

## Redmine - Defect #15947

### Deadlock when delete issues in same time on multiple sessions

2014-01-23 11:48 - Nguyen Thinh Kha

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	Jean-Philippe Lang	<b>% Done:</b>	0%
<b>Category:</b>	Issues	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.5.0	<b>Affected version:</b>	2.3.3
<b>Resolution:</b>	Fixed		

#### Description

Dear team,

When we have multiple sessions try to delete issues in same times, we encounter this internal error:

```
ActiveRecord::StatementInvalid (Mysql2::Error: Deadlock found when trying to get lock; try restarting transaction: SELECT `issues`.* FROM `issues` WHERE `issues`.`root_id` = 145786 AND (`issues`.`lft` >= 1 AND `issues`.`rgt` <= 2) AND (`issues`.`id` != 145786) ORDER BY `issues`.`lft`):
```

The trace:

```
Started DELETE "/issues/17669" for 127.0.0.1 at 2014-01-23 16:34:09 +0700
```

Processing by IssuesController#destroy as HTML

Parameters: {"authenticity\_token"=>"tlayCB7PIeZTrauenLr7g4HoeWkjz6S43YG6tZBRQE0=", "id"=>"17669"}

(3.0ms) SELECT MAX AS max\_id FROM `settings`

User Load (3.0ms) SELECT `users`.\* FROM `users` WHERE `users`.`type` IN ('User', 'AnonymousUser') AND `users`.`status` = 1 AND `users`.`id` = 1454 LIMIT 1

Current user: ttanhanh (id=1454)

Issue Load (3.0ms) SELECT `issues`.\* FROM `issues` WHERE `issues`.`id` = 17669

Project Load (2.0ms) SELECT `projects`.\* FROM `projects` WHERE `projects`.`id` = 10 LIMIT 1

EnabledModule Load (3.0ms) SELECT name FROM `enabled\_modules` WHERE `enabled\_modules`.`project\_id` = 10

(2.0ms) SELECT SUM AS sum\_id FROM `time\_entries` WHERE (issue\_id IN (17669))

Issue Load (4.0ms) SELECT `issues`.\* FROM `issues` WHERE `issues`.`id` = 17669 LIMIT 1

(2.0ms) BEGIN

Journal Load (3.0ms) SELECT `journals`.\* FROM `journals` WHERE `journals`.`journalized\_id` = 17669 AND

`journals`.`journalized\_type` = 'Issue'

SQL (2.0ms) DELETE FROM `journal\_details` WHERE `journal\_details`.`journal\_id` = 343792

SQL (3.0ms) DELETE FROM `journals` WHERE `journals`.`id` = 343792

SQL (2.0ms) DELETE FROM `time\_entries` WHERE `time\_entries`.`issue\_id` = 17669

SQL (2.0ms) DELETE FROM `issue\_relations` WHERE `issue\_relations`.`issue\_from\_id` = 17669

SQL (3.0ms) DELETE FROM `issue\_relations` WHERE `issue\_relations`.`issue\_to\_id` = 17669

Issue Load (2.0ms) SELECT `lft`, `rgt`, `parent\_id` FROM `issues` WHERE `issues`.`id` = 17669 LIMIT 1 FOR UPDATE

Issue Load (725.0ms) SELECT id FROM `issues` WHERE (`lft` >= 1) FOR UPDATE

Issue Load (3.0ms) SELECT `issues`.\* FROM `issues` WHERE `issues`.`root\_id` = 17669 AND (`issues`.`lft` >= 1 AND `issues`.`rgt` <= 2) AND (`issues`.`id` != 17669) ORDER BY `issues`.`lft`

SQL (3.0ms) UPDATE `issues` SET `lft` = (`lft` - 2) WHERE `issues`.`root\_id` = 17669 AND (`lft` > 2) ORDER BY `issues`.`lft`

SQL (2.0ms) UPDATE `issues` SET `rgt` = (`rgt` - 2) WHERE `issues`.`root\_id` = 17669 AND (`rgt` > 2) ORDER BY `issues`.`lft`

Issue Load (4.0ms) SELECT `issues`.\* FROM `issues` WHERE `issues`.`id` = 17669 LIMIT 1

Attachment Load (3.0ms) SELECT `attachments`.\* FROM `attachments` WHERE `attachments`.`container\_id` = 17669 AND

```
`attachments`.`container_type` = 'Issue' ORDER BY attachments.created_on ASC, attachments.id ASC
SQL (5.0ms) DELETE FROM `custom_values` WHERE `custom_values`.`customized_id` = 17669 AND
`custom_values`.`customized_type` = 'Issue'
SQL (2.0ms) DELETE FROM `watchers` WHERE `watchers`.`watchable_id` = 17669 AND `watchers`.`watchable_type` = 'Issue'
Changeset Load (10.0ms) SELECT `changesets`.* FROM `changesets` INNER JOIN `changesets_issues` ON `changesets`.`id` =
`changesets_issues`.`changeset_id` WHERE `changesets_issues`.`issue_id` = 17669 ORDER BY changesets.committed_on ASC,
changesets.id ASC
SQL (3.0ms) DELETE FROM `issues` WHERE (`issues`.`id` = 17669 AND `issues`.`lock_version` = 1)
(9.0ms) COMMIT
```

Redirected to <http://localhost:3001/projects/demoproject/issues>

Completed 302 Found in 36813ms (ActiveRecord: 808.0ms)

We have two lines may be cause deadlock (I guess that)

```
| Issue Load (725.0ms) SELECT id FROM `issues` WHERE (`lft` >= 1) FOR UPDATE
```

This query lock table and cost too much time.

```
| Issue Load (3.0ms) SELECT `issues`.* FROM `issues` WHERE `issues`.`root_id` = 17669 AND (`issues`.`lft` >= 1 AND
`issues`.`rgt` <= 2) AND (`issues`.`id` != 17669) ORDER BY `issues`.`lft`
```

And this query always return empty result.

Thanks for your support.

## Associated revisions

**Revision 12445 - 2013-12-22 16:49 - Jean-Philippe Lang**

Fixed slow SELECT ... FOR UPDATE query when deleting an issue.

## History

**#1 - 2014-01-24 09:51 - Jean-Philippe Lang**

- Status changed from New to Closed
- Assignee set to Jean-Philippe Lang
- Target version set to 2.5.0
- Resolution set to Fixed

This was fixed in r12445 for 2.5.0. Only the deleted issues are now locked:

```
SELECT id FROM `issues` WHERE `issues`.`root_id` = 13167 AND (`lft` >= 1) ORDER BY `issues`.`lft` FOR UPDATE
```

instead of:

```
SELECT id FROM `issues` WHERE (`lft` >= 1) FOR UPDATE
```