

ColdFusion Instance Issue

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I'm running into a weird issue this morning at work. We have two servers behind a load balancer, and on those servers we have two ColdFusion instances clustered together (one on each, call them Thing1 and Thing2) both the hardware load balancer and the CF cluster are setup to round robin the requests. Every 20 minutes or so all you can get from one of the sites is 503 error pages. When looking into it, you can get to the ColdFusion Admin for the main instance on each server, and to Thing1's admin, but not to Thing2's CF Admin (throws 503s as well). From Thing2's main instance admin, you can go in and stop the instance, and immediately the 503 errors disappear. However, after about 5 second, Thing2 starts itself up again automatically, and 20 minutes or so later, things grind to a halt again.

I'm checking into the ColdFusion and JRUN logs now to see if I can find anything as to why this might be happening, and will update as I go. Click "More" to read about my ongoing battle.

Update 1: Having problems finding the log files... found them in JRun4\logs finally:

```
02/05 09:59:28 Information [jrpp-2] - Application Started
02/05 10:02:42 user FileServlet: init
java.lang.RuntimeException: Request timed out waiting for an available thread to run. You may want to consider increasing the number of
active threads in the thread pool.
    at jrunx.scheduler.ThreadPool$Throttle.enter(ThreadPool.java:123)
    at jrunx.scheduler.ThreadPool$ThreadThrottle.invokeRunnable(ThreadPool.java:425)
    at jrunx.scheduler.WorkerThread.run(WorkerThread.java:66)
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02/05 10:16:34 error
[1]java.lang.InterruptedExpection
    at java.lang.Object.wait(Native Method)
    at java.lang.Object.wait(Object.java:443)
    at edu.emory.mathcs.backport.java.util.concurrent.TimeUnit.timedWait(TimeUnit.java:301)
    at edu.emory.mathcs.backport.java.util.concurrent.helpers.WaitQueue$WaitNode.doTimedWait(WaitQueue.java:79)
    at edu.emory.mathcs.backport.java.util.concurrent.Semaphore$FairSync.attempt(Semaphore.java:346)
    at edu.emory.mathcs.backport.java.util.concurrent.Semaphore.tryAcquire(Semaphore.java:571)
    at coldfusion.CfmServlet.lock(CfmServlet.java:255)
    at coldfusion.CfmServlet.service(CfmServlet.java:174)
    at coldfusion.bootstrap.BootstrapServlet.service(BootstrapServlet.java:89)
```

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at jrun.servlet.FilterChain.doFilter(FilterChain.java:86)
at coldfusion.monitor.event.MonitoringServletFilter.doFilter(MonitoringServletFilter.java:42)
at coldfusion.bootstrap.BootstrapFilter.doFilter(BootstrapFilter.java:46)
at jrun.servlet.FilterChain.doFilter(FilterChain.java:94)
at jrun.servlet.FilterChain.service(FilterChain.java:101)
at jrun.servlet.ServletInvoker.invoke(ServletInvoker.java:106)
at jrun.servlet.JRunInvokerChain.invokeNext(JRunInvokerChain.java:42)
at jrun.servlet.JRunRequestDispatcher.invoke(JRunRequestDispatcher.java:284)
at jrun.servlet.ServletEngineService.dispatch(ServletEngineService.java:543)
at jrun.servlet.jrpp.JRunProxyService.invokeRunnable(JRunProxyService.java:203)
at jrunx.scheduler.ThreadPool$ThreadThrottle.invokeRunnable(ThreadPool.java:428)
at jrunx.scheduler.WorkerThread.run(WorkerThread.java:66)

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[0]javax.servlet.ServletException

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Seems like number of threads might be the problem.

Update 2: Still trying to get a stack trace... the ColdFusion service isn't running under the local account name, so the instructions at http://kb.adobe.com/selfservice/viewContent.do?externalId=tn_18339&sliceId=1 aren't helping. Trying to get **StackTrace** on there now, as the applet thing wont load.

Update 3: Well, no luck there... StackTrace ended up dumping a bunch of stacks that weren't ColdFusion. I'm not certain what is going on there. Still no explanation for why the service restarts itself after being stopped.

Update 4: Found that other cluster instances restart after stop too... is that normal? I can't find documentation noting that behavior.

Update 5: Tried upping the activeHandlingThreads to 100 to buy myself some time (8 CPUs), but its turned out not to help much. I only got 30 seconds worth of data out of the server monitor before it locked up again.

Update 6: More false hopes. I changed some of the major queries in the app to use cachedWithin, and after that the server stayed up for about 6 minutes (twice what I was getting before), but now its back to 3 minutes or less.

Update 7: Used the CF API to try to make sure that I've killed off server monitoring on that box:

```

<cfscript>
// login to the Admin API
admin=createobject("component","CFIDE.adminapi.administrator");

// provide your admin password
admin.login("the_password");

// create the server monitoring
instancesmon = createobject("component","CFIDE.adminapi.servermonitoring");

instancesmon.stopMonitoring();
</cfscript>

```

And shortly there after the server tanked again.

Update 8: Ok, so Thing2 is still flipping out. If this was really a bottleneck issue, or a traffic issue, shouldn't Thing1 be taken down as well? I takes up the slack as soon as Thing2 is told to stop, and I confirmed that its been up and running since the main CF instance was started about 3 days ago.