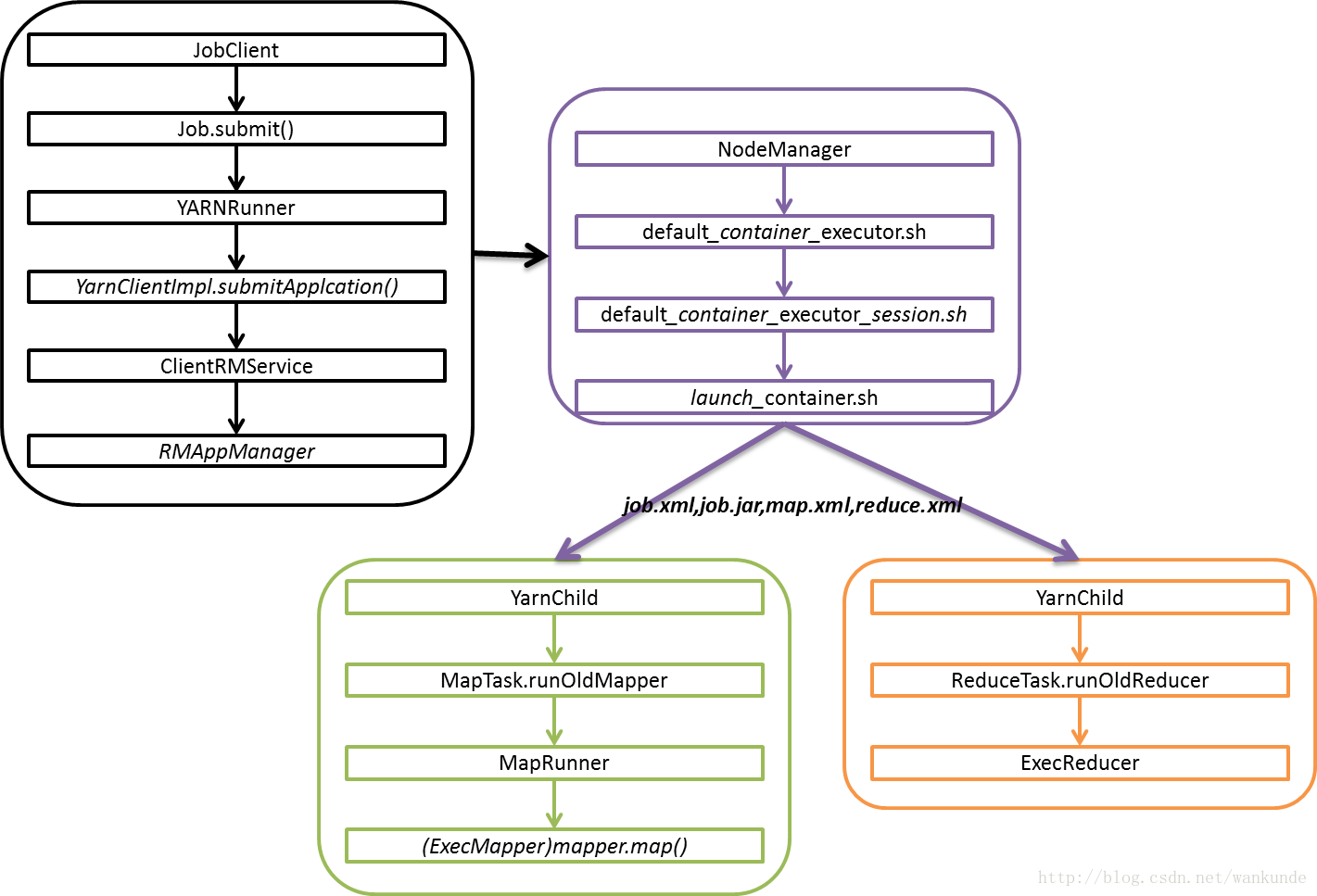
**Hive源码分析（七）-MapReduce执行流程分析**

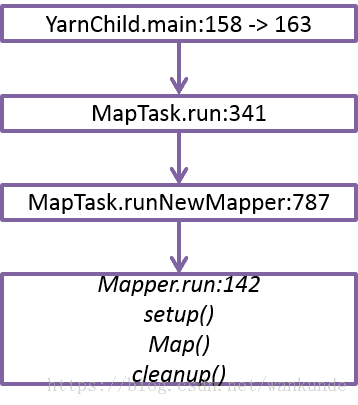
2017年02月21日 16:43:59

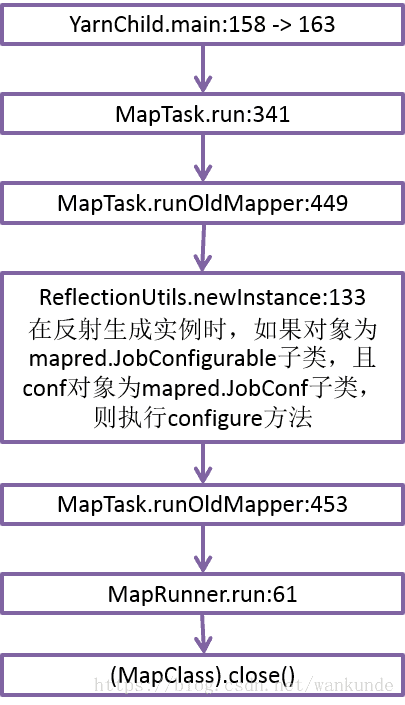
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**Hive 任务提交流程**



**MapReduce**

Map 执行流程   


OldMap(Hive MapExec)执行流程   


**RM中事件转发器：AsyncDispatcher**

通过rmcontext启动AM   
this.rmContext.getDispatcher().getEventHandler()   
.handle(new RMAppEvent(applicationId, RMAppEventType.START));   
这里看到getDispatcher取rmDispatcher。

rmDispatcher初始化在ResourceManager类中：   
rmDispatcher.register(SchedulerEventType.class, schedulerDispatcher);

// Register event handler for RmAppEvents

rmDispatcher.register(RMAppEventType.class,

new ApplicationEventDispatcher(rmContext));

// Register event handler for RmAppAttemptEvents

rmDispatcher.register(RMAppAttemptEventType.class,

new ApplicationAttemptEventDispatcher(rmContext));

// Register event handler for RmNodes

rmDispatcher.register(

RMNodeEventType.class, new NodeEventDispatcher(rmContext));

ApplicationEventDispatcher.handle –> RMAppImpl.handle 这里的start事件仅仅做了一个状态转换处理

**YarnChild 启动**

* 查看进程：ps -ef|grep java|grep YarnChild
* default\_container\_executor.sh 位置：/data/yarn/local/usercache/hadoop/appcache/application\_1486524626038\_0307/container\_e33\_1486524626038\_0307\_01\_000002/default\_container\_executor.sh
* 启动程序Java命令

$JAVA\_HOME/bin/java -Djava.net.preferIPv4Stack=true -Dhadoop.metrics.log.level=WARN -agentlib:jdwp=transport=dt\_socket,server=y,address=8002,suspend=y -Xmx1639m -Djava.io.tmpdir=$PWD/tmp -Dlog4j.configuration=container-log4j.properties -Dyarn.app.container.log.dir=/data/yarn/logs/application\_1486524626038\_0307/container\_e33\_1486524626038\_0307\_01\_000003 -Dyarn.app.container.log.filesize=0 -Dhadoop.root.logger=INFO,CLA org.apache.hadoop.mapred.YarnChild 10.20.9.42 41382 attempt\_1486524626038\_0307\_m\_000000\_1 36283883716611 1>/data/yarn/logs/application\_1486524626038\_0307/container\_e33\_1486524626038\_0307\_01\_000003/stdout 2>/data/yarn/logs/application\_1486524626038\_0307/container\_e33\_1486524626038\_0307\_01\_000003/stderr

* 示例Map执行流程   
  Operator List:   
  MapOperator -> TableScanOperator -> FilterOperator -> SelectOperator -> LimitOperator -> ReduceSinkOperator -> OutputCollector out.collect(key,value)

**MR 流程图**

