

TYPO3.Flow - Bug #3029

Routing is not working correctly on all platforms

2009-04-03 11:50 - Thomas Fritz

Status:	Resolved	Start date:	2009-04-03
Priority:	Must have	Due date:	
Assignee:	Karsten Dambekalns	% Done:	100%
Category:	MVC	Estimated time:	0.00 hour
Target version:	1.0 alpha 8	Complexity:	
PHP Version:			
Has patch:			

Description

I am getting this error when i request any URL with a path part (<http://flow3.local/testing> , <http://flow3.local/testpackage> ,...).

```
Warning: Unknown: Filename cannot be empty in Unknown on line 0

Fatal error: Unknown: Failed opening required '' (include_path='.:usr/share/php5:usr/share/php')
in Unknown on line 0
```

Platform:
Gentoo Linux. 2.6.27-gentoo-r7
Apache/2.2.10 (Unix) with mod_fcgid-2.2 *NOT* mod_fastcgi-2
PHP 5.3beta1 as CGI/FastCGI
cgi.fix_pathinfo=1 in php.ini

Possible Solution/Workaround:

This part is causing the problem. Change .htaccess from:

```
RewriteRule (.*) index.php/$1
```

to:

```
RewriteRule (.*) index.php
```

...and get the routing information from REQUEST_URI.
Change F3\FLOW3\Utility\Environment#201:

```
public function getRequestURI() {
    if (isset($this->SERVER['PATH_INFO'])) {
        $requestURIStr = $this->getRequestProtocol() . '://' . $this->getHTTPHost() . $this->SERVER['PATH_INFO'] . (strlen($this->SERVER['QUERY_STRING']) ? '?' . $this->SERVER['QUERY_STRING'] : '');
    }
    else if ($this->SERVER['REQUEST_URI']) {
        $requestURIStr = $this->getRequestProtocol() . '://' . $this->getHTTPHost() . $this->SERVER['REQUEST_URI'];
    }
    else {
        $requestURIStr = $this->getRequestProtocol() . '://' . $this->getHTTPHost() . '/';
    }

    $requestURI = new \F3\FLOW3\Property\DataType\URI($requestURIStr);
    return $requestURI;
}
```

Related issues:

Related to TYPO3.Flow - Bug #3375: PATH_INFO is empty using fastcgi / Windows

Resolved**2009-05-19****Associated revisions**

Revision b2870b03 - 2009-08-17 10:21 - Robert Lemke

[+BUGFIX] FLOW3 (Utility): Fix for the getRequestUri function which caused problems on some setup using FastCGI. (Patch by Bastian Waidelich)
Resolves #3029

Revision 3017 - 2009-08-17 10:21 - Robert Lemke

[+BUGFIX] FLOW3 (Utility): Fix for the getRequestUri function which caused problems on some setup using FastCGI. (Patch by Bastian Waidelich)
Resolves #3029

Revision 10f97b78 - 2009-08-18 16:53 - Robert Lemke

[+BUGFIX] FLOW3 (Utility): Reverted the patch from #3029 which resulted in routing problems with URLs like <http://localhost/foo/bar/Web>. Relates to #3029

Revision 3082 - 2009-08-18 16:53 - Robert Lemke

[+BUGFIX] FLOW3 (Utility): Reverted the patch from #3029 which resulted in routing problems with URLs like <http://localhost/foo/bar/Web>. Relates to #3029

Revision b99ba4ab - 2010-02-22 15:23 - Karsten Dambekalns

[+BUGFIX] FLOW3 (Utility): The request URI is now detected correctly with PHP as Apache module as well as FastCGI (tested on Cherokee). Fixes #3029, fixes #3375.

Revision 3833 - 2010-02-22 15:23 - Karsten Dambekalns

[+BUGFIX] FLOW3 (Utility): The request URI is now detected correctly with PHP as Apache module as well as FastCGI (tested on Cherokee). Fixes #3029, fixes #3375.

Revision 8ea282c3 - 2010-02-22 15:23 - Karsten Dambekalns

[+BUGFIX] FLOW3 (Utility): The request URI is now detected correctly with PHP as Apache module as well as FastCGI (tested on Cherokee). Fixes #3029, fixes #3375.

Revision 2fc8d241 - 2010-02-26 00:05 - Karsten Dambekalns

[+API] FLOW3 (Utility): Added detectBaseUri() to Environment. Given an URI instance it tries to detect the corresponding base URI.
[+API] FLOW3 (Utility): Added getScriptRequestPath() to Environment, returns the path to the actual script request relative to the document root.
[~API] FLOW3 (Utility): Renamed getScriptRequestPathAndName() to getScriptRequestPathAndFilename() in Environment.
[~TASK] FLOW3 (MVC): Reverted recent change by Robert related to request path handling, relates to #6596
[~TASK] FLOW3 (Utility): Some more changes to getRequestUri() in Environment, relates to #6596, relates to #3029, relates to #3375.
[~TASK] FLOW3 (Resource): Make use of new getScriptRequestPath() method in FileSystemPublishingTarget.

Revision 3866 - 2010-02-26 00:05 - Karsten Dambekalns

[+API] FLOW3 (Utility): Added detectBaseUri() to Environment. Given an URI instance it tries to detect the corresponding base URI.
[+API] FLOW3 (Utility): Added getScriptRequestPath() to Environment, returns the path to the actual script request relative to the document root.
[~API] FLOW3 (Utility): Renamed getScriptRequestPathAndName() to getScriptRequestPathAndFilename() in Environment.
[~TASK] FLOW3 (MVC): Reverted recent change by Robert related to request path handling, relates to #6596
[~TASK] FLOW3 (Utility): Some more changes to getRequestUri() in Environment, relates to #6596, relates to #3029, relates to #3375.
[~TASK] FLOW3 (Resource): Make use of new getScriptRequestPath() method in FileSystemPublishingTarget.

History

#1 - 2009-05-16 19:32 - Robert Lemke

- Target version set to 1.0 alpha 1

#2 - 2009-05-25 12:44 - Robert Lemke

- Category set to MVC

- Assignee set to Bastian Waidelich

Bastian, can you check this one?

#3 - 2009-05-25 15:10 - Bastian Waidelich

- File FLOW3_3029.patch added

- Status changed from New to Needs Feedback

I can't reproduce this on platform:

OS: Windows 7 RC1
Apache/2.0.63 (Win32) PHP/5.3.0RC2-dev
PHP Version 5.3.0RC2-dev

Attached is a patch that applies your suggested change to F3\FLOW3\Utility\Environment. But ATM I need more information to know exactly what the problem is.

Does it still occur with the latest PHP version?

#4 - 2009-05-25 17:36 - Robert Lemke

- Priority changed from Must have to Should have

#5 - 2009-05-25 18:39 - Karsten Dambekalns

Bastian Waidelich wrote:

I can't reproduce this on platform:

Do you run PHP as FastCGI, CGI or Apache module? That probably makes a difference...

#6 - 2009-06-01 13:13 - Robert Lemke

- Target version changed from 1.0 alpha 1 to 283

#7 - 2009-06-04 10:02 - Bastian Waidelich

Karsten Dambekalns wrote:

Do you run PHP as FastCGI, CGI or Apache module? That probably makes a difference...

Apache module..

Can someone else reproduce this?

#8 - 2009-07-01 16:24 - Markus Wagner

I can reproduce this on two machines:

Debian Etch
Apache/2.2.3 with mod_fcgid
PHP 5.3.0 as CGI/FastCGI
cgi.fix_pathinfo=1 in php.ini

Debian Lenny
Apache/2.2.9 with mod_fcgid
PHP 5.3.0RC4 (from php53.dotdeb.org) AS CGI/FastCGI
cgi.fix_pathinfo=1 in php.ini

BTW: \$_SERVER['PATH_INFO'] is empty for every request. A FastCGI problem?

#9 - 2009-07-06 14:52 - Robert Lemke

- Priority changed from Should have to Must have

#10 - 2009-07-13 10:54 - Robert Lemke

- Target version changed from 283 to 1.0 alpha 3

#11 - 2009-07-21 19:02 - Bastian Waidelich

- File FLOW3_Distribution_3029.patch added

- File FLOW3_3029_v2.patch added

- Assignee deleted (Bastian Waidelich)

I can't reproduce the issue on Windows (with PHP as Apache module). Thus I can't validate the Patch either.. All I can say is: The patch does not break anything in my environment.

Attached is a cleaned-up version of the patch.

@Markus can you please check whether the patch fixes the issue for you?

#12 - 2009-07-27 12:06 - Robert Lemke

- Assignee set to Bastian Waidelich

- % Done changed from 0 to 30

Bastian Waidelich wrote:

I can't reproduce the issue on Windows (with PHP as Apache module). Thus I can't validate the Patch either.. All I can say is: The patch does not break anything in my environment.
Attached is a cleaned-up version of the patch.

@Markus can you please check whether the patch fixes the issue for you?

@Markus: Any chance to try the patch? If so, we could include the fix in alpha3.

#13 - 2009-07-31 15:33 - Bastian Waidelich

I could not get hold of Marcus. Maybe someone else with the same setup could try the patch?

#14 - 2009-08-17 11:00 - Robert Lemke

- Status changed from Needs Feedback to Resolved

- % Done changed from 30 to 100

Applied in changeset r3017.

#15 - 2009-08-18 16:53 - Robert Lemke

- Status changed from Resolved to Needs Feedback

- % Done changed from 100 to 70

#16 - 2009-09-04 11:37 - Robert Lemke

- Target version changed from 1.0 alpha 3 to 283

#17 - 2009-09-28 15:52 - Bastian Waidelich

- Assignee deleted (Bastian Waidelich)

I delete myself as assignee (again) as I can't reproduce this on my machine - sorry

#18 - 2009-12-14 10:27 - Karsten Dambekalns

By Marco Weber:

Im not sure... The error message sound familiar.

Could this be a problem on the gentoo configuration? Sometimes it happens that the path of the script to execute is passed to the php-cgi in wrong format.

In this case you will see an error message like the one in the ticket:

```
Warning: Unknown: Filename cannot be empty in Unknown on line 0
Fatal error: Unknown: Failed opening required ''
(include_path='./usr/share/php5:usr/share/php') in Unknown on line 0
```

The solution: You can then set the PATH_TRANSLATED variable in the FCGI Starter Script. This variable will tell the php-cgi which file to execute.

You can then simply add something like this at the beginning of your starter script:

```
TRUNC_PATH_TRANSLATED=`/usr/local/bin/translate`
if test "$?" = "0"
then
  export PATH_TRANSLATED=$TRUNC_PATH_TRANSLATED
fi
```

(/usr/local/bin/translate is a tool written by myself... You just need to analyse the wrong path and then set the corrected one...)

#19 - 2010-01-29 14:39 - Thomas Fritz

Karsten Dambekalns wrote:

By Marco Weber:

Im not sure... The error message sound familiar.

Could this be a problem on the gentoo configuration? Sometimes it happens that the path of the script to execute is passed to the php-cgi in wrong format.

In this case you will see an error message like the one in the ticket:

[...]

The solution: You can then set the PATH_TRANSLATED variable in the FCGI Starter Script. This variable will tell the php-cgi which file to execute.

You can then simply add something like this at the beginning of your starter script:

[...]

(/usr/local/bin/translate is a tool written by myself... You just need to analyse the wrong path and then set the corrected one...)

Could you post the content of your translate tool? This would be great.

But actually i think that this issue requires to change the way FLOW3 handles requests and routing, because php with fcgid has problems with "RewriteRule (.*) index.php/\$1"

There are 2 solutions which work in every environment:

One way would be to change the RewriteRule to:

In this case the path would be in the QUERY_STRING Variable.

```
RewriteRule (.*) index.php?/$1
```

or to change it to:

This way the path can be analysed from REQUEST_URI Variable.

```
RewriteRule (.*) index.php
```

I would prefer the first RewriteRule as QUERY_STRING Variable does not have any problems on any environment. Of course there would be some minor changes to Environment.php too.

I also would append [L,QSA] to the end of the RewriteRule. This would Append the query string to the request. (QSA = Query String Append).

This issue is nothing new at all. You can search for this kind of issue. This is a known issue with this Environment:

[http://www.google.at/search?hl=de&q=fcgi+"no+input+file+specified"+mod_rewrite+apache](http://www.google.at/search?hl=de&q=fcgi+)

<http://www.mail-archive.com/symfony-users@googlegroups.com/msg20367.html>

<http://stackoverflow.com/questions/1557258/htaccess-problem-no-input-file-specified>

I have also tried all the solutions above:

'FcgidFixPathinfo 1' in vhost configuration

'doc_root=/var/www/xxx/public' in php.ini

'cgi.fix_pathinfo=1' in php.ini

'RewriteBase /' in .htaccess

Nothing worked.

If i patch Environment.php as i posted, FLOW3 works as expected. I hope this helps and this fix can be integrated soon.

If you need such an environment to test it (Linux, Apache, PHP, mod_rewrite, FCGID), I can give you a virtual machine.

#20 - 2010-01-29 16:09 - Thomas Fritz

I have made some tests:

I tested this url with different RewriteRules.

http://flow3.wda.local/info/path1/path2.asdf.qwertz/lorem.xml?foo=bar&foo2=baz.xyz&lalala=/path3/path4_asdf-1235648---xyz.abcdef?xyz

RewriteRule 1:

```
RewriteRule info/(.*) info.php [L]
```

Result:

```
_SERVER:
REQUEST_URI string(110) "/info/path1/path2,asdf,qwertz/lorem.xml?foo=bar&foo2=baz,xyz&lalala=/path3/path4_asdf-1235648---xyz,abcdef?xyz"
QUERY_STRING string(70) "foo=bar&foo2=baz,xyz&lalala=/path3/path4_asdf-1235648---xyz,abcdef?xyz"
PATH_INFO NULL
ORIG_PATH_INFO NULL
PATH_TRANSLATED NULL
```

```
_GET:
foo string(3) "bar"
foo2 string(7) "baz,xyz"
lalala string(42) "/path3/path4_asdf-1235648---xyz,abcdef?xyz"
```

RewriteRule 2:

```
RewriteRule info/(.*) info.php [L,QSA]
```

Result:

```
_SERVER:
REQUEST_URI string(110) "/info/path1/path2,asdf,qwertz/lorem.xml?foo=bar&foo2=baz,xyz&lalala=/path3/path4_asdf-1235648---xyz,abcdef?xyz"
QUERY_STRING string(70) "foo=bar&foo2=baz,xyz&lalala=/path3/path4_asdf-1235648---xyz,abcdef?xyz"
PATH_INFO NULL
ORIG_PATH_INFO NULL
PATH_TRANSLATED NULL
```

```
_GET:
foo string(3) "bar"
foo2 string(7) "baz,xyz"
lalala string(42) "/path3/path4_asdf-1235648---xyz,abcdef?xyz"
```

RewriteRule 3:

```
RewriteRule info/(.*) info.php?/$1 [L]
```

Result:

```
_SERVER:
REQUEST_URI string(110) "/info/path1/path2,asdf,qwertz/lorem.xml?foo=bar&foo2=baz,xyz&lalala=/path3/path4_asdf-1235648---xyz,abcdef?xyz"
QUERY_STRING string(34) "/path1/path2,asdf,qwertz/lorem.xml"
PATH_INFO NULL
ORIG_PATH_INFO NULL
PATH_TRANSLATED NULL
```

```
_GET:
/path1/path2,asdf,qwertz/lorem_xml string(0) ""
```

RewriteRule 4:

```
RewriteRule info/(.*) info.php?/$1 [L,QSA]
```

Result:

```
_SERVER:
REQUEST_URI string(110) "/info/path1/path2,asdf,qwertz/lorem.xml?foo=bar&foo2=baz,xyz&lalala=/path3/path4_asdf-1235648---xyz,abcdef?xyz"
QUERY_STRING string(105) "/path1/path2,asdf,qwertz/lorem.xml&foo=bar&foo2=baz,xyz&lalala=/path3/path4_asdf-1235648---xyz,abcdef?xyz"
PATH_INFO NULL
ORIG_PATH_INFO NULL
PATH_TRANSLATED NULL
```

```
_GET:
/path1/path2,asdf,qwertz/lorem_xml string(0) ""
foo string(3) "bar"
foo2 string(7) "baz,xyz"
lalala string(42) "/path3/path4_asdf-1235648---xyz,abcdef?xyz"
```

So i change my mind. I think RewriteRule 1 or 2 is the one you should change to, because Rule 3 and 4 changes 'lorem.xml' to 'lorem_xml'

The Test Code:

```
<h1>_SERVER:</h1>
<pre>
<?php
echo "<strong>REQUEST_URI&nbsp;&nbsp;&nbsp;</strong>";
var_dump(isset($_SERVER['REQUEST_URI']) ? $_SERVER['REQUEST_URI'] : null);
echo "<strong>QUERY_STRING&nbsp;&nbsp;&nbsp;</strong>";
var_dump(isset($_SERVER['QUERY_STRING']) ? $_SERVER['QUERY_STRING'] : null);
echo "<strong>PATH_INFO&nbsp;&nbsp;&nbsp;</strong>";
var_dump(isset($_SERVER['PATH_INFO']) ? $_SERVER['PATH_INFO'] : null);
echo "<strong>ORIG_PATH_INFO&nbsp;&nbsp;&nbsp;</strong>";
var_dump(isset($_SERVER['ORIG_PATH_INFO']) ? $_SERVER['PATH_INFO'] : null);
echo "<strong>PATH_TRANSLATED&nbsp;&nbsp;&nbsp;</strong>";
var_dump(isset($_SERVER['PATH_TRANSLATED']) ? $_SERVER['PATH_TRANSLATED'] : null);
?>
</pre>
<br/>
<h1>_GET:</h1>
<pre>
<?php
foreach ($_GET as $key => $value) {
    echo "<strong>" . $key . "&nbsp;&nbsp;&nbsp;</strong>";
    var_dump($value);
}
?>
</pre>
```

Hope this helps to fix this Issue soon.

#21 - 2010-02-02 11:33 - Karsten Dambekalns

- Status changed from Needs Feedback to Accepted
- Assignee set to Karsten Dambekalns
- Target version changed from 283 to 1.0 alpha 8

#22 - 2010-02-22 16:00 - Karsten Dambekalns

- Status changed from Accepted to Resolved
- % Done changed from 70 to 100

Applied in changeset r3833.

#23 - 2010-02-22 16:23 - Thomas Fritz

Karsten Dambekalns wrote:

Applied in changeset r3833.

This works for my Environment! Thanks

#24 - 2010-03-21 21:22 - Steffen Müller

confirmed the bug on Debian Squeeze using Apache with mod-fcgid and php-cgi
The patches from r3833 fix the problem on this environment.

Thanks!

Files

FLOW3_3029.patch

732 Bytes

2009-05-25

Bastian Waidelich

FLOW3_Distribution_3029.patch
FLOW3_3029_v2.patch

371 Bytes
788 Bytes

2009-07-21
2009-07-21

Bastian Waidelich
Bastian Waidelich