SchedulerX 常见问题及解决办法

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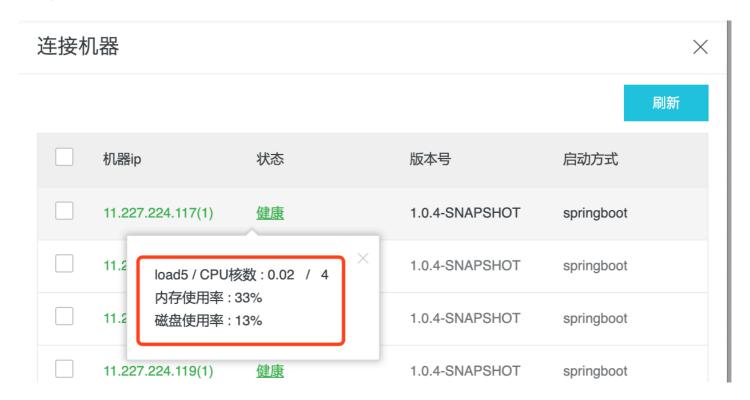
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机器繁忙

应用管理,连接机器,如果机器是红色的【繁忙】,说明机器繁忙了,可以点击繁忙/健康,看到当前机器的 水位。



如果机器繁忙了, 默认是无法触发任务的, 想要触发任务, 有如下解决方案:

- 1. 根据机器水位进行处理,比如磁盘超过 90%,就清理磁盘。如果 Load 或者 CPU 高,最好排查出是哪里比较耗 CPU,在业务层面解决,如果解决不了最好升级到高配的机器。
- 2. 如果只是测试,机器繁忙也想继续触发,可以在应用管理 -> 高级配置下,调整响应的阈值,或者关闭 【不触发繁忙机器】的开关,如下图



繁忙机器配置:





暂无可用的机器(no worker available)

首先排除不是机器繁忙造成的,那么就是接入失败了。登陆自己的机器,找到 SchedulerX 的日志,

- 1. 日志路径在 \${user.home}/logs/schedulerx/worker.log
 - 。 如果进程是通过 root 启动的,目录为 /root/logs/schedulerx/worker.log
 - 。 如果进程是通过 admin 账户启动的,目录为/home/admin/scheduelrx/worker.log
- 2. 如果日志报 groupId is not existed, 说明是配置问题, 在 worker.log 里搜索 Schedulerx WorkerConfig, 可以看到当前的配置, 然后和控制台确认下, 注意 namespace 要填 SchedulerX 控制台 -> 命令空间 -> 命名空间 Id。
- 3. 如果日志报了其他异常,基本是 Jar 包冲突引起的,可以看下 Jar 包冲突章节。

Jar 包冲突

可以在 worker.log 里搜一下 maven dependencies ,可以看到每个 Jar 的版本和路径,帮助快速定位和解决 Jar 包冲突

```
2019-06-11 10:29:23.702 [main] INFO com.alibaba.schedulerx.worker.SchedulerxWorker - Schedulerx Worker starting...
2019-06-11 10:29:23.705 [main] INFO com.alibaba.schedulerx.worker.SchedulerxWorker - netty:jar:file:/Users/armon/.mZ/repository/io/netty/netty/3.10.6.Final/netty-3.10.6.Final.jar!/org/jboss/netty/channel/socket/nio/
2019-06-11 10:29:23.708 [main] INFO com.alibaba.schedulerx.worker.SchedulerxWorker - protobuf-java:jar:file:/Users/armon/.m2/repository/com/google/protobuf/protobuf-java/2.6.1/protobuf-java/2.6.1.jar!/com/google/protobuf/
2019-06-11 10:29:23.712 [main] INFO com.alibaba.schedulerx.worker.SchedulerxWorker - javaassist:jar:file:/Users/armon/.m2/repository/com/google/protobuf/protobuf-java/2.6.1/protobuf-java/2.6.1/protobuf-java/2.6.1/protobuf-java/2.6.1.jar!/com/google/protobuf/protobuf/protobuf/2019-06-11 10:29:23.712 [main] INFO com.alibaba.schedulerx.worker.SchedulerxWorker - commons-configuration:jar:file:/Users/armon/.m2/repository/com/yorg/javassist/javassist/3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18.2-GA/javassist-3.18
```

请对照 SchedulerX 使用的 Jar 包,把自己低版本的排掉。

| Jar 包 | 版本 |
|-----------------------|--------------|
| guava | 20.0 |
| com.typesafe.config | 1.3 |
| protobuf-java | 2.6.1 |
| io.netty | 3.10.6.Final |
| javassist | 3.21.0-GA |
| hessian | 4.0.51 |
| commons-configuration | 1.10 |
| commons-validator | 1.4.0 |
| akka | 2.4.20 |
| scala | 2.11 |

下面放一些常见的 Jar 包冲突

1. protobuf冲突

```
2019-11-13 16:41:19.738 [011139045003_3231_98400-akka.actor.default-dispatcher-339] WARN com.alibaba.schedulerx.worker.SchedulerxWorker - heartbeat error java.lang.VerifyError: com/alibaba/schedulerx/protocol/Worker$WorkerHeartBeatRequest at com.alibaba.schedulerx.worker.SchedulerxWorker$2.run(SchedulerxWorker.java:S49) [schedulerx.worker-1.0.9-hotfix-v3.jar:?] at akka.actor.lightArrayRevolverSchedulers.SchedulersSchedulersSchedulersSchedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Schedulers.Sch
```

2. netty冲突

Uncaught error from thread [030011244063_1935_44810-akka.remote.default-remote-dispatcher-6]: org.jboss.netty.channel.socket.nio.NioWorker.<init> (Ljava/util/concurrent/Executor;Lorg/jboss/netty/util/ThreadNameDeterminer;)V, shutting down for ActorSystem[030011244063_1935_44810] java.lang.NoSuchMethodError: org.jboss.netty.channel.socket.nio.NioWorker.<init> (Ljava/util/concurrent/Executor;Lorg/jboss/netty/util/ThreadNameDeterminer;)V

3. netty或者protobuf冲突

```
2019-11-04 10:32:42:094 WARN com.alibaba.schedulerx.worker.SchedulerxWorker - active server=11.15.113.162:52014 lost.
java.util.concurrent.TimeoutException: Futures timed out after [5 seconds]
                         at scala.concurrent.impl.Promise$DefaultPromise.ready(Promise.scala:223)
                         at scala.concurrent.impl.Promise$DefaultPromise.result(Promise.scala:227)
                         at scala.concurrent.Await$$anonfun$result$1.apply(package.scala:190)
                        at akka. dispatch. \texttt{MonitorableThreadFactory\$AkkaForkJoinWorkerThread\$\$anon\$3.block(\texttt{ThreadPoolBuilder.scala:167}) \\
                         at scala.concurrent.forkjoin.ForkJoinPool.managedBlock(ForkJoinPool.java:3640)
                        at akka.dispatch.MonitorableThreadFactory$AkkaForkJoinWorkerThread.blockOn(ThreadPoolBuilder.scala:165)
                         at scala.concurrent.Await$.result(package.scala:190)
                         at scala.concurrent.Await.result(package.scala)
                         at com.alibaba.schedulerx.protocol.utils.FutureUtils.awaitResult(FutureUtils.java:39)
                         at com.alibaba.schedulerx.worker.SchedulerxWorker$2.run(SchedulerxWorker.java:560)
                         at akka.actor.LightArrayRevolverScheduler$$anon$2$$anon$1.run(LightArrayRevolverScheduler.scala:102)
                         at akka.dispatch.TaskInvocation.run(AbstractDispatcher.scala:39)
                         at akka.dispatch.ForkJoinExecutorConfigurator$AkkaForkJoinTask.exec(AbstractDispatcher.scala:415)
                         at scala.concurrent.forkjoin.ForkJoinTask.doExec(ForkJoinTask.java:260)
                         at scala.concurrent.forkjoin.ForkJoinPool$WorkQueue.runTask(ForkJoinPool.java:1339)
                         at scala.concurrent.forkjoin.ForkJoinPool.runWorker(ForkJoinPool.java:1979)
  at scala.concurrent.forkjoin.ForkJoinWorkerThread.run(ForkJoinWorkerT

019-11-06 10:15:47:113 ERROR com.alibaba.schedulerx.worker.SchedulerxWorker - Schedulerx Worker error

ava.util.concurrent.impl.PromisesDefaultPromise.ready(Promise.scala:223)

at scala.concurrent.impl.PromisesDefaultPromise.ready(Promise.scala:227)

at scala.concurrent.impl.PromisesDefaultPromise.result(Promise.scala:227)

at scala.concurrent.BlockContextSpofaultBlockContext$.blockOn(BlockContext.scala:53)

at scala.concurrent.Await$.result(package.scala:190)

at akka.remote.Remotalcontrent.FlockContextSpofaultBlockContext$.blockOn(BlockContext.scala:53)

at scala.concurrent.Await$.result(package.scala:190)

at akka.remote.Remotalcontrefefrovider.init(RemoteActorRefProvider.scala:212)

at akka.remote.RemoteActorRefProvider.init(RemoteActorRefProvider.scala:212)

at akka.actor.ActorSystemImpl.iftedTree2$!(ActorSystem.scala:828)

at akka.actor.ActorSystemImpl.start(ActorSystem.scala:825)

at akka.actor.ActorSystemImpl.start(ActorSystem.scala:825)

at akka.actor.ActorSystemImpl.start(ActorSystem.scala:245)

at akka.actor.ActorSystemS.apply(ActorSystem.scala:280)

at akka.actor.ActorSystemS.apply(ActorSystem.scala:283)

at akka.actor.ActorSystemS.apply(ActorSystem.scala:283)

at akka.actor.ActorSystemS.apply(ActorSystem.scala:283)

at akka.actor.ActorSystemS.create(ActorSystem.scala:283)

at akka.actor.ActorSystemS.create(ActorSystem.scala:263)

at akka.actor.ActorSystemS.create(ActorSystem.scala:263)

at com.alibaba.schedulerx.worker.SchedulerxWorker.restartActorSystem(SchedulerxWorker.java:559)

at com.alibaba.schedulerx.worker.SchedulerxWorker.afterPropertiesSet(SchedulerxWorker.java:559)

at om.alibaba.schedulerx.worker.SchedulerxWorker.afterPropertiesSet(SchedulerxWorker.java:559)

at om.alibaba.schedulerx.worker.SchedulerxWorker.afterPropertiesSet(SchedulerxWorker.java:559)

at om.alibaba.schedulerx.worker.SchedulerxWorker.afterPropertiesSet(SchedulerxWorker.java:559)

at om.alibaba.schedulerx.worker.SchedulerxWorker.afterPropertiesSet(Sc
                          at scala.concurrent.forkjoin.ForkJoinWorkerThread.run(ForkJoinWorkerThread.java:107)
               at com.alibaba.schedulerx.worker.SchedulerxWorker.init(SchedulerxWorker.java:157)

t com.alibaba.schedulerx.worker.SchedulerxWorker.afterPropertiesSet(SchedulerxWorker.java:569)

at org.springframework.beans.factory.support.AbstractAutowireCapableBeanFactory.invokeInitMethods(AbstractAutowireCapableBeanFactory.java:1624)

at org.springframework.beans.factory.support.AbstractAutowireCapableBeanFactory.doCreateBean(AbstractAutowireCapableBeanFactory.java:1624)

at org.springframework.beans.factory.support.AbstractAutowireCapableBeanFactory.doCreateBean(AbstractAutowireCapableBeanFactory.java:1554)

at org.springframework.beans.factory.support.AbstractAutowireCapableBeanFactory.createBean(AbstractAutowireCapableBeanFactory.java:305)

at org.springframework.beans.factory.support.AbstractBeanFactory.gotgben(AbstractBeanFactory.java:306)

at org.springframework.beans.factory.support.DefaultSingletonBeanRegistry.getSingleton(DefaultSingletonBeanRegistry.java:230)

at org.springframework.beans.factory.support.AbstractBeanFactory.getBean(AbstractBeanFactory.java:302)

at org.springframework.beans.factory.support.DefaultListableBeanFactory.preInstantiateSingletons(DefaultListableBeanFactory.java:761)

at org.springframework.beans.factory.support.DefaultListableBeanFactory.preInstantiateSingletons(DefaultListableBeanFactory.java:761)

at org.springframework.context.support.AbstractApplicationContext.finishBeanFactoryJintialization(AbstractApplicationContext.java:867)

at org.springframework.context.support.AbstractApplicationContext.finishBeanFactoryJintializationContext.java:543)

at org.springframework.boot.SpringApplication.ruf(SpringApplication.java:693)

at org.springframework.boot.SpringApplication.ruf(SpringApplication.java:369)

at org.springframework.boot.SpringApplication.ruf(SpringApplication.java:1107)

at cn.mc.PushApplication.main(PushApplication.pushEpplication.java:1107)

at cn.mc.PushApplication.main(PushApplication.java:498)

at java.lang.reflect.Nethod.invoke(Method.java:498)

at java.lang.reflect.Netho
```

Spring 应用找不到 Bean

- 1. 应用管理链接机器看启动方式,确保是 Spring 或者 SpringBoot。
- 2. JobProcessor 要注入为 bean, 比如加 @Component 注解。
- 3. 排查 pom 依赖如果依赖 spring-boot-devtools 请排除掉。
- 4. JobProcessor 和 process 方法不要加事务注解。

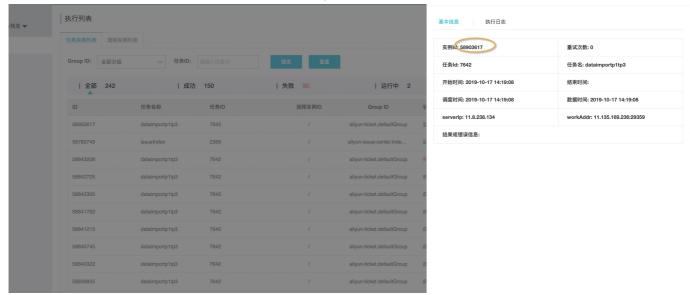
tablestore protobuf-2.4.1 和 SchedulerX 不兼容

https://help.aliyun.com/knowledge_detail/58568.html

任务运行中卡住

schedulerx-worker 执行每个 processor 的时候会把任务实例 Id 放到线程名中,方便查看线程栈。这里以分布式任务某个子任务卡住为例,单机执行/广播执行类似。

1. 首先控制台执行列表查看卡住的任务实例的详情,获取实例id



2. 登入卡住的机器, 查看线程栈, 执行 [jstack [pid] | grep [实例id] -A 20 , 如下图所示, 发现是业务自己卡住了。

```
Schedulerx-Container-Thread-3803617-0 #4093 prio=5 os_prio=0 tid=0x00002ad3edcb4800 mid=0x172f7 waiting on condition [0x00002ad443101000]

Schedulerx-Container-Thread-3803617-0 #4093 prio=5 os_prio=0 tid=0x00002ad3edcb4800 mid=0x172f7 waiting on condition [0x00002ad443101000]

java.lang.thread.state: WATING (prking)
at sun.misc.Umsde.park(Native Method)

- parking to wait for <a href="https://docs.park/lock.bupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSupport.park/lockSup
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