

Yarn 常见问题维护手册 V1.0

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文档版本 01

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华为技术有限公司

地址: 深圳市龙岗区坂田华为总部办公楼 邮编: 518129

网址: http://www.huawei.com

客户服务邮箱: <u>support@huawei.com</u>

客户服务电话: 4008302118

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YARN

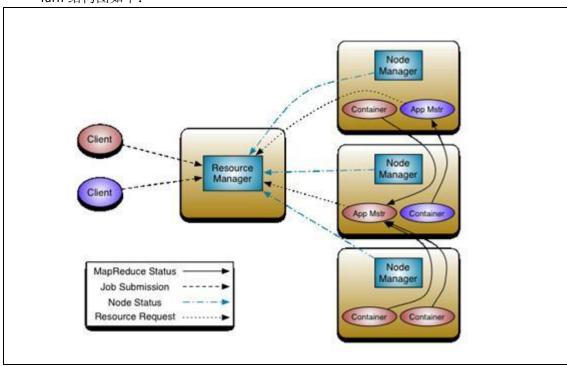
1、基本概念

本章简要介绍 Yarn 基本概念以及 Yarn 日志存放路径,以及常见问题的日志查看方法。

【概述】

Yarn 是 Hadoop 2.x 版本引入的一种资源管理框架。它将统一管理集群的资源,与任务调度分离,可以在其上层搭配不同的计算框架,如 MapReduce、Spark、Tez 等。

Yarn 结构图如下:



Yarn 的主要特点有:

- 将资源管理与任务调度分离,可以在其上层选择不同的分布式计算框架。
- 开放资源调度器的接口,可以选择使用不同的调度策略。

Yarn 各组件说明:

ResourceManager	Yarn 的主服务。主要完成资源申请、分配,任务的提交等调度任务。
NodeManager 以 container 的形式管理本节点上的资源,向 RM 保持心跳连接。	

【日志概述】

Yarn 日志

Yarn 日志包括两类,运行日志、审计日志;

日志路径:

运行日志: /var/log/Bigdata/yarn

审计日志: /var/log/Bigdata/audit/yarn

各日志功能如下表:

运行日志	yarn- <ssh_user>- <pre>cprocess_name>- <hostname>.log</hostname></pre></ssh_user>	YARN 组件日志,记录 YARN 组件运行时候所产生的大部分日志。
	yarn- <ssh_user>- <pre>cprocess_name>- <hostname>. out</hostname></pre></ssh_user>	YARN 运行环境信息日志。
	yarn. log	YARN 客户端操作日志。
	prestart-Detail.log	服务的预启动日志。
	startDetail.log	服务的启动日志。
	stopDetail.log	服务的停止日志。
	hadoop. log	Hadoop 客户端操作日志。
审计日志	yarn-audit- <process_name>.log</process_name>	YARN 操作审计日志。

MapReduce 日志

日志路径:

MapReduce 任务在**运行的过程**中,Map 和 Reduce 任务所运行的 Container 日志位于该任务所在节点的以下路径:

/srv/BigData/hadoop/data1/nm/containerlogs/<application_id>/<container_id>/

, , , ,	1, , ,	11 = 1 = 1
Container 日志	syslog	MapReduce 程序中使用 log4j 打印的日志信息。
	stdout	MapReduce 程序中使用标准输出流打印的信息。
	stderr	MapReduce 程序中使用标准错误流打印的信息。

MapReduce 任务**运行完成**后,相关日志会被拷贝至 HDFS 的以下路径,并且上述的三个子日志被合并为同一个文件:

/tmp/logs/<user_name>/logs/<application_id>/<hostname_port>

各个日志里都存放了什么信息?

审计日志

对于 Yarn 来说,审计日志主要记录了某个用户从哪个 IP 向 Yarn(主要是 ResourceManager) 提交的任务信息,以及 AppMaster 向 ResourceManager 的注册信息。

如下的 RM 审计日志,表示在 2016-03-22 10:12:21 用户 admin 向 RM 提交了一个 MapReduce 任务,客户端 IP 为 xxx.xxx.1.18。其中主要包括了任务提交,任务的 APPMaster 注册,任务的结果三条记录。

```
2016-03-22 1013271,058 | INFO | IFC Server handler 3 on 26004 | UEED-admin IF- 1.118 OFERATION-Schmit Application Request TABGET-ClientEMService RESULT-SUCCESS AFFID-application_14586096 29121_0001 | ReModitiopger.javars91 |
2016-03-22 1012275,812 | INFO | Socker Reader #1 for pport 26002 | Nuth successful for appartager_1458609629271 0001 000001 | Auth:SIMPLE] | Server_javar1334 |
2016-03-22 1012275,812 | INFO | IFC Server handler 8 on 26002 | USER-admin | IP- 1.118 OFERATION-Register App Restar TABGET-ClientEMService RESULT-SUCCESS AFFID-application_14586096 |
2016-03-22 1013301,233 | INFO | Socker Reader #1 for pport 26004 | Auth successful for inter/hadop_hadopop.com@BADOPC.COM (auth:REFEREOS) | Server_javar1334 |
2016-03-22 1013310,223 | INFO | Socker Reader #1 for pport 26004 | Auth successful for hive/hadop_hadopop.com@BADOPC.COM (auth:REFEREOS) | Server_javar1334 |
2016-03-22 1013310,223 | INFO | Socker Reader #1 for pport 26004 | Auth successful for mapper-dadop.com@BADOPC.COM (auth:REFEREOS) | Server_javar1334 |
2016-03-22 1013310,223 | INFO | Socker Reader #1 for pport 26004 | Auth successful for mapper-dadop.com@BADOPC.COM (auth:REFEREOS) | Server_javar1334 |
2016-03-22 1013310,223 | INFO | Socker Reader #1 for pport 26004 | Auth successful for mapper-dadop.com@BADOPC.COM (auth:REFEREOS) | Server_javar1334 |
2016-03-22 1013310,223 | INFO | Socker Reader #1 for pport 26004 | Auth successful for mapper-dadop.com@BADOPC.COM (auth:REFEREOS) | Server_javar1334 |
2016-03-22 1013310,223 | INFO | Socker Reader #1 for pport 26004 | Auth successful for mapper-dadop.com@BADOPC.COM (auth:REFEREOS) | Server_javar1334 |
2016-03-22 1013310,223 | INFO | Socker Reader #1 for pport 26004 | Auth successful for mapper-dadop.com@BADOPC.COM (auth:REFEREOS) | Server_javar1334 |
2016-03-22 1013310,223 | INFO | Socker Reader #1 for pport 26004 | Auth successful for mapper-dadop.com@BADOPC.COM (auth:REFEREOS) | Server_javar1334 |
2016-03-22 1013310,223 | INFO | Socker Reader #1 for pport 26004 | Auth successful for mapper-da
```

审计日志就是对这些流程动作进行了一下记录,对 Yarn 的问题定位来说,较少来查看这些信息。

ResourceManager 运行日志

ResourceManager 负责接收客户端请求(MR/Spark 等任务),然后为任务分配第一个资源启动 APPMaster 并管理 APPMaster 的生命周期,接受来自 APPMaster 的资源申请。ResourceManager 运行日志中将记录这些信息。

以下为截取的 ResourceManager 日志,从内部状态机的角度展示了 RM 中 APP 的运行过程。

NodeManager 运行日志

NodeManager 管理本节点的所有资源,向 RM 保持心跳并领取和启动对应的任务。 NodeManager 运行日志将记录这些信息。

以下为截取的 NodeManager 日志,从内部状态机的角度展示了 RM 中 APP 的运行过程。

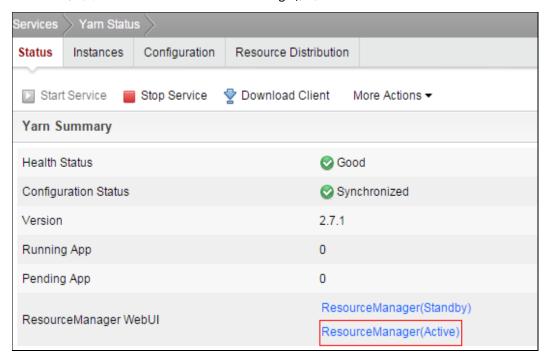
```
| 2016-03-22 lili1957,428 | INTO | Asymchispatcher event handler | Application application_189869829212_0003 transitioned from INTI NO ENUMBRISH | Asymchispatcher event handler | Application application_18986982912_0003 transitioned from INTI NO ENUMBRISH | Asymchispatcher event handler | Resource hdfs://hacluster:8020/tmp/hadoop-yarm/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/staging/sdmin/s
```

GC 日志

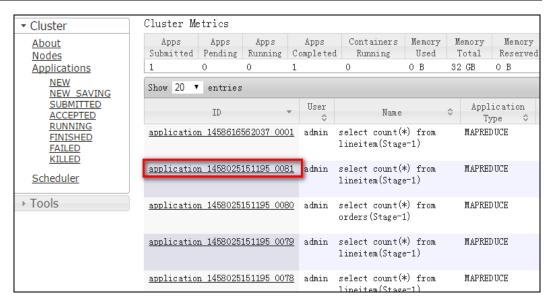
ResourceManager 和 NodeManager 均有 GC 日志,当我们遇到 GC 问题可以 GC 日志以快速定位是否是 GC 导致。

MapReduce 日志

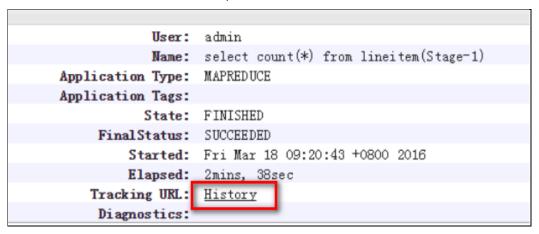
进入 OM 页面 Services->Yarn->ResourceManager,如图:



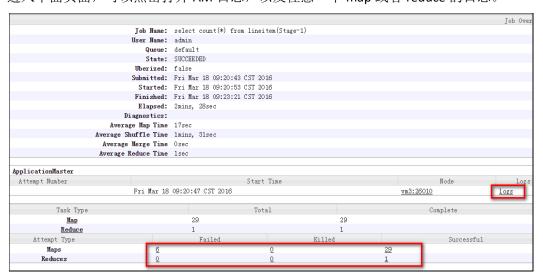
进入 Yarn 的页面后,找到我们刚才找到的 jobld,如下:



然后可以看见如下页面,点击 History。



进入下面页面,可以点击打开 AM 日志,以及任意一个 map 或者 reduce 的日志。



最终可以看到 MapReduce 的执行日志:

```
Log Type: stderr
 log4j:WARN No appenders could be found for logger (org.apache.hadoop.ipc.Server).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
Log Type: stdout
Log Length: O
  Log Type: syslog
Log Length: 3972205

Showing 4096 bytes of 3972205 total. Click here for the full log.

DEBUG [IPC Server handler 8 on 25102] org apache hadoop.ipc.Server: IPC Server handler 8 on 25102: exiting

2016-03-18 09:23:22,627 DEBUG [IPC Server handler 12 on 25102] org apache hadoop.ipc.Server: IPC Server handler 12 on 25102: exiting

2016-03-18 09:23:22,627 DEBUG [IPC Server handler 13 on 25102] org apache.hadoop.ipc.Server: IPC Server handler 13 on 25102: exiting
 2016-03-18 09:23:22,627 DEBUG [IPC Server handler 15 on 25102] org. apache. hadoop. ipc. Server: IPC Server handler 14 on 25102: 2016-03-18 09:23:22,627 DEBUG [IPC Server handler 15 on 25102] org. apache. hadoop. ipc. Server: IPC Server handler 15 on 25102: 2016-03-18 09:23:22,627 DEBUG [IPC Server handler 16 on 25102] org. apache. hadoop. ipc. Server: IPC Server handler 16 on 25102: 2016-03-18 09:23:22,627 DEBUG [IPC Server handler 17 on 25102] org. apache. hadoop. ipc. Server: IPC Server handler 17 on 25102.
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  2016-03-18 09:23:22, 627 DEBUG [IPC Server handler 18 on 25102] org. apache. hadoop. ipc. Server: 2016-03-18 09:23:22, 627 DEBUG [IPC Server handler 19 on 25102] org. apache. hadoop. ipc. Server:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IPC Server handler 18 on 25102
IPC Server handler 19 on 25102
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  2016-03-18 09:23:22,627 DEBUG [IPC Server handler 20 on 25102] org apache hadoop ipc Server:
2016-03-18 09:23:22,627 DEBUG [IPC Server handler 21 on 25102] org apache hadoop ipc Server:
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 2016-03-18 09:23:22,628 DEBUG [IPC Server handler 21 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 21 on 25102: 2016-03-18 09:23:22,628 DEBUG [IPC Server handler 22 on 25102: 2016-03-18 09:23:22,628 DEBUG [IPC Server handler 24 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 22 on 25102: 2016-03-18 09:23:22,628 DEBUG [IPC Server handler 24 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 24 on 25102: 2016-03-18 09:23:22,628 DEBUG [IPC Server handler 27 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 27 on 25102: 2016-03-18 09:23:22,629 DEBUG [IPC Server handler 27 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 27 on 25102: 2016-03-18 09:23:22,629 DEBUG [IPC Server handler 27 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 27 on 25102: 2016-03-18 09:23:22,629 DEBUG [IPC Server handler 27 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 27 on 25102: 2016-03-18 09:23:22,629 DEBUG [IPC Server handler 27 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 28 on 25102: 2016-03-18 09:23:22,629 DEBUG [IPC Server handler 27 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 29 on 25102: 2016-03-18 09:23:22,629 DEBUG [IPC Server handler 27 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 29 on 25102: 2016-03-18 09:23:22,629 DEBUG [IPC Server handler 27 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 29 on 25102: 2016-03-18 09:23:22,629 DEBUG [IPC Server handler 27 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 29 on 25102: 2016-03-18 09:23:22,629 DEBUG [IPC Server handler 27 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 29 on 25102: 2016-03-18 09:23:22,629 DEBUG [IPC Server handler 27 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 29 on 25102: 2016-03-18 09:23:22,629 DEBUG [IPC Server handler 27 on 25102] org. spache.
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  2016-03-18 09:23:22,629 DEBUG [IPC Server handler 25 on 25102] org. apache.hadoop.ipc.Server: IPC Server handler 25 on 25102; ex 2016-03-18 09:23:22,629 INFO [IPC Server listener on 25102] org. apache.hadoop.ipc.Server: Stopping IPC Server listener on 25102
 2016-03-18 09:23:22, 629 DEBUG [IPC Server Instead on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 28 on 25102: exiting 2016-03-18 09:23:22, 629 DEBUG [IPC Server handler 28 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 28 on 25102: exiting 2016-03-18 09:23:22, 629 DEBUG [IPC Server handler 28 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 28 on 25102: exiting 2016-03-18 09:23:22, 630 DEBUG [IPC Server handler 29 on 25102] org. spache. hadoop. ipc. Server: IPC Server handler 29 on 25102: exiting 2016-03-18 09:23:22, 633 DEBUG [IPC Server Responder] org. spache. hadoop. ipc. Server: Checking for old call responses. 2016-03-18 09:23:22, 633 DEBUG [IPC Server Responder] org. spache. hadoop. ipc. Server: Stopping IPC Server Responder 2016-03-18 09:23:22, 633 DEBUG [IPC Server Responder] org. spache. hadoop. ipc. Server: Stopping IPC Server Responder 2016-03-18 09:23:22, 633 DEBUG [IPC Server Responder] org. spache. hadoop. ipc. Server: Stopping IPC Server Responder 2016-03-18 09:23:22, 633 DEBUG [IPC Server Responder] org. spache. hadoop. ipc. Server: Stopping IPC Server Responder 2016-03-18 09:23:22, 633 DEBUG [IPC Server Responder] org. spache. hadoop. ipc. Server: Stopping IPC Server Responder 2016-03-18 09:23:22, 633 DEBUG [IPC Server Responder] org. spache. hadoop. ipc. Server: Stopping IPC Server Responder 2016-03-18 09:23:22, 633 DEBUG [IPC Server Responder] org. spache. hadoop. ipc. Server: Stopping IPC Server Responder 2016-03-18 09:23:22, 633 DEBUG [IPC Server Responder] org. spache. hadoop. ipc. Server: Stopping IPC Server Responder 2016-03-18 09:23:22, 633 DEBUG [IPC Server Responder] org. spache. hadoop. ipc. Server: Stopping IPC Server Responder 2016-03-18 09:23:22, 633 DEBUG [IPC Server Responder] org. spache. hadoop. ipc. Server: Stopping IPC Server Responder 2016-03-18 09:23:22, 633 DEBUG [IPC Server Responder] org. spache. hadoop. ipc. Server: Stopping IPC Server Responder 2016-03-18 09:23:22, 633 DEBUG [IPC Server Responder] org. spache. hadoop. ipc
  2016-03-18 09:23:22,633 DEBUG [Thread-142] org. apache. hadoop. service. CompositeService: Stopping service #0: Service TaskfeartheatHandler
```

2、常见问题

注意: 案例中 IP 地址信息,请根据实际情况进行修改。

【任务提交异常】

[YARN-10001] 在 Windows 环境下提交 MR 任务失败。

【问题背景与现象】

在 windows 上开发 MR 应用程序后失败:

```
40014 [main] INFO org.apache.hadoop.mapreduce.Job - Job job_1458609629121_0009 failed with state FAILED
 For more detailed output, check the application tracking page:https://160-138-1-182:26001/cluster/app/app
 Diagnostics: Exception from container-launch.
 Container id: container_1458609629121_0009_02_000001
 Exit code: 1
 Stack trace: <a href="ExitCodeException"><u>ExitCode=1</u>:</a>
                                          at org.apache.hadoop.util.Shell.runCommand(Shell.java:556)
                                           at org.apache.hadoop.util.Shell.run(Shell.java:467)
                                          at org.apache.hadoop.util.Shell$ShellCommandExecutor.execute(Shell.java:733)
                                          \verb|at org.apache.hadoop.yarn.server.nodemanager.LinuxContainerExecutor.launchContainer(LinuxContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainerContainer
                                          \verb|at org.apache.hadoop.yarn.server.nodemanager.containermanager.launcher.ContainerLaunch.call (\verb|Containermanager.launcher.Containermanager.launcher.Containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containermanager.containe
                                          \verb|at org.apache.hadoop.yarn.server.nodemanager.containermanager.launcher.ContainerLaunch.call \\ \hline (Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.launcher.Containermanager.laun
                                          at java.util.concurrent.FutureTask.run(FutureTask.java:266)
                                          at java.util.concurrent.ThreadPoolExecutor.runWorker(<a href="https://doi.org/10.1001/java:1142">https://doi.org/10.1001/java:1142</a>)
                                           at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:617)
                                           at java.lang.Thread.run(Thread.java:745)
 Shell output: main : command provided 1
main : run as user is omm
main : requested yarn user is omm
 .
Container exited with a non-zero exit code 1
 Failing this attempt. Failing the application.
 40075 [main] INFO org.apache.hadoop.mapreduce.Job - Counters: 0
```

【可能原因】

1. 未设置跨平台提交任务的配置参数 mapreduce.app-submission.cross-platform。

【解决办法】

 将客户端参数 mapreduce.app-submission.cross-platform 参数设置为 true。 参数添加方式请参阅[Yarn-40001]如何添加客户端参数。

[YARN-10002] 怎样在 Yarn 提交任务的时候指定队列。

【问题背景与现象】

如何在 Yarn 提交任务的时候指定队列?

【解决办法】

1. 将 mapreduce.job.queuename 设置为想要提交的队列名。 参数添加方式请参阅[Yarn-40001]如何添加客户端参数。

[YARN-10003] 如何让 MR 任务输出的压缩文件。

【问题背景与现象】

如何让 MR 任务输出的压缩文件?

【解决办法】

1. 当前 Yarn 支持以下几种压缩格式:

org.apache.hadoop.io.compress.BZip2Codec org.apache.hadoop.io.compress.Lz4Codec org.apache.hadoop.io.compress.DeflateCodec org.apache.hadoop.io.compress.SnappyCodec org.apache.hadoop.io.compress.GzipCodec

2. 以 gz 为例: 通过在客户端代码或者 mapred-sit.xml 中指定如下参数可以让 MR 任务输出为 gz 压缩:

mapreduce.output.fileoutputformat.compress=true
mapreduce.output.fileoutputformat.compress.type=BLOCK
mapreduce.output.fileoutputformat.compress.codec=org.apache.hadoop.io.compress.Gz
ipCodec

3. 可以仅配置 map 的输出是否为压缩文件

mapreduce.map.output.compress=true

mapreduce.map.output.compress.codec= org.apache.hadoop.io.compress.GzipCodec

4. 参数配置方式请参阅[Yarn-40001]如何添加客户端参数。

【任务运行异常】

[YARN-20001]MR 任务运行失败,报虚拟内存不足

【问题背景与现象】

MR 任务执行失败。

【原因分析】

1. 查看 AM 日志中发现 beyond virtual memory limits,具体信息如下:

Container[pid=41884,containerID=container_1405950053048_0016_01_000284] is running beyond virtual memory limits. Current usage: 314.6 MB of 2.9 GB physical memory used; **8.7 GB of 6.2 GB virtual memory used**. Killing container.

2. 分配给 container 的虚拟内存不足

【解决办法】

1. 增加 container 能使用的虚拟内存大小。 虚拟内存的配置是由物理内存以及虚拟内存和物理内存的使用比例得到的 yarn.nodemanager.resource.memory-mb*yarn.nodemanager.vmem-pmem-ratio,因此, 可以通过增加这两个参数的方式进行处理。其中 yarn.nodemanager.vmem-pmem-ratio 是服务端参数。

【扩展介绍】

1. MR 的内存参数介绍

	·
yarn.app.mapreduce.am.resource.mb	MR ApplicationMaster 占用的内存量
yarn.app.mapreduce.am.command-	AM 进程的 JVM 参数,其中-Xmx 最大不能
opts	超过 yarn.app.mapreduce.am.resource.mb
mapreduce.map.memory.mb	每个 Map Task 需要的内存量
mapreduce.map.java.opts	Map 的 JVM 参数,其中-Xmx 最多不能超过
	mapreduce.map.memory.mb * 0.75
mapreduce.reduce.memory.mb	每个 Reduce Task 需要的内存量
mapreduce.reduce.java.opts	Reduce 的 JVM 参数,其中-Xmx 最多不能超
	过 mapreduce.reduce.memory.mb * 0.75
yarn.nodemanager.vmem-pmem-ratio	Container 能使用的虚拟内存和物理内存的
	比例
yarn.scheduler.maximum-allocation-	单个 Container 能申请的最大内存
mb	
yarn.scheduler.minimum-allocation-	单个 Container 能申请的最小内存
mb	

[YARN-20002]MR 任务运行失败,报 OOM 异常

【问题背景与现象】

MR 任务执行失败。

【原因分析】

1. 查看 AM 日志中发现 beyond virtual memory limits,具体信息如下:

Container[pid=41884,containerID=container_1405950053048_0016_01_000284] is running beyond virtual memory limits. Current usage: 314.6 MB of 2.9 GB physical memory used; 8.7 GB of 6.2 GB virtual memory used. Killing container.

2. 分配给 container 的内存不足

【解决办法】

1. 增加 container 能使用的内存大小。 增加 mapreduce.map.memory.mb 或 mapreduce.map.java.opts 的值。这两者是有关联 关系的,通常默认是 0.8,建议设置为 0.75,可由 mapreduce.job.heap.memory-mb.ratio 进行指定。

[YARN-20003] 集群资源足够时,仍然有大量任务处于 Accepted 状态

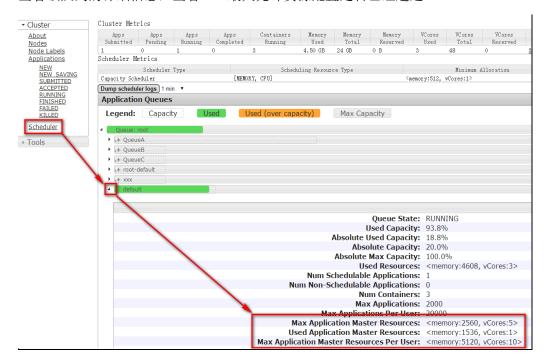
【问题背景与现象】

集群资源足够时,仍然有大量任务处于 Accepted 状态。



【原因分析】

1. 查看该队列的详细信息,查看 AM 最大允许资源配置是否已经超过。



【解决办法】

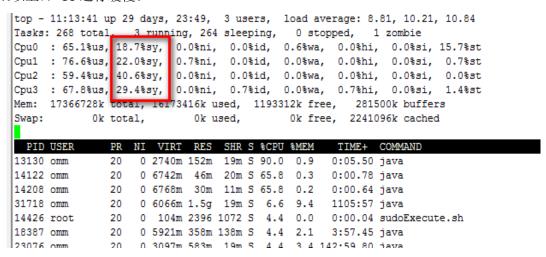
1. 如果 Used Application Master Resources 已经超过 Max Application Master Resources,

则 需 要 等 待 某 个 任 务 结 束 后 才 能 继 续 启 动 下 一 个 任 务 。 可 以 调 整 yarn.scheduler.capacity.maximum-am-resource-percent 参数,最大允许 AM 占用集群 总资源的比例。

[YARN-20004] OS 开启透明大页功能导致 MR 缓慢

【问题背景与现象】

Map/reduce 任务时间特别长,并且 top 命令发现 cpu 占用率的 sy 项特别高(红框值超过60%以上), OS 运行缓慢。



【原因分析】

1. OS 开启透明大页功能。

【解决办法】

1. 执行以下命令关闭透明大页功能:

```
vi /etc/rc.d/rc.local
echo "never" > /sys/kernel/mm/redhat_transparent_hugepage/enabled
echo "never" > /sys/kernel/mm/redhat_transparent_hugepage/defrag
echo "no" > /sys/kernel/mm/redhat_transparent_hugepage/khugepaged/defrag
```

【监控状态异常】

[YARN-30001] NodeManager 启动时出现 Concerning。

【问题背景与现象】

启动 Yarn 后,发现个别 NodeManager 出现 Concerning 状态。

【可能原因】

- 1. NodeManager 启动内存过小
- 2. NodeManager 依赖文件权限错误
- 3. NodeManager 读写磁盘错误

【原因分析】

1. 参看 NodeManager 的运行日志,出现 doesn't satisfy minimum allocations 错误,具体内容如下:

```
2016-03-03 16:53:35,102 | WARN | main | USER=mapred OPERATION=nmStartup TARGET=NodeManager RESULT=FAILURE DESCRIPTION=Exception occurred during startup | NMAuditLogger.java:288 2016-03-03 16:53:35,102 | FATAL | main | Error starting NodeManager | NodeManager.java:552 org.apache.hadoop.yarn.exceptions.YarnRuntimeException: org.apache.hadoop.yarn.exceptions.YarnRuntimeException: Recieved SHUTDOWN signal from Resourcemanager, Registration of NodeManager failed, Message from ResourceManager: NodeManager from xxx-xxx-1-182 doesn't satisfy minimum allocations, Sending SHUTDOWN signal to the NodeManager.
```

说明设置的 NodeManager 启动内存过小,小于 NodeManager 所需的最小内存解决方法参考 NODEMANAGER 内存过小

2. 检查

opt/huawei/Bigdata/FusionInsight-Hadoop-2.7.1/hadoop/bin/container-executor 权限, 发现被修改

```
otal 268
--Sr-s--. 1 root wheel 114035 Sep 30 00:28 container-executor
-rw----. 1 root root 2 Feb 27 16:34 drop_caches
-r-x---. 1 omm wheel 6524 Sep 30 00:28 hadoop
-r-x---. 1 omm wheel 8514 Sep 30 00:28 hadoop.cmd
-rwx----. 1 omm wheel 2375 Oct 16 03:19 hadoop-oam.sh
-r-x----. 1 omm wheel 12523 Sep 30 00:28 hdfs
-rwx----. 1 omm wheel 1133 Oct 16 03:19 hdfs-backup.sh
```

需要将权限修改正确,解决方法参考 NODEMANAGER 文件权限错误

3. 查看/etc/fatab 中是否包含该项目

```
# /etc/fstab
# Created by anaconda on Fri Apr 24 16:31:37 2015
# Accessible filesystems, by reference, are maintained under '/dev/disk'
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
/dev/mapper/vg_160138118-lv_root /
                                                      ext4 defaults, noatime, errors=panic
                                                                                                  1 1
JUID=53befa2b-f7ac-43be-b013-3a1fbca267d2 /boot
                                                               ext4 defaults, noatime, errors=panic
                                                                                                           1 2
/dev/mapper/vg_160138118-lv_home /home
/dev/mapper/vg_160138118-lv_swap swap
                                                     ext4 defaults, noatime, errors=panic
                                                      swap
                                                             defaults
                     /dev/shm
/dev/pts
                                             tmpfs defaults
tmpfs
                                             devpts gid=5, mode=620 0 0
devpts
                     /sys
/proc
                                             sysfs defaults 0 0
svsfs
                                                     defaults
                                                                     0 0
                         ext4 defaults, nosuid,
          /opt
                                                    atime,errors=panic
              /srv/BigData
/dev/sda1
```

解决方法参考 NODEMANAGER 磁盘挂载错误

【解决办法】

- 1. NodeManager 内存过小 修改 yarn.nodemanager.resource.memory-mb 参数,至少需要大于 yarn.scheduler.minimum-allocation-mb 这个参数
- 2. NodeManager 文件权限错误 chmod 050 container-executor chmod +s container-executor
- 3. NodeManager 磁盘挂载错误 确保停止该磁盘上所有文件的读写,然后删除红框中的项,执行 mount –a 命令重新挂载磁盘。

```
# /etc/fstab
# Created by anaconda on Fri Apr 24 16:31:37 2015
# Accessible filesystems, by reference, are maintained under '/dev/disk'
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
/dev/mapper/vg_160138118-lv_root /
UUID=53befa2b-f7ac-43be-b013-3a1fbca267d2 /boot
/dev/mapper/vg_160138118-lv_home /home
/dev/mapper/vg_160138118-lv_swap swap
                                                                    ext4 defaults, noatime, errors=panic
                                                                                                                   1 2
                                                          ext4 defaults, noatime, errors=panic
                                                                                                          1 2
                                                                                   0.0
                                                           swap
                                                                  defaults
                    /dev/shm
                                                tmpfs defaults
tmpfs
devpts
                        /dev/pts
                                                devpts gid=5,mode=620 0 0
                      /sys
/proc
                                               sysfs defaults 0 0
sysfs
                                                          defaults
           /opt ex
/srv/BigData
                           ext4 defaults, nosuid,
/dev/sdb1
                                                       oatime,errors=panic
/dev/sda1
                                     ext4
                                                         oatime
```

[Yarn-30002]在 OM 页面上添加 Yarn 的权限失败

【问题背景与现象】

在 OM 页面创建角色时,添加 Yarn 权限失败:



【原因分析】

1. 查看/var/log/Bigdata/controller/aos.log,发现 set role permission failed 报,具体内容如下:

```
2016-03-23 11:11:40,877 INFO [qtp1768471788-1309 - /rolexml/role/addrole] Finish expand config items, expand type is MODIFY. com.huawei.security.aos.pluginmanager.pluginutil.restclie dConfightems (RestClient.java:1425)
2016-03-23 11:11:40,877 ERROR [qtp1768471788-1309 - /rolexml/role/addrole] Failed to set acl permissions for queue com.huawei.sadop.om.security.aos.plugin.yarn.capacity.CaConfigurati recFermissions(CaConfigurationExecuter.java:141)
2016-03-23 11:11:40,877 INFO [qtp1768471788-1309 - /rolexml/role/addrole] finish set service Yarn resource permission. com.huawei.security.aos.permmanager.PermManager.setResourcePerm java:1080)
2016-03-23 11:11:40,877 ERROR [qtp1768471788-1309 - /rolexml/role/addrole] set service:Yarn resource permission failed. com.huawei.security.aos.rolemanager.ReleManager.setResourcePerm java:1080)
2016-03-23 11:11:40,877 ERROR [qtp1768471788-1309 - /rolexml/role/addrole] set role Yarn_test_permissions failed. com.huawei.security.aos.rolemanager.RoleManager.setRolePermissions(Rol 2016-03-23 11:11:140,878 ERROR [qtp1768471788-1309 - /rolexml/role/addrole] set role yarn_test_permission failed. com.huawei.security.aos.rolemanager.RoleManager.setRolePermissions(Rol 2016-03-23 11:11:140,878 ERROR [qtp1768471788-1309 - /rolexml/role/addrole] set role permission failed. com.huawei.security.aos.rolemanager.RoleManager.addRole(RoleManager.java:120)
2016-03-23 11:11:40,878 ERROR [qtp1768471788-1309 - /rolexml/role/addrole] set role permission failed. com.huawei.security.aos.rolemanager.RoleManager.addRole(RoleManager.java:120)
2016-03-23 11:11:40,878 ERROR [qtp1768471788-1309 - /rolexml/role/addrole] set role permission failed. com.huawei.security.aos.rolemanager.RoleManager.addRole(RoleManager.java:120)
2016-03-23 11:11:40,878 ERROR [qtp1768471788-1309 - /rolexml/role/addrole] set role permission failed. com.huawei.security.aos.rolemanager.RoleManager.addRole(RoleManager.java:120)
```

文件权限错误导致添加用户失败。

【解决办法】

在 RM 主备节点上使用

- 1. lsof /opt/huawei/Bigdata/etc/*_*_ResourceManager/capacity-scheduler.xml 查看是否有 其他进程打开这个文件
- 2. |sof /opt/huawei/Bigdata/etc/*_*_ResourceManager/.capacity-scheduler.xml.swp 查看 是否有其他进程打开这个文件
- 3. 如果有,关闭这个进程。

[Yarn-30003]通过后台命令动态刷新队列配置失败

【问题背景与现象】

在 OM 页面创建角色时,添加 Yarn 权限失败:

```
sdp@dkfzxsmisOapp57:~> source /datafs2/sdp/FusionInsight Client/bigdata_env
sdp@dkfzxsmisOapp57:~> kinit -k -t /datafs2/sdp/FusionInsight_Client/keytab/SDP_BATCH.keytab SDP_BATCH
sdp@dkfzxsmisOapp57:~> %Hmc_LlenT_NAME/HDFS/hadoop/bin/yarn_rmadmin -refreshQueues
NO GC_PROFILE is given. Defaults to medium.
Exception in thread "main" java.lang.filegalArgumentException: Can't get Kerberos realm
    at org.apache.hadoop.security.UserGroupInformation.initialize(UserGroupInformation.java:261)
    at org.apache.hadoop.security.UserGroupInformation.initialize(UserGroupInformation.java:246)
    at org.apache.hadoop.security.UserGroupInformation.loginUserFromSubject(UserGroupInformation.java:746)
    at org.apache.hadoop.security.UserGroupInformation.getLoginUser(UserGroupInformation.java:746)
    at org.apache.hadoop.security.UserGroupInformation.getLoginUser(UserGroupInformation.java:731)
    at org.apache.hadoop.security.UserGroupInformation.getLoginUser(UserGroupInformation.java:633)
    at org.apache.hadoop.security.UserGroupInformation.getCurrentUser(UserGroupInformation.java:633)
    at org.apache.hadoop.security.UserGroupInformation.getCurrentUser(UserGroupInformation.java:633)
    at org.apache.hadoop.infs.tools.GetConf.rum(GetConf.java:315)
    at org.apache.hadoop.infs.tools.GetConf.rum(GetConf.java:335)
    at org.apache.hadoop.infs.tools.GetConf.main(GetConf.java:332)

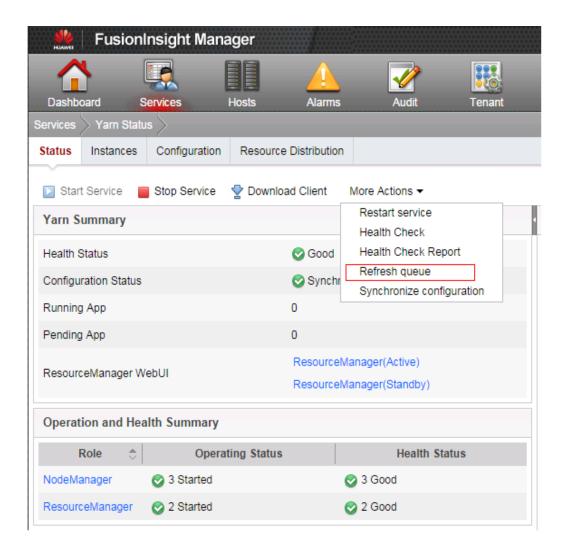
Caused by: java.lang.reflect.InvocationTargetException
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:606)
    at org.apache.hadoop.security.authentication.util.KerberosUtil.getDefaultRealm(KerberosName.java:63)
    ... 9 more

Caused by: KrbException: Cannot locate default realm
    at sun.security.krb5.Config.getDefaultRealm(Config.java:1183)
    ... 15 more

Caused by: KrbException: Generic error (description in e-text) (60) - Unable to locate Kerberos realm
```

【解决办法】

FusionInsight 提供了图形化刷新队列的方案,不支持后台命令行刷新,可以使用如下操作刷新队列配置。



【扩展介绍】

Yarn 默认资源调度器主要参数介绍

	.
yarn.scheduler.capacity. <queue-< th=""><th>队列的资源容量(百分比),所有队列的该</th></queue-<>	队列的资源容量(百分比),所有队列的该
path>.capacity	配置加起来不能超过 100
yarn.scheduler.capacity. <queue-< th=""><th>队列的资源使用上限(百分比)。由于存在</th></queue-<>	队列的资源使用上限(百分比)。由于存在
path>.maximum-capacity	资源共享,因此一个队列使用的资源量可能
	超过其容量,而最多使用资源量可通过该参
	数限制。
yarn.scheduler.capacity. <queue-< th=""><th>集群或者队列中同时处于等待和运行状态</th></queue-<>	集群或者队列中同时处于等待和运行状态
path>.maximum-applications	的应用程序数目上限,这是一个强限制,一
	旦集群中应用程序数目超过该上限,后续提
	交的应用程序将被拒绝,默认值为 10000
yarn.scheduler.capacity. <queue-< th=""><th>集群中用于运行应用程序</th></queue-<>	集群中用于运行应用程序
path>.maximum-am-resource-percent	ApplicationMaster 的资源比例上限,该参数
	通常用于限制处于活动状态的应用程序数
	目。该参数类型为浮点型,默认是 0.1,表

	示 10%。
yarn.scheduler.capacity. <queue-< th=""><th>每个用户最多可使用的资源量(百分比)</th></queue-<>	每个用户最多可使用的资源量(百分比)
path>.user-limit-factor	

[Yarn-30004]通过 FI Manager 管理页面动态刷新队列配置失败

【问题背景与现象】

FusionInsight Manager 管理页面刷新队列失败。

【原因分析】

RM 日志中打印 Illegal capacity 错误,红框处的值大于 1

```
umContainers=0 | CapacityScheduler.java:656
2016-03-26 10:56:22,546 | WARN | IPC Server handler 0 on 26005 | Exception refresh queues. | AdminService.java:710
java.io.IOException: Failed to re-init queues
                      at org.apache.hadoop.yarn.server.resourcemanager.scheduler.c
                                                                                                                                                                                                           ty.CapacityScheduler.reinitialize(CapacityScheduler.java:390)
                      at org.apache.hadoop.yarn.server.resourcemanager.AdminService.refreshQueues(AdminService.java:376)
                    at org.apache.hadoop.yarn.server.api.impl.pb.service.ResourceManagerAdministrationProtocolPBServiceImpl.refreshQueues(ResourceManagerAdministrationProtocolFBServiceImpl.refreshQueues(ResourceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFBServiceManagerAdministrationProtocolFB
                     at org.apache.hadoop.ipc.RPC$Server.call(RPC.java:973)
                     at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:2088)
                    at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:2084)
at java.security.AccessController.doPrivileged(Native Method)
                      at javax.security.auth.Subject.doAs(Subject.java:422)
                     at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1672)
at org.apache.hadoop.securicy.usersroup.nctmacton.udas(setsroupshiotmacton.java.10/2)
at org.apache.hadoop.ipc.ServersHandler.run(Server.java:2082)

Caused by: java.lang.IllegalArgumentException: Illegal capacity f 1.4000001 for children of queue root
at org.apache.hadoop.yarn.server.resourcemanager.scheduler.capacity.FarentQueue.setChildQueues(ParentQueue.java:145)
at org.apache.hadoop.yarn.server.resourcemanager.scheduler.capacity.CapacityScheduler.parseQueue(CapacityScheduler.java:646)
                    at org.apache.hadoop.yarn.server.resourcemanager.scheduler.capacity.CapacityScheduler.reinitializeQueues(CapacityScheduler.java: at org.apache.hadoop.yarn.server.resourcemanager.scheduler.capacity.CapacityScheduler.reinitialize(CapacityScheduler.java: 386)
2016-03-26 10:56:22,554 | WARN | IPC Server handler 0 on 26005 | USER=mapred IP=160.138.1.181
```

【解决办法】

所有的 yarn.scheduler.capacity.<queue-path>.capacity 配置项的值加起来不得超过 100。

【咨询】

[Yarn-40001]如何添加客户端参数

【解决办法】

方式一: 为客户端添加 mapred-site.xml 配置文件,在其中配置需要的属性,如下:

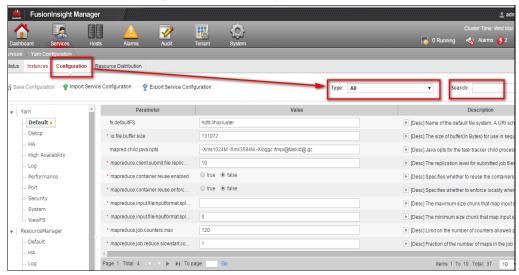
方式二: 在客户端代码中添加参数设置代码, 例如:

conf.set("mapreduce.app-submission.cross-platform", "true");

[Yarn-40002]如何添加服务端参数

【解决办法】

点击 Services->Yarn->Configuration,并选择 Type 为 ALL,如下:



在搜索框内搜索需要修改的参数并修改。