

ColdFusion Intermittently Cannot Find CFC

Posted At : March 3, 2009 1:21 PM | Posted By : Jon Hartmann

Related Categories: ColdFusion, Mystery Error Message



Ok, so a new one on me... ColdFusion has started to intermittently fail to find a CFC when trying to instantiate it. I started getting emails that the system was erroring out because it failed to find a component for part of a process in our system, but when I went back to try it myself, things worked fine. I dismissed it as odd until it started to happen more often. Click "more" to see how I replicated the problem and help me figure out what is going on.

I'm using ColdFusion 8.01 on a non-clustered environment. In the example, "myapp" is a mapping to application's root.

The Setup

Ok, so basically the system gets a "grading engine" to do some calculations based on given inputs. Not that complex. Each time one of these inputs is submitted the system grabs the engine and causes the system to recalculate information based on what was entered. Pretty standard stuff there. Now all of a sudden the system sometimes can't find what it needs. I set up the following test and run it a half dozen times without issue:

```
<cfset count = 0 />
<cfset errors = ArrayNew(1) />

<cfloop from="1" to="2000" index="x">
    <cftry>
        <cfset objGradeEngine = CreateObject("component", "myapp.cfc.util.gradingEngine.district7Engine") />
        <cfcatch>
            <cfset count = count + 1 />
            <cfset ArrayAppend(errors, cfcatch)>
        </cfcatch>
    </cftry>
</cfloop>

Count: <cfdump var="#count#"><br />
Iterations:<cfdump var="#x#">

<cfif ArrayLen(errors) gt 0>
    <cfdump var="#errors[1]#" >
</cfif>
```

The Problem

And then it hits:

Count: 231
Iterations: 2001

struct	
Detail	Ensure that the name is correct and that the component or interface exists.
Message	Could not find the ColdFusion Component or Interface <code>myapp.cfc.util.gradingEngine.district7Engine</code> .
StackTrace	<pre>coldfusion.runtime.CFJspPage\$NoSuchTemplateException: Could not find the ColdFusion Component or I at coldfusion.cfc.util.gradingEngine.district7Engine. at coldfusion.runtime.TemplateProxyFactory.getResolv at coldfusion.runtime.TemplateProxyFactory.getTemplateFileHelper(TemplateProxyFactory.java:1346) at at coldfusion.runtime.TemplateProxyFactory.resolveName(TemplateProxyFactory.java:1289) at at coldfusion.cfc.ComponentProxyFactory.getProxy(ComponentProxyFactory.java:38) at at coldfusion.runtime.ProxyFactory.getProxy(ProxyFactory.java:65) at coldfusion.runtime.CFPage.createOl at coldfusion.runtime.CFPage.CreateObject(CFPage.java:4552) at cftest2ecfm2094951711.runPage(D:\V at coldfusion.runtime.CFJspPage.invoke(CFJspPage.java:196) at coldfusion.tagext.lang.IncludeTag.doStart1 at coldfusion.tagext.lang.IncludeTag.doStart1 at coldfusion.tagext.lang.IncludeTag.doStart1</pre>

Suddenly I do actually have a problem. Despite creating like 6 to 8 thousand copies fine during the first times I ran the test, suddenly 231 of 2001 tries failed to find the component. That means that ColdFusion could find the component the other 1,770 times.

And before you ask, I did try the following:

```
<cfset count = 0 />
<cfset errors = ArrayNew(1) />

<cfloop from="1" to="2000" index="x">
    <cftry>
        <cflock name="getEngine" timeout="2">
            <cfset objGradeEngine = CreateObject("component", "myapp.cfc.util.gradingEngine.district7Engine") />
        </cflock>
        <cfcatch>
            <cfset count = count + 1 />
            <cfset ArrayAppend(errors, cfcatch)>
        </cfcatch>
    </cftry>
</cfloop>

Count: <cfdump var="#count#"><br />
Iterations:<cfdump var="#x#">

<cfif ArrayLen(errors) gt 0>
    <cfdump var="#errors[1]#" >
</cfif>
```

And the <cflock> didn't make a difference: lots of tries with nothing, then one with a couple hundred fails. My next thought is that I'm exceeding resources somehow, so I jumped into CF Admin and currently things are set like this:

Request Limits**Maximum number of simultaneous Template requests**

The number of CFML page requests that can be processed concurrently. Use this :

Maximum number of simultaneous Flash Remoting requests

The number of Flash Remoting requests that can be processed concurrently.

Maximum number of simultaneous Web Service requests

The number of Web Service requests that can be processed concurrently.

Maximum number of simultaneous CFC function requests

The number of ColdFusion Component methods that can be processed concurrentl

JRun Master Request Limits (restart required)**Maximum number of running JRun threads** Maximum number of JRun handler threads that will run concurrently. This is the nu
JSP pages. Generally this value should be greater than the sum (currently 30) of th**Maximum number of queued JRun Threads**

Maximum number of requests that JRun can accept at any one time. This is the nu

Tag Limit Settings**Maximum number of simultaneous Report threads**

The maximum number of ColdFusion reports that can be processed concurrently.

Maximum number of threads available for CFTHREAD

The maximum number of threads created by CFTHREAD that will be run concurren

Queue Timeout Settings**Timeout requests waiting in queue after** **seconds**

If a request has waited in the queue for this long, timeout the request. This value st

Problem is that I really don't have an idea how these would interact with the system and the rate of errors.

Any ideas?

Updates

Update: Not sure if it matters, but I'll point out that my CFC "District7Engine" extends "DefaultEngine", so there is an additional layer of dependence there. I copied the files to my local test machine and have thus far been unable to cause this error on my local host despite spamming and even holding the refresh to try to gum up the number of requests.

I wonder... is it possible something on the server is actually locking CF out of reading the file on some kind of interval? Would CF return that it couldn't find the file if the file was being used by another application?

Update 2 Updated my test to look like this:

```
<cfset count = 0 />
<cfset errors = ArrayNew(1) />
<cfset times = ArrayNew(1) />

<cfloop from="1" to="2000" index="x">
    <cftry>
        <cflock name="getEngine" timeout="2">
            <cfset objGradeEngine = CreateObject("component",
"livegrades.cfc.util.gradingEngine.district7Engine") />
```

```

        </cflock>
        <cfcatch>
            <cfset count = count + 1 />
            <cfset ArrayAppend(errors, cfcatch)>
            <cfset ArrayAppend(times, now())>
        </cfcatch>
    </cftry>
</cfloop>

Count: <cfdump var="#count#"><br />
Iterations:<cfdump var="#x#">

<cfif ArrayLen(errors) gt 0>
    <cfdump var="#errors[1]#" >
</cfif>
<cfif ArrayLen(times) gt 0>
    <cfdump var="#times[1]#" ><br />
    <cfdump var="#times[ArrayLen(times)]#" >
</cfif>

```

And got the following:

Count: 328

Iterations: 2001

struct																			
Detail	Ensure that the name is correct and that t																		
Message	Could not find the ColdFusion Component																		
StackTrace	coldfusion.runtime.CfJspPage.\$NoSuchTe coldfusion.runtime.TemplateProxyFactory coldfusion.runtime.ProxyFactory.getProxy coldfusion.runtime.CfJspPage.invoke(CfJs coldfusion.filter.RequestMonitorFilter.invo coldfusion.filter.ClientScopePersistenceF coldfusion.filter.DataSourceFilter.invoke(I coldfusion.monitor.event.MonitoringServle jrun.servlet.ServletInvoker.invoke(Servle jrun.servlet.jrpp.JRunProxyService.invoke																		
TagContext	<table> <tr> <th colspan="2">array</th></tr> <tr> <td>1</td><td> <table> <tr> <th colspan="2">struct</th></tr> <tr> <td>COLUMN</td><td>0</td></tr> <tr> <td>ID</td><td>CF_CFPAGE</td></tr> <tr> <td>LINE</td><td>8</td></tr> <tr> <td>RAW_TRACE</td><td>at cftest2ecfm20949</td></tr> <tr> <td>TEMPLATE</td><td>D:\Websites\i...</td></tr> <tr> <td>TYPE</td><td>CFML</td></tr> </table> </td></tr> </table>	array		1	<table> <tr> <th colspan="2">struct</th></tr> <tr> <td>COLUMN</td><td>0</td></tr> <tr> <td>ID</td><td>CF_CFPAGE</td></tr> <tr> <td>LINE</td><td>8</td></tr> <tr> <td>RAW_TRACE</td><td>at cftest2ecfm20949</td></tr> <tr> <td>TEMPLATE</td><td>D:\Websites\i...</td></tr> <tr> <td>TYPE</td><td>CFML</td></tr> </table>	struct		COLUMN	0	ID	CF_CFPAGE	LINE	8	RAW_TRACE	at cftest2ecfm20949	TEMPLATE	D:\Websites\i...	TYPE	CFML
array																			
1	<table> <tr> <th colspan="2">struct</th></tr> <tr> <td>COLUMN</td><td>0</td></tr> <tr> <td>ID</td><td>CF_CFPAGE</td></tr> <tr> <td>LINE</td><td>8</td></tr> <tr> <td>RAW_TRACE</td><td>at cftest2ecfm20949</td></tr> <tr> <td>TEMPLATE</td><td>D:\Websites\i...</td></tr> <tr> <td>TYPE</td><td>CFML</td></tr> </table>	struct		COLUMN	0	ID	CF_CFPAGE	LINE	8	RAW_TRACE	at cftest2ecfm20949	TEMPLATE	D:\Websites\i...	TYPE	CFML				
struct																			
COLUMN	0																		
ID	CF_CFPAGE																		
LINE	8																		
RAW_TRACE	at cftest2ecfm20949																		
TEMPLATE	D:\Websites\i...																		
TYPE	CFML																		
Type	Application																		
missingFileName	...cfc.util.gradingEngine.district7																		

{ts '2009-03-03 14:06:52'}

{ts '2009-03-03 14:06:57'}

Basically shows that the errors all happened withing a 5 second spread. Thats a long time, practically the life span of the request. I'll try to also find out which iterations failed, so I can see if they are contiguous or random within the test.

Update 3 At Joshua Cyr's suggestion, I've updated my test suite to look like this:

```
Start: <cfdump var="#now()#"><br />
<cfset count = 0 />
<cfset filenotfound = 0 />
<cfset errors = ArrayNew(1) />
<cfset times = ArrayNew(1) />

<cfloop from="1" to="2000" index="x">
    <cftry>
        <cflock name="getEngine" timeout="2">
            <cfset objGradeEngine = CreateObject("component",
"myapp.cfc.util.gradingEngine.district7Engine") />
        </cflock>
        <cfcatch>
            <cfset count = count + 1 />
            <cfset ArrayAppend(errors, cfcatch)>
            <cfset ArrayAppend(times, now())>
        </cfcatch>
    </cftry>
    <cfif NOT FileExists("d:\websites\ myapp\cfc\util\gradingEngine\district7Engine.cfc")>
        <cfset filenotfound = filenotfound + 1 />
    </cfif>
</cfloop>

File not Found: <cfdump var="#filenotfound#"><br />
CreateObject error Count: <cfdump var="#count#"><br />
Iterations:<cfdump var="#x#"><br />

<cfif ArrayLen(errors) gt 0>
    <cfdump var="#errors[1]#" >
</cfif>
<cfif ArrayLen(times) gt 0>
    First: <cfdump var="#times[1]#" ><br />
    Last: <cfdump var="#times[ArrayLen(times)]#" ><br />
</cfif>
End: <cfdump var="#now()#">
```

I hope that this will help me catch if its that something is keeping CF from accessing the file or something else. My problem is that thus far I've gotten only one error, and that was a lock error after flooding the system with requests. I'm thinking that this is tied to usage and or other interactions that aren't occurring right now. I'll have to try again in the morning.