.2.3-bin-spark-3.2.3.tgz,解压文件的目录下面就是编译成功的结果.

- https://blog.csdn.net/liweihope/article/details/
 122863127?ops_request_misc=%7B%22request%5Fid%22%3A%221681262735
 16800182150439%22%2C%22scm%22%3A%2220140713.130102334.pc%5Fall.
 %22%7D&request_id=168126273516800182150439&biz_id=0&utm_medium=dist ribute.pc_search_result.none-task-blog-2_{all}first_rank_ecpm_v1~times_rank-8-122863127-null-null.142^{v82}insert_down1,201^{v4}add_ask,239^{v2}insert_chatgpt&utm_term=spark%E6%BA%90%E7%A0%81%E4%BF%AE%E6%94%B9%E9%A1%B9%E7%9B%AE&spm=1018.2226.3001.4187
- 2. https://www.cnblogs.com/war3blog/p/7864804.html <
- 3. https://blog.csdn.net/ITzhangminpeng/article/details/
 79936598?ops_request_misc=%7B%22request%5Fid%22%3A%2216812611451
 6800226566956%22%2C%22scm%22%3A%2220140713.130102334..%22%7D&
 request_id=168126114516800226566956&biz_id=0&utm_medium=distribute.pc_s
 earch_result.none-task-blog-2allsobaiduend~default-1-79936598-nullnull.142^{v82}insert_down1,201^{v4}add_ask,239^{v2}insert_chatgpt&utm_term=maven%E
 4%BF%AE%E6%94%B9%E9%98%BF%E9%87%8C%E4%BA%91%E9%95%9C
 %E5%83%8F&spm=1018.2226.3001.4187