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Magento "Front controller reached 100 router match iterations" error

asked   5 years ago

viewed   25611 times

active   1 month ago

23   My site is going down once or twice a day when it starts throwing the exception "Front controller reached 100 router match iterations". Once this happens access to the admin and frontend is gone. I am just left with an error page.

This started after upgrading from Magento 1.5.0.1 to 1.5.1.0. If I manually clear the var/cache/ directory I am up and running again.

8   I have googled the heck out of this one. In the limited search results I have found nothing has helped me with resolving this.

Any insight into why this may be happening and how it could be resolved would be appreciated.

Linked

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Magento Backend error "Front controller reached 100 router match iterations"

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Magento error "Front controller reached 100 router match iterations"

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--update----------------------

Using the debugging code provided in the helpful answer from, Andrey Tserkus, I was able to determine that the error is caused by some of my routers disappearing.

The normal routers output by the debug code are: Total 7: admin, standard, cms, amshopby, fishpig_wordpress, seosuite, default

When the error occurs they have changed to: Total 3: admin, standard, default

When this happens it seems the missing routes causes the code to iterate to 100 for every page request. I will investigate this condition further.

exception   magento

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edited Jul 9 '11 at 5:15

asked Jun 7 '11 at 7:50

Christian
653   2   9   15

Isn't there anything in the logs (magento's and the server's one)? Just to have an idea where to look to. – OSdave Jun 7 '11 at 8:54

Have you tried Backup Database, then repair and optimize tables? Also what caching are you using in your local.xml? I'm assuming the file system? – B00MER Jun 7 '11 at 16:28

Just to give you some more insight - /Mage/Core/Controller/Varien/Front.php has the Exception error. – B00MER Jun 7 '11 at 16:29

OSdave -- Here is the error. a:5:{i:0;s:52:"Front controller reached 100 router match iterations";i:1;s:473:"#0 app/code/core/Mage/Core/Controller/Varien/Front.php(183): Mage::throwException('Front controlle...') #1 /app/code/core/Mage/Core/Model/App.php(340): Mage_Core_Controller_Varien_Front->dispatch() #2 /app/Mage.php(627): Mage_Core_Model_App->run(Array) #3 /httpdocs/index.php(84): Mage::run('', 'store') #4 {main}";s:3:"url";s:192:"/catalog/product_compare/add/produc|t/12609/... – Christian Jun 7 '11 at 19:03   .

1   BOOMER -- I am using apc -- <cache> <backend>apc</backend> </cache> – Christian Jun 7 '11 at 19:15

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10 Answers

active   oldest   votes

The error message is too general to try to solve this problem. I suggest you to hire some freelancer Magento web-developer to look to the source of the problem on your actual site. It cannot be solved theoretically.

10

As seen from the message, the problem occurs because your routers are making circular references for dispatching requests. One of them matches request, but doesn't dispatch and pushes it to redispatch again. Or no router matches request at all.

You can get more information by going to Magento Core file app/code/core/Mage/Core/Controller/Varien/Front.php, find there lines

```php
while (!$request->isDispatched() && $i++<100) {
    foreach ($this->_routers as $router) {
        if ($router->match($this->getRequest())) {
            break;
        }
    }
}
```

and replace them with

```php
Mage::log('----Matching routers------------------------------');
Mage::log('Total ' . count($this->_routers) . ': ' . implode(', ', array_keys($thi
while (!$request->isDispatched() && $i++<100) {
    Mage::log('- Iteration ' . $i);
    $requestData = array(
        'path_info' => $request->getPathInfo(),
        'module' => $request->getModuleName(),
        'action' => $request->getActionName(),
        'controller' => $request->getControllerName(),
        'controller_module' => $request->getControllerModule(),
        'route' => $request->getRouteName()
    );

    $st = '';
    foreach ($requestData as $key => $val) {
        $st .= "[{$key}={$val}]";
    }
    Mage::log('Request: ' . $st);
    foreach ($this->_routers as $name => $router) {
        if ($router->match($this->getRequest())) {
            Mage::log('Matched by "' . $name . '" router, class ' . get_class($rou
```

```
                    break;
                }
            }
        }
    }
```

After that wait for site to produce the error, open var/log/system.log and see there debugging information about what is going on inside your system. It will help to see much more better, what router breaks the system.

share improve this answer

answered Jul 6 '11 at 12:53

Andrey Tserkus
2,954   8   16

Thank you for the practical suggestion. I will implement this and report back my findings. – Christian Jul 7 '11 at 7:10

Thanks also that's very helpful. I have a question, I noticed that after it captured some requests, i noticed that there are requests that have empty [module=] Is this normal? – rclai89 Aug 13 '14 at 23:34

Thanks, helped me a lot :) – magic_al Mar 11 '15 at 12:12

May I suggest an edit to encourage the OP to revert the core file to the original once the issue is solved? Core files shouldn't remain edited... – tjons Feb 29 at 14:57

add a comment

8

UPDATE 2: I have some further changes which should help prevent a different cause of the 100 router match iterations

https://github.com/convenient/magento-ce-ee-config-corruption-bug#update-2-further-improvements

===

UPDATE: MAGENTO HAVE USED MY ANSWER AS A PATCH

https://github.com/convenient/magento-ce-ee-config-corruption-bug#update-good-news-a-patch-from-magento

==

I've recently spent quite some time looking into this bug. I've written up my full findings, explanation and replication here.

https://github.com/convenient/magento-ce-ee-config-corruption-bug

However, for the short answer. This appears to be a Magento bug which can be corrected by overriding `Mage_Core_Model_Config::init` with the following:

```php
public function init($options=array())
{
    $this->setCacheChecksum(null);
    $this->_cacheLoadedSections = array();
    $this->setOptions($options);
    $this->loadBase();

    $cacheLoad = $this->loadModulesCache();
    if ($cacheLoad) {
        return $this;
    }
    //100 Router Fix Start
    $this->_useCache = false;
    //100 Router Fix End
    $this->loadModules();
    $this->loadDb();
    $this->saveCache();
    return $this;
}
```

EDIT: Updated to test on vanilla 1.5

I just ran the replication script on a vanilla install of 1.5. Which had all caches except for the `CONFIG` cache disabled.

It did not produce the `100 router` error as it does on 1.13, but it did break the website and all the homepage displayed was a white screen.

The cause was that when we were looking for a controller and action we were matched with `Mage_Core_IndexController::indexAction` instead of `Mage_Cms_IndexController::indexAction`.

```
class Mage_Core_IndexController extends Mage_Core_Controller_Front_Action {

    function indexAction()
    {

    }
}
```

`Mage_Core_IndexController::indexAction` is an empty function, and explains the white page
perfectly.

I can no longer replicate this error when placing `_useCache = false` into
`Mage_Core_Model_Config` .

I believe that maybe your Magento sites unique configuration might cause it to completely fail to match
a controller, as opposed to falling back to this `Mage_Core_IndexController` action?

share improve this answer   edited Jan 29 at 15:27   answered Jan 20 '15 at 21:27

                                                                                    Luke Rodgers
                                                                                315   3   9

I am using an older version (1.5) of Magento and your 100-routers file does not cause the router issue. I still
have implemented your fix and will report back if it works or not. Like with you it only happens when the server
is under a heavy load. – Christian Jan 22 '15 at 0:41

Thanks for the edit regarding 1.5. Its seems the problem still persists for me even with your code update.
When this error happens the entire site just ends up at an exception alert page. I may try just clearing the
cache programmatically when the 100 router exception is thrown. That may limit its impact and allow me to
keep the cache enabled. – Christian Jan 23 '15 at 0:55

Interesting. I was theorising that it would be possible for different scenarios to cause the `100 router`
problem but I was never able to figure out different means of causing it. If you implement the hack here you
should be able to log a stack trace, and stop the corrupted `CONFIG` cache being saved. If this doesn't catch
it, then your malformed config was very different from mine! – Luke Rodgers Jan 23 '15 at 8:18

Detailed report: github.com/AmpersandHQ/magento-ce-ee-config-corruption-bug – Paul Hachmang Mar 20 '15
at 14:53

---

add a comment

This message is caused by bad cached config data. I'm not sure what actually causes the cached
```

**4**

config to become corrupted - I would guess it could be a number of things that would vary depending on how Magento is running.

I guess, if you can still get to the Magento backend, you can trying clearing cache under System > Cache Management. If that doesn't help (or if you can't get to the Magento backend, which is likely with this error), then determine how your caching is set up by finding the value of < cache >< backend > in app/etc/local.xml. If you're using files for cache (the default), can you can clear out magento/var/cache with

```
rm -rf /path/to/magento/var/cache/*
```

If you're using memcached, find the port under < port > and you can do

```
telnet memcache_server portnumber
flush_all
```

Or if you're using redis, you can do

```
telnet redis_server portnumber
FLUSHALL
```

share improve this answer

answered Dec 1 '15 at 4:59

add a comment

3

We've been having the same issue, and dug a little deeper to discover that the issue doesn't directly relate to which routers are loaded but which modules are loaded.

To work this out we added the following debug code:

```
app/code/core/Mage/Core/Controller/Varien/Front.php : Line 183

if ($i>100) {
    file_put_contents('/tmp/debug.txt', Mage::getConfig()->getNode()->asNiceXm
    Mage::throwException('Front controller reached 100 router match iterations
}
```

When we check the output of this, we can see that ONLY the Mage_Core module is loaded (check the node 'config/modules'. We think there is some kind of race condition that is occuring that means the system is left with a partially formed config that is then cached.

Would be interested in hearing if you have the same situation.

share improve this answer

answered Dec 22 '11 at 16:01

Peter O'Callaghan
5,687 2 12 24

add a comment

2

This error was plaguing one of our clients also with very high loads.. changing the admin url value in local.xml fixed both problems

share improve this answer

answered Nov 10 '11 at 0:26

Andy
190 1 5

The error always appeared after visiting the admin at our store. So I tried this and it "solved" the problem. – i.amniels Dec 7 '14 at 15:50

add a comment

1

This might not help you, but might help others. I was having the same problem out of the blue.

Removing the cache and locks manually did resolve the issue for me (for now).

share improve this answer

answered Dec 27 '14 at 12:41

Mathijs Segers
1,538 2 11 33

That always worked for me temporarily. – Christian Nov 14 '15 at 4:53

add a comment

I tried all of the above suggestions, and didnt get anywhere. I then attempted a backup, as I was going to try an upgrade, and I got a permission error reading a file. This was pretty strange, so I changed the permissions, and it instantly started working.

chmod 770 app/code/core/Mage/Cms/controllers/IndexController.php

Hope this helps someone.

1

share improve this answer

> If the CMS subsystem becomes unavailable for any reason and there is no router match, Magento goes into an infinite loop which is stopped by the 100 iterations rule because there is no default route and Magento cannot find its internal 404 page. This condition is also caused by configuration cache corruption (faulty APC, redis and memcache setups). Bad permissions on the CMS index controller would do it quite well. –
> Fiasco Labs Dec 10 '15 at 6:32

add a comment

If Magento is missing the No-Route CMS Page (url key `no-route`) or if the default `CMS No Route Page` setting isn't set properly in `System=>Configuration=>Web=>Default Pages` , Magento can go into an infinite loop till it hits the 100 iterations limit.

0

share improve this answer

add a comment

Probably your **admin frontname** doesnt match with **roouter->adminhtml->frontname** in **app/etc/local.xml**

0

..

Go to this directory **app/etc/local.xml** from your magento project and be sure it must be same with your admin panel url-frontname;

```
<admin>
    <routers>
        <adminhtml>
            <args>
                <frontName><![CDATA[myadminfrontname]]></frontName>
            </args>
        </adminhtml>
    </routers>
</admin>
```

Your url must be like this

```
http://www.myproject.com/myadminfrontname/
```

also you can remove your cache directory with this code.

go to your project root directory and write

```
rm -rfv var/*
```

share improve this answer

answered Mar 14 at 14:58

fthopkins
381 5 16

add a comment

These are the best steps to solve this type of issues:

0

1. Fixing the Apache Server.

2. Uncommenting a line from `.htaccess` if magento in a sub-directory.

3. Deleting `/var/cache` directory and enabling `mod_rewrite` .

4. Enable HTACCESS usage.

5. Create a No-Route CMS Page.

6. Specify The Proper 404 Page.

7. Can't Find User Cookie (possible reason too).

For more details to implement the above steps follow this link below:
https://merchantprotocol.com/506/solved-front-controller-reached-100-router-match-iterations/

I would like to highly recommend to read Alan Strom's instruction too. The link of Alan Storm's guideline: http://alanstorm.com/magentos_many_404_pages

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