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1  org.apache.flink.runtime.JobException: Recovery is suppressed by
   FixedDelayRestartBackoffTimeStrategy (maxNumberRestartAttempts=3,
   backoffTimeMS=10000)
2      at
   org.apache.flink.runtime.executiongraph.failover.flip1.ExecutionFailureHan
   dler.handleFailure(ExecutionFailureHandler.java:110)
3      at
   org.apache.flink.runtime.executiongraph.failover.flip1.ExecutionFailureHan
   dler.getFailureHandlingResult(ExecutionFailureHandler.java:76)
4      at
   org.apache.flink.runtime.scheduler.DefaultScheduler.handleTaskFailure(Defa
   ultScheduler.java:192)
5      at
   org.apache.flink.runtime.scheduler.DefaultScheduler.maybeHandleTaskFailure
   (DefaultScheduler.java:186)
6      at
   org.apache.flink.runtime.scheduler.DefaultScheduler.updateTaskExecutionSta
   teInternal(DefaultScheduler.java:180)
7      at
   org.apache.flink.runtime.scheduler.SchedulerBase.updateTaskExecutionState(
   SchedulerBase.java:484)
8      at
   org.apache.flink.runtime.scheduler.UpdateSchedulerNgOnInternalFailuresList
   ener.notifyTaskFailure(UpdateSchedulerNgOnInternalFailuresListener.java:49
   )
9      at
   org.apache.flink.runtime.executiongraph.ExecutionGraph.notifySchedulerNgAb
   outInternalTaskFailure(ExecutionGraph.java:1703)
10     at
   org.apache.flink.runtime.executiongraph.Execution.processFail(Execution.ja
   va:1252)
11     at
   org.apache.flink.runtime.executiongraph.Execution.processFail(Execution.ja
   va:1220)
12     at
   org.apache.flink.runtime.executiongraph.Execution.fail(Execution.java:955)
13     at
   org.apache.flink.runtime.jobmaster.slotpool.SingleLogicalSlot.signalPayloa
   dRelease(SingleLogicalSlot.java:173)
14     at
   org.apache.flink.runtime.jobmaster.slotpool.SingleLogicalSlot.release(Sing
   leLogicalSlot.java:165)
15     at
   org.apache.flink.runtime.jobmaster.slotpool.SlotSharingManager$SingleTaskS
   lot.release(SlotSharingManager.java:732)
16     at
   org.apache.flink.runtime.jobmaster.slotpool.SlotSharingManager$MultiTaskSl
   ot.release(SlotSharingManager.java:537)
17     at
   org.apache.flink.runtime.jobmaster.slotpool.AllocatedSlot.releasePayload(A
   llocatedSlot.java:149)
18     at
   org.apache.flink.runtime.jobmaster.slotpool.SlotPoolImpl.tryFailingAllocat
   edSlot(SlotPoolImpl.java:730)
19     at
   org.apache.flink.runtime.jobmaster.slotpool.SlotPoolImpl.failAllocation(Sl
   otPoolImpl.java:710)
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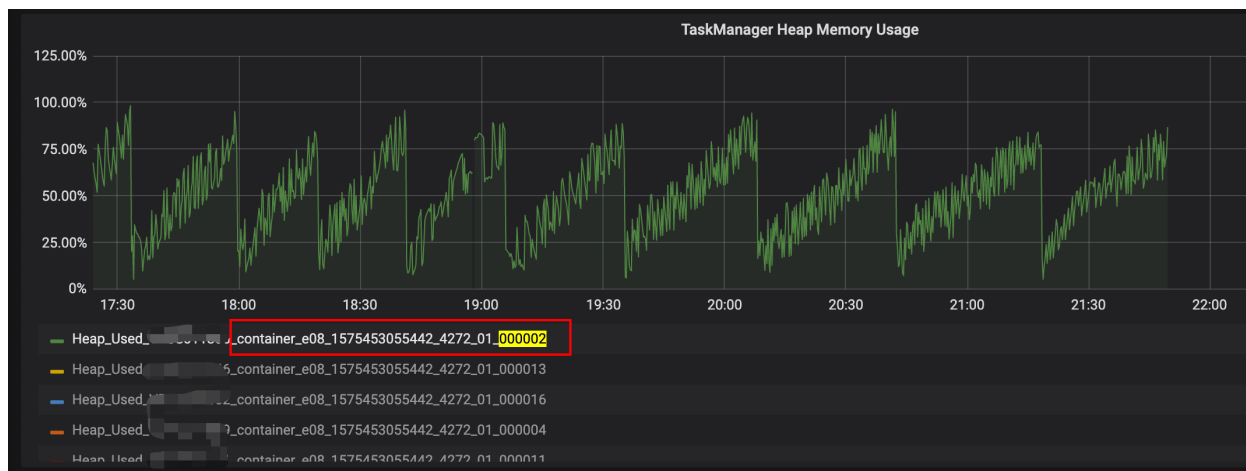
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20     at
org.apache.flink.runtime.jobmaster.JobMaster.internalFailAllocation(JobMas
ter.java:541)
21     at
org.apache.flink.runtime.jobmaster.JobMaster.notifyAllocationFailure(JobMa
ster.java:667)
22     at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
23     at
sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:
62)
24     at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorIm
pl.java:43)
25     at java.lang.reflect.Method.invoke(Method.java:498)
26     at
org.apache.flink.runtime.rpc.akka.AkkaRpcActor.handleRpcInvocation(AkkaRpc
Actor.java:274)
27     at
org.apache.flink.runtime.rpc.akka.AkkaRpcActor.handleRpcMessage(AkkaRpcAct
or.java:194)
28     at
org.apache.flink.runtime.rpc.akka.FencedAkkaRpcActor.handleRpcMessage(Fenc
edAkkaRpcActor.java:74)
29     at
org.apache.flink.runtime.rpc.akka.AkkaRpcActor.handleMessage(AkkaRpcActor.
java:152)
30     at akka.japi.pf.UnitCaseStatement.apply(CaseStatements.scala:26)
31     at akka.japi.pf.UnitCaseStatement.apply(CaseStatements.scala:21)
32     at scala.PartialFunction$class.applyOrElse(PartialFunction.scala:123)
33     at akka.japi.pf.UnitCaseStatement.applyOrElse(CaseStatements.scala:21)
34     at scala.PartialFunction$OrElse.applyOrElse(PartialFunction.scala:170)
35     at scala.PartialFunction$OrElse.applyOrElse(PartialFunction.scala:171)
36     at scala.PartialFunction$OrElse.applyOrElse(PartialFunction.scala:171)
37     at akka.actor.Actor$class.aroundReceive(Actor.scala:517)
38     at akka.actor.AbstractActor.aroundReceive(AbstractActor.scala:225)
39     at akka.actor.ActorCell.receiveMessage(ActorCell.scala:592)
40     at akka.actor.ActorCell.invoke(ActorCell.scala:561)
41     at akka.dispatch.Mailbox.processMailbox(Mailbox.scala:258)
42     at akka.dispatch.Mailbox.run(Mailbox.scala:225)
43     at akka.dispatch.Mailbox.exec(Mailbox.scala:235)
44     at akka.dispatch.forkjoin.ForkJoinTask.doExec(ForkJoinTask.java:260)
45     at
akka.dispatch.forkjoin.ForkJoinPool$WorkQueue.runTask(ForkJoinPool.java:13
39)
46     at
akka.dispatch.forkjoin.ForkJoinPool.runWorker(ForkJoinPool.java:1979)
47     at
akka.dispatch.forkjoin.ForkJoinWorkerThread.run(ForkJoinWorkerThread.java:
107)
48 Caused by: java.util.concurrent.TimeoutException: The heartbeat of
TaskManager with id container_e08_1575453055442_4272_01_000002 timed out.
49     at
org.apache.flink.runtime.resourcemanager.ResourceManager$TaskManagerHeartb
eatListener.notifyHeartbeatTimeout(ResourceManager.java:1125)
50     at
org.apache.flink.runtime.heartbeat.HeartbeatMonitorImpl.run(HeartbeatMonit
orImpl.java:109)
51     at
java.util.concurrent.Executors$RunnableAdapter.call(Executors.java:511)
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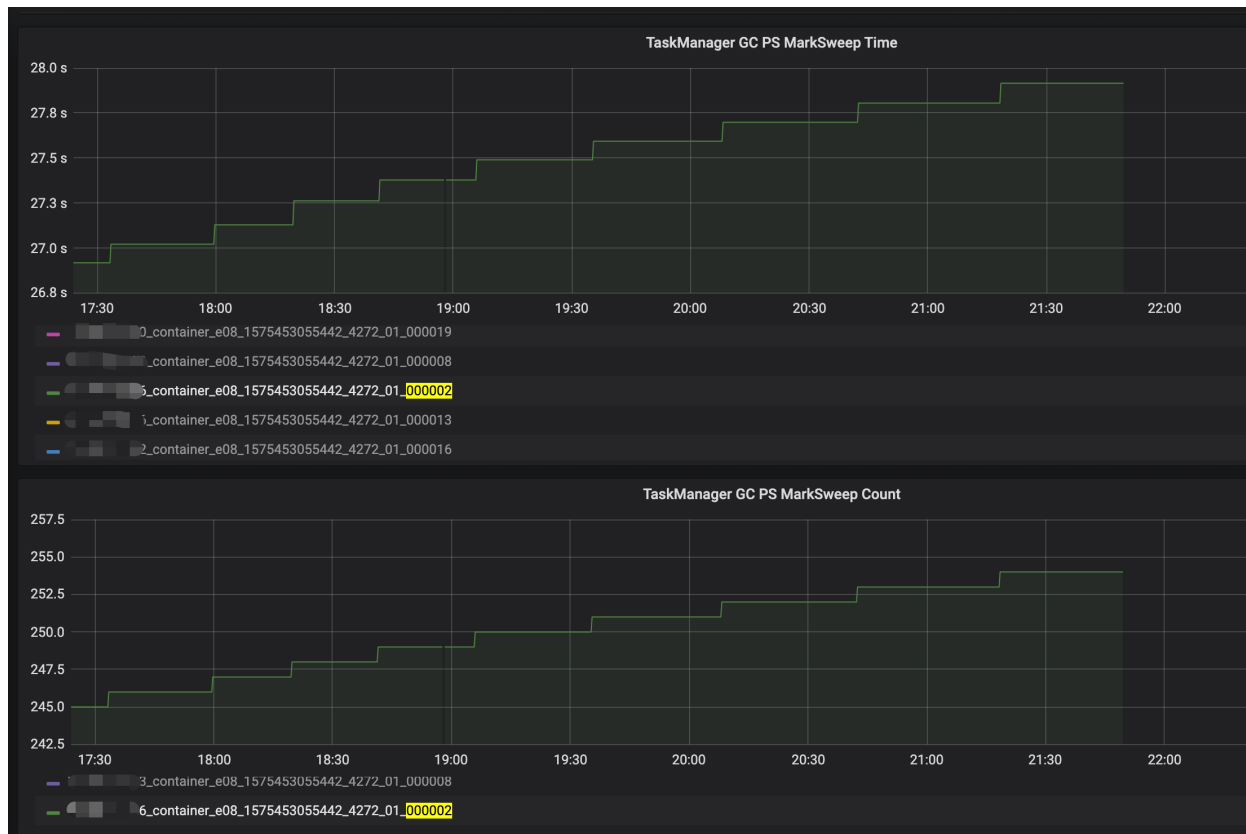
52     at java.util.concurrent.FutureTask.run(FutureTask.java:266)
53     at
org.apache.flink.runtime.rpc.akka.AkkaRpcActor.handleRunAsync(AkkaRpcActor
.java:397)
54     at
org.apache.flink.runtime.rpc.akka.AkkaRpcActor.handleRpcMessage(AkkaRpcAct
or.java:190)
55     ... 20 more

```

该 ContainerID (container_e08_1575453055442_4272_01_000002) 对应的 TaskManager 的堆内存监控指标：



TaskManager 的 GC 时间和次数：



从这三个指标可以观察到该 TaskManager 的运行状况，一般该问题也是由于 GC 或者 OOM 问题、TaskManager 所在的机器挂了导致的 TaskManager 与 JobManager 之间的心跳超时。

不过通常还是建议大家生产环境都给自己的集群和作业加上监控。