Core - Bug # 56348

Status:	Closed	Priority:	Must have
Author:	Grégory Duchesnes	Category:	Frontend
Created:	2014-02-26	Assigned To:	Mathias Schreiber
Updated:	2015-07-18	Due date:	

TYPO3 Version:	6.1
PHP Version:	5.3
Complexity:	hard
Is Regression:	No
Sprint Focus:	

Subject:	Session randomly lost in eID

Description

Hi all,

I have a piece of eID code that checks if a user is loggued in to the website and then takes action or send him back to an error page. Once in a while $GLOBALS["TSFE"]->fe_user->user is false for no reason (i can see in the logs that the user logged-in few only a few seconds before).

Bug occurs in any browser, the website runs in https, has a P3P policy (for IE) and is not behind a proxy.

Here is my code (simplified) :

```
$GLOBALS["TSFE"] =
\TYPO3\CMS\Core\Utility\GeneralUtility::makeInstance('TYPO3\CMS\Frontend\Controller\TypoScriptFrontendController',
$TYPO3_CONF_VARS, 0, 0);
$GLOBALS["TSFE"]->initFEuser();
if(!$GLOBALS["TSFE"]->fe_user->user) {
    header('Location: /?logintype=logout&session=expired');
    die();
}
```

My session config :

```
'FE' => array(
    'lifetime' => '1800',
    'loginSecurityLevel' => 'normal',
    'permalogin' => '2',
    'sessionDataLifetime' => '1800',
),
```

And here is what i see in my apache log file :

```
# the guy connects to the site : ok
xxx.51.48.xx - - [26/Feb/2014:10:40:01 +0100] "POST / HTTP/1.1" 200 17025
# downloads some resources : ok
xxx.51.48.xx - - [26/Feb/2014:10:40:03 +0100] "GET
/typo3temp/vhs-assets-1f45c81006146c4e25a69b3c56b0fc5c-4e0ef181f23cb080794861bbc21114e0.css?1393407602
HTTP/1.1" 200 9520
# browses to another page : ok
xxx.51.48.xx - - [26/Feb/2014:10:40:52 +0100] "GET /attestations/ HTTP/1.1" 200 17037
# tries to call the eID : KO
xxx.51.48.xx - - [26/Feb/2014:10:41:02 +0100] "GET
/attestations/?eID=espacesante_downloadAttestationSecu&annee=2013&fe_user=xxxxx&cHash=544421d45e7e2c1f2d9cc4d8896f4670 H
896f4670 HTTP/1.1" 302 -
xxx.51.48.xx - - [26/Feb/2014:10:41:02 +0100] "GET /?logintype=logout&session=expired HTTP/1.1" 200 14851
```

And in my MySQL logs :

when everything works fine (goes to another page) :

```
140226 10:40:52  117 Connect    xxx@localhost on
        117 Query    SET NAMES utf8
        117 Query    SELECT @@SESSION.sql_mode
        117 Init DB   xxx
        117 Query    SELECT COUNT(*) FROM fe_sessions WHERE ses_id = 'e5d1676ea7103abfcae1789cbc7dde18'
        117 Query    SELECT * FROM fe_sessions,fe_users WHERE fe_sessions.ses_id =
'e5d1676ea7103abfcae1789cbc7dde18'
            AND fe_sessions.ses_name = 'fe_typo_user'
            AND fe_sessions.ses_userid = fe_users.uid
            AND (
        fe_sessions.ses_iplock = 'xxx.51'
        OR fe_sessions.ses_iplock='[DISABLED]'
        )
            AND fe_sessions.ses_hashlock=59869828
             AND fe_users.disable=0 AND fe_users.deleted=0 AND (fe_users.starttime<=1393407652) AND
(fe_users.endtime=0 OR fe_users.endtime>1393407652)
        117 Query    UPDATE fe_sessions SET ses_tstamp='1393407652' WHERE
ses_id='e5d1676ea7103abfcae1789cbc7dde18'
                        AND ses_name='fe_typo_user'
        117 Query    SELECT * FROM fe_sessions,fe_users WHERE fe_sessions.ses_id =
'e5d1676ea7103abfcae1789cbc7dde18'
            AND fe_sessions.ses_name = 'fe_typo_user'
            AND fe_sessions.ses_userid = fe_users.uid
            AND (
        fe_sessions.ses_iplock = 'xxx.51'
        OR fe_sessions.ses_iplock='[DISABLED]'
        )
            AND fe_sessions.ses_hashlock=59869828
             AND fe_users.disable=0 AND fe_users.deleted=0 AND (fe_users.starttime<=1393407652) AND
(fe_users.endtime=0 OR fe_users.endtime>1393407652)
        117 Query    UPDATE fe_sessions SET ses_tstamp='1393407652' WHERE
ses_id='e5d1676ea7103abfcae1789cbc7dde18'
                        AND ses_name='fe_typo_user'
        117 Query    SELECT * FROM fe_session_data WHERE hash = 'e5d1676ea7103abfcae1789cbc7dde18'
```

And when it fails (eID) :

```
140226 10:41:02    132 Connect    xxx@localhost on
        132 Query    SET NAMES utf8
        132 Query    SELECT @@SESSION.sql_mode
        132 Init DB   xxx
        132 Query    SELECT COUNT(*) FROM fe_sessions WHERE ses_id = 'e5d1676ea7103abfcae1789cbc7dde18'
        132 Query    SELECT content,tstamp FROM fe_session_data WHERE hash = 'e5d1676ea7103abfcae1789cbc7dde18'
        132 Query    SELECT * FROM fe_sessions,fe_users WHERE fe_sessions.ses_id =
'e5d1676ea7103abfcae1789cbc7dde18'
            AND fe_sessions.ses_name = 'fe_typo_user'
            AND fe_sessions.ses_userid = fe_users.uid

            AND fe_sessions.ses_hashlock=59869828
             AND fe_users.disable=0 AND fe_users.deleted=0 AND (fe_users.starttime<=1393407662) AND
(fe_users.endtime=0 OR fe_users.endtime>1393407662)
        131 Query    SELECT content FROM cf_extbase_object WHERE identifier = 'f4161c7b5ff989cc5937476177f76d76' AND
cf_extbase_object.expires >= 1393407661 LIMIT 1
        132 Query    SELECT /*! SQL_NO_CACHE */ ses_userid FROM fe_sessions WHERE ses_id=0
        132 Query    DELETE FROM fe_session_data WHERE hash='e5d1676ea7103abfcae1789cbc7dde18'
        132 Query    DELETE FROM fe_sessions WHERE ses_id = 'e5d1676ea7103abfcae1789cbc7dde18'
            AND ses_name = 'fe_typo_user'
        132 Query    SELECT * FROM fe_sessions,fe_users WHERE fe_sessions.ses_id =
'e5d1676ea7103abfcae1789cbc7dde18'
            AND fe_sessions.ses_name = 'fe_typo_user'
```

AND fe_sessions.ses_userid = fe_users.uid

                   AND fe_sessions.ses_hashlock=59869828
                    AND fe_users.disable=0 AND fe_users.deleted=0 AND (fe_users.starttime<=1393407662) AND
        (fe_users.endtime=0 OR fe_users.endtime>1393407662)
                132 Query   SELECT /*! SQL_NO_CACHE */ ses_userid FROM fe_sessions WHERE ses_id=0
                132 Query   DELETE FROM fe_session_data WHERE hash='e5d1676ea7103abfcae1789cbc7dde18'
                132 Query   DELETE FROM fe_sessions WHERE ses_id = 'e5d1676ea7103abfcae1789cbc7dde18'
                    AND ses_name = 'fe_typo_user'
                132 Quit

Any clue?

Related issues:		
related to Core - Bug # 53598: Select/Delete fe_sessions twice per request	**Resolved**	**2013-11-13**

History

#1 - 2014-02-26 16:54 - Grégory Duchesnes

NB : bug is not garbage collector related since session garbage collection occured at 10:39:22 (before the initial login) and at 10:42:21 (after error)

#2 - 2014-02-27 01:05 - Markus Klein

Where does the line
1132SELECT/*! SQL_NO_CACHE */ ses_userid FROM fe_sessions WHERE ses_id=0
come from?

(The whole 6.1 Core does contain the string "SQL_NO_CACHE" only once. And that is in a unit test for DBAL extension)

Furthermore I can recommend a look into \TYPO3\CMS\Frontend\Utility\EidUtility which provides some nice helper functions here.
Your example would reduce to:
    1$feuser = \TYPO3\CMS\Frontend\Utility\EidUtility:initFeUser();
    2if (empty($feuser->user)) {
    3   header('Location: /?logintype=logout&session=expired');
    4   die();
    5}

#3 - 2014-02-27 08:56 - Grégory Duchesnes

Hi Markus and thanks for your answer.

The SQL_NO_CACHE line comes from a hook in logoff_pre_processing. I use it to make sure that sessionData is cleared on logout (might be useless
in 6.1 but 4.5 used to leave some crap behind). Here follows the code, as you can see, since the user session has not been found by TYPO3
(ses_id=0) it can not do any harm.

    class Tx_Espacesante_Hooks_T3libUserauth {
        public function logoff_pre_processing($params, $obj) {
            if($obj->user_table != 'be_users') {
                $res = $GLOBALS['TYPO3_DB']->exec_SELECTquery(
                    '/*! SQL_NO_CACHE */ ses_userid',

```
        'fe_sessions',
        'ses_id='.intval($obj->id)
    );

    if($GLOBALS['TYPO3_DB']->sql_num_rows($res)) {
        $row = $GLOBALS['TYPO3_DB']->sql_fetch_assoc($res);
    }

    if ($row) {
        $GLOBALS['TYPO3_DB']->exec_DELETEquery(
            'fe_sessions',
            'ses_id='.intval($obj->id)
        );

        $GLOBALS['TYPO3_DB']->exec_UPDATEquery(
            'fe_users',
            'uid=' . $row['ses_userid'],
            array('uc' => '')
        );
    }
    if(method_exists($GLOBALS['TSFE']->fe_user, removeSessionData)) $GLOBALS['TSFE']->fe_user->removeSessionData();
  }
 }
}
```

Thanks for the tip about EidUtility, i'm aware of this class but i need a proper $GLOBALS['TSFE'] for further treatment.

#4 - 2014-02-27 15:03 - Markus Klein

Regarding the Eid. Just use the getTSFE() function and assign it to the global variable. It is much better to use API here, since if we need to change stuff somehow in the creation process of TSFE, you ext does not break. ;-)

```
1 $GLOBAL['TSFE'] = \TYPO3\CMS\Frontend\Utility\EidUtility::getTSFE();
2 feuser = \TYPO3\CMS\Frontend\Utility\EidUtility::initFeUser();
3 if (empty($feuser->user)) {
4   header('Location: /?logintype=logout&session=expired');
5   die();
6 }
```

I'm not sure if the problem is then database related. You've to check the code for initalizing the fe_user why no user data is fetched.
Can you maybe also check if $feuser is an object at all?

#5 - 2014-03-04 09:47 - Grégory Duchesnes

I made some new tests and using APC as a cache backend, therefore lowering the load on the database, significally reduced the problem.
Furhtermore i did not have rootpageid set in my realurl config which triggered some more useless queries, i fixed that.

I still have a few disconnects but their number has been reduced by a factor of 5 or so.

that's weird...

#6 - 2014-03-04 14:28 - Grégory Duchesnes

Looking at my stats it is now clear that the remaining disconnections are due to internet explorer 11.
I'll try to set [FE][lockHashKeyWords] = '' to see if it is related to the fact that the useragent changes during connection (a bug that used to occur with IE8)

I've seen bug #53818 but it concerns only BE and is Ext.Direct related (which i don't use).

For the records i already have a P3P policy and my Servername does not contain any "_" character

#7 - 2015-01-26 21:36 - Mathias Schreiber

- Status changed from New to Needs Feedback
- Assigned To set to Mathias Schreiber

Hi Grégory,

any news here?

#8 - 2015-01-27 09:19 - Grégory Duchesnes

Hi Mathias,

I forgot to send a feedback, i'm really sorry.

I couldn't find a definitive solution to my problem but i managed to reduce its impact thanks to a deep analysis of the application.

To make it short i managed to reduce it by a factor of 4 by activating APC cache, which proves that part of the problem was database related.

Then i found that most of the remaining lost connections were on Internet Explorer 11 and i found the explaination on this feedback :
https://connect.microsoft.com/IE/feedback/details/810700/subject-ie11-is-losing-cookie-information-and-thus-becoming-detached-from-a-web-applicati n-session

For this second problem, i had no other choice than displaying a specific message for IE11 users when they got disconnected.

Hope this helps

#9 - 2015-06-17 08:58 - Alexander Opitz

So we can close this issue or is something todo for us?

#10 - 2015-07-18 18:00 - Wouter Wolters

- Status changed from Needs Feedback to Closed

Closed as solved.