TYPO3 Core - Bug #55099

PHP Warnings after clearing configuration cache in BE

2014-01-17 11:29 - Markus Klein

Status:	Closed		**Start date:**	2014-01-17
Priority:	Must have		**Due date:**	
Assignee:			**% Done:**	100%
Category:	Backend API		**Estimated time:**	0.00 hour
Target version:	next-patchlevel			
TYPO3 Version:	6.2		**Complexity:**	
PHP Version:			**Is Regression:**	No
Tags:			**Sprint Focus:**	

Description

Steps to reproduce

1. rm -rf typo3temp/*
2. Open BE, Page module
3. Click on some random page in the tree
4. Clear the configuration cache via toolbar icon
5. Click on some page again in the tree

An extdirect exception popups at the bottom of the BE

```
Warning: rename(/var/www/html/master/typo3temp/Cache/Data/cache_classes/52d9026814521.temp,/var/www/html/master/typo3temp/Cache/Data/cache_classes/typo3_cms_extbase_property_typeconverter_fileconverter): No such file or directory in ..../typo3/sysext/core/Classes/Cache/Backend/SimpleFileBackend.php on line 244
```

(the affected class looks rather random, but it is always the same line 244)

You can continue at this point to work in BE, but
if you clear the configuration cache **again** and
quickly click on a page in the tree, the **complete BE fails**.

The warning above is displayed again and additionally this is displayed:

```
PHP Warning: Class 'TYPO3\CMS\Core\Log\Loggerphp' not found in ..../typo3/sysext/core/Classes/Core/ClassAliasMap.php line 270
or
PHP Warning: Class 'TYPO3\CMS\Core\Resource\ResourceInterfacer\AbstractController' not found in ..../typo3/sysext/core/Classes/Core/ClassAliasMap.php line 270
```

One has to clear typo3temp manually in order to get the BE back to work.
I've no clue what's going on here, looks like some timing issue and/or race condition.

Note: I've activated this setting in the installer in order to really see all (otherwise silent) warnings:
['SYS']['exceptionalErrors'] => '28674'

Related issues:

Related to TYPO3 Core - Bug #55029: Class Loader fails if entry in class cach...	**Closed**	2014-01-15	
Related to TYPO3 Core - Bug #54768: t3lib_pageSelect* compatibility classes n...	**Closed**	2014-01-06	
Related to TYPO3 Core - Bug #54906: Fatal error: Interface 'Psr\Log\LoggerInt...	**Closed**	2014-03-12	2014-03-12
Related to TYPO3 Core - Bug #55294: Under heavy load, two request can simulta...	**Closed**	2014-01-24	
Related to TYPO3 Core - Bug #57008: New Installation: Could not acquire lock ...	**Closed**	2014-03-17	
Related to TYPO3 Core - Feature #47712: Refactor Locking	**Closed**	2013-02-08	
Related to TYPO3 Core - Bug #67366: PHP Errors after clearing cache in BE	**Closed**	2015-06-09	

Associated revisions

Revision 76284d26 - 2014-03-15 12:41 - Alexander Opitz

[BUGFIX] Implement locking in ClassLoader

After cache clearing we can run in the situation that 2 processes will
rebuild the ClassLoader cache which will lead to a non useable cache,
which produces fatals. As the data is generated more than once the load
of the server increases per request while ClassLoader cache is build.

The implemented Locking will stop this issue. Every process waits till
the first is ready and then looks if data was generated and stops re-
generating the cache.

Resolves: #55099
Releases: 6.2
Change-Id: I109821b9c37ec99c5ec5dbc5bcef6223d1d0d153
Reviewed-on: https://review.typo3.org/28156
Reviewed-by: Markus Klein
Tested-by: Markus Klein
Reviewed-by: Thomas Maroschik
Tested-by: Thomas Maroschik
Reviewed-by: Anja Leichsenring
Tested-by: Anja Leichsenring

Revision 2268f64c - 2014-03-17 22:16 - Alexander Opitz

[BUGFIX] Implement locking in ClassLoader

After cache clearing we can run in the situation that 2 processes will
rebuild the ClassLoader cache which will lead to a non useable cache,
which produces fatals. As the data is generated more than once the load
of the server increases per request while ClassLoader cache is build.

The implemented Locking will stop this issue. Every process waits till
the first is ready and then looks if data was generated and stops re-
generating the cache.

To-Do: Make it work also for first time installation when there is
no typo3temp/ directory yet.

Resolves: #55099
Releases: 6.2
Change-Id: I9c1916b5b5860e86fe19a1fc292d8ab5a196d960
Reviewed-on: https://review.typo3.org/28480
Reviewed-by: Ernesto Baschny
Tested-by: Ernesto Baschny

History

#1 - 2014-01-17 13:01 - Helmut Hummel

Markus Klein wrote:

> **Steps to reproduce**
>
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>
> An extdirect exception popups at the bottom of the BE
> [...]
> (the affected class looks rather random, but it is always the same line 244)

I cannot reproduce this on my system, but saw these warnings on a customer system lately.
While this is very likely a race condition in the file backend, I'm still asking myself how this happens and if the temp file is missing during that operation
or if some directory is not present.

#2 - 2014-01-17 13:07 - Helmut Hummel

Markus Klein wrote:

> You can continue at this point to work in BE, but
> if you clear the configuration cache **again** and

quickly click on a page in the tree, the **complete BE fails**.

If the classes cache is inconsistent, everything breaks currently.
See [#55029](#)

Needs to be fixed!

#3 - 2014-01-17 13:19 - Markus Klein

Thanks for your response Helmut.

Without knowing the code right now, do the cache backends use any locking at all?

#4 - 2014-01-20 19:39 - Oliver Hader

Important one... just ran into this issue with extensions using type hints in backend hooks pointing e.g. to t3lib_TCEmain and that class alias not being available...

#5 - 2014-02-25 21:04 - Franz Holzinger

I randomly get some error and warning messages if I want to use the EM.

```
PHP Warning:  rename(/mypath/typo3temp/Cache/Data/cache_classes/530ce35ad4603.temp,/mypath/typo3temp/Dat
a/cache_classes/typo3_cms_core_compatibility_loadedextensionsarray) [<a href='function.rename'>function.rename
</a>]: No such file or directory in /mypath/typo3/sysext/core/Classes/Cache/Backend/SimpleFileBackend.php on l
ine 244
PHP Warning:  rename(/mypath/typo3temp/Cache/Data/cache_classes/530ce35b64123.temp,/mypath/typo3temp/Dat
a/cache_classes/clearcachemenu) [<a href='function.rename'>function.rename</a>]: No such file or directory in
/mypath/typo3/sysext/core/Classes/Cache/Backend/SimpleFileBackend.php on line 244
PHP Warning:  rename(/mypath/typo3temp/Cache/Data/cache_classes/530ce35b68f43.temp,/mypath/typo3temp/Dat
a/cache_classes/typo3_cms_backend_toolbar_livesearchtoolbaritem) [<a href='function.rename'>function.rename</a
>]: No such file or directory in /mypath/typo3/sysext/core/Classes/Cache/Backend/SimpleFileBackend.php on line
 244
PHP Fatal error:  Class 'TYPO3\CMS\Backend\Sprite\AbstractSpriteHandler' not found in /mypath/typo3/sysext/bac
kend/Classes/Sprite/SimpleSpriteHandler.php on line 40
PHP Fatal error:  Class 'TYPO3\CMS\Core\Resource\Driver\AbstractDriver' not found in /mypath/typo3/sysext/core
/Classes/Resource/Driver/AbstractHierarchicalFilesystemDriver.php on line 35
PHP Fatal error: Class 'TYPO3\CMS\Core\Resource\ResourceStorage' not found in /mypath/typo3temp/Cache/Code/cac
he_core/ext_localconf_ff0939e805d9053eba290499baf8d6edbd4fb258.php on line 38
```

#6 - 2014-03-07 02:37 - Markus Klein

Please see the blueprint for solving this: http://wiki.typo3.org/Blueprints/LockingForCaches

#7 - 2014-03-13 23:21 - Gerrit Code Review

- Status changed from Accepted to Under Review

Patch set 20 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at https://review.typo3.org/28156

#8 - 2014-03-15 12:00 - Thomas Maroschik

I have written a bash script to provoke the error

```
#!/bin/bash

i="0"
url="http://introductionpackage.dev.dfau/index.php?id=51"

while true
do
        rm -R typo3temp/Cache
        i=$[$i+1]
        curl -s -o - $url | grep -o "Fatal error:.*</i>" && echo "Request $i failed" &
        i=$[$i+1]
        curl -s -o - $url | grep -o "Fatal error:.*</i>" && echo "Request $i failed" &
        wait
done
wait
```

Please replace the url variable with one that matches your site. Run this script from the site root. It tests frontend requests but the issue is present there too.

#9 - 2014-03-15 13:30 - Alexander Opitz

- Status changed from Under Review to Resolved

- % Done changed from 0 to 100

Applied in changeset [76284d26065af1a0a5b141f5f16305a5821609fa](#).

#10 - 2014-03-15 20:48 - Ernesto Baschny

- Status changed from Resolved to On Hold

This was reverted for 6.2 beta7: https://review.typo3.org/#/c/28426/

Will be re-added afterwards again.

#11 - 2014-03-17 22:15 - Gerrit Code Review

- Status changed from On Hold to Under Review

Patch set 1 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at https://review.typo3.org/28480

#12 - 2014-03-17 22:30 - Alexander Opitz

- Status changed from Under Review to Resolved

Applied in changeset [2268f64c18b607ba39d06b1580afb0ccd786d6b1](#).

#13 - 2018-10-02 12:07 - Benni Mack

- Status changed from Resolved to Closed