# Redmine - Feature #17460

# MySQL 5.7 support

2014-07-15 00:10 - Sam Sheen

Status: Closed

**Priority:** Normal

Assignee: Marius BĂLTEANU

Category: Database Estimated time: 0.00 hour

Start date:

Due date:

% Done:

0%

Target version:

Resolution: Fixed

# Description

Env:

OS: Ubuntu 14.04 LTS

ruby 2.1.2p95 (2014-05-08 revision 45877) [i686-linux]

rails (4.1.4, 3.2.19) redmine-2.5.2

svn, version 1.8.9 (r1591380)

**Environment:** 

Redmine version 2.5.2.stable

Ruby version 2.1.2-p95 (2014-05-08) [i686-linux]

Rails version 3.2.19
Environment production
Database adapter Mysql2

SCM:

Subversion 1.8.9

Filesystem Redmine plugins: no plugin installed

After install mysql, redmine, I try to set DB and find a problem in mysql 5.7.

root@lenovo:/usr/local/src/redmine-2.5.2# RAILS\_ENV=production rake db:migrate

-- create\_table("attachments", {:force=>true})

rake aborted!

An error has occurred, all later migrations canceled:

Mysql2::Error: All parts of a PRIMARY KEY must be NOT NULL; if you need NULL in a key, use UNIQUE instead: CREATE TABLE `attachments` (`id` int(11) DEFAULT NULL auto\_increment PRIMARY KEY, `container\_id` int(11) DEFAULT 0 NOT NULL, `container\_type` varchar(30) DEFAULT " NOT NULL, `filename` varchar(255) DEFAULT " NOT NULL, `filesize` int(11) DEFAULT 0 NOT NULL, `content\_type` varchar(60) DEFAULT ", `digest` varchar(40) DEFAULT " NOT NULL, `downloads` int(11) DEFAULT 0 NOT NULL, `author\_id` int(11) DEFAULT 0 NOT NULL, `created\_on` datetime) ENGINE=InnoDB

Tasks: TOP => db:migrate

(See full trace by running task with --trace)

But, redmine is compatible mysql-5.6.19 and work perfectly.

Sam Sheen

## Related issues:

Related to Redmine - Defect #19344: MySQL 5.6: IssueNestedSetConcurrencyTest#... Closed

Has duplicate Redmine - Defect #28414: Does Redmine compatible with MySQL 5.7... Closed

## **Associated revisions**

# Revision 14011 - 2015-02-15 10:09 - Jean-Philippe Lang

Workaround for timestamps rounding issues with Rails4.2 and mysql5.7 that may kill user session after password is changed (#17460).

# Revision 14077 - 2015-03-14 07:31 - Toshi MARUYAMA

add MariaDB 10.0 environment to travis (#17460, #19344)

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## Revision 14085 - 2015-03-14 11:16 - Toshi MARUYAMA

add MySQL 5.6 and 5.7 environments to travis (#17460, #19344)

#### Revision 14128 - 2015-03-17 00:20 - Toshi MARUYAMA

add MariaDB 5.5 environment to travis (#17460, #19344, #19395)

## History

## #1 - 2014-08-03 13:56 - Go MAEDA

This is caused by a change of MySQL 5.7.3-m13. Please see the following URL for details.

mysql - Creating tables and problems with primary key in Rails - Stack Overflow

The workaround is included in Rails 4.1. But current Redmine is based on Rails 3.2, so it seems that we have to rely on monkey patch for now.

#### #2 - 2014-08-04 08:18 - Etienne Massip

- Target version set to Candidate for next minor release

Don't know what to do with this one, guess the patch can't be avoided?

#### #3 - 2014-11-03 09:35 - Go MAEDA

- Target version deleted (Candidate for next minor release)

Probably this issue will be resolved in Redmine 3.0.0 because it is based on Rails 4.1.

#### #4 - 2014-11-03 21:41 - Enderson Maia

Same problem here using redmine-2.6.0.

```
# mysqld --version
mysqld Ver 5.7.5-m15 for linux-glibc2.5 on x86_64 (MySQL Community Server (GPL))
# bundle exec rails --version
Rails 3.2.19
# ruby --version
ruby 2.1.2p95 (2014-05-08 revision 45877) [x86_64-linux-gnu]
```

## #5 - 2014-11-03 21:47 - Enderson Maia

If your're gonna wait for Rails 4 in Redmine 3, maybe an update to the docs to inform it's not compatible with this specific version of MySQL.

## #6 - 2014-11-11 10:15 - Jean-Philippe Lang

- Target version set to 3.0.0

Note about this incompatibillity added to RedmineInstall.

## #7 - 2015-02-15 10:12 - Jean-Philippe Lang

- Tracker changed from Defect to Feature
- Subject changed from Redmine 2.5.2 incompatible with mysql-5.7.3-m13 to MySQL 5.7 support

There are still some issues with mysql 5.7 and Rails 4.2:

- 1. it does not pass the issue concurrency test (dead locks), although the 5.7 changelog does not mention any changes to the lock mechanism
- 2. timestamps rouding issues after reload that trigger failures in AccountTest#test\_user\_with\_must\_change\_passwd\_should\_be\_able\_to\_change\_its\_password. Here is an example that shows a timestamp returning a different value after reload:

```
irb(main):044:0> u=User.first
irb(main):045:0> u.created_on = "2015-02-15 09:38:59.767393"
=> "2015-02-15 09:38:59.767393"
irb(main):046:0> u.save
=> true
irb(main):047:0> u.created_on
=> Sun, 15 Feb 2015 09:38:59 UTC +00:00
irb(main):048:0> u.reload
irb(main):049:0> u.created_on
=> Sun, 15 Feb 2015 09:39:00 UTC +00:00
```

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## #8 - 2015-02-18 13:15 - Jean-Philippe Lang

- Target version changed from 3.0.0 to Candidate for next major release

#### #9 - 2015-03-11 13:02 - Toshi MARUYAMA

Jean-Philippe Lang wrote:

1. it does not pass the issue concurrency test (dead locks), although the <u>5.7 changelog</u> does not mention

http://dev.mysgl.com/doc/refman/5.6/en/mysgl-nutshell.html

InnoDB uses a new, faster algorithm to detect deadlocks.

## #10 - 2015-03-11 13:04 - Toshi MARUYAMA

- Related to Defect #19344: MySQL 5.6: IssueNestedSetConcurrencyTest#test\_concurrency: always fails added

## #11 - 2015-03-11 13:07 - Toshi MARUYAMA

Jean-Philippe Lang wrote:

1. it does not pass the issue concurrency test (dead locks)

#19344 says MySQL 5.6 too.

## #12 - 2015-03-16 21:20 - Jean-Philippe Lang

Toshi MARUYAMA wrote:

#19344 says MySQL 5.6 too.

Indeed, the CI server runs MySQL 5.1.

I had a deeper look at the deadlocks issue and it seems to work when doing SELECT \* ... FROM UPDATE instead of SELECT id ... FOR UPDATE. Here is a patch for current trunk tested with mysql5.7, the concurrency test passes for me. Could you give it a try?

## #13 - 2015-03-16 21:20 - Jean-Philippe Lang

- File mysql5.7\_deadlocks\_fix.patch added

Run options: --seed 12276

r14128 with note-13 patch:

## #14 - 2015-03-17 13:45 - Toshi MARUYAMA

On my CentOS7 mariadb-5.5.41-2.el7\_0.x86\_64:

\$ ruby test/unit/issue\_nested\_set\_concurrency\_test.rb

clean r14128:

```
# Running:

F.

Finished in 19.053029s, 0.1050 runs/s, 0.4199 assertions/s.

1) Failure:
IssueNestedSetConcurrencyTest#test_concurrency [test/unit/issue_nested_set_concurrency_test.rb:45]:
Expected "Mysql2::Error: Deadlock found when trying to get lock;
try restarting transaction:
SELECT `issues`.`id` FROM `issues` WHERE (root_id IN (SELECT root_id FROM issues WHERE id IN (319,316)))
ORDER BY `issues`.`id` ASC FOR UPDATE" to be nil.

2 runs, 8 assertions, 1 failures, 0 errors, 0 skips
```

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```
$ ruby test/unit/issue_nested_set_concurrency_test.rb
Run options: --seed 50424
# Running:
F.
Finished in 5.455071s, 0.3666 runs/s, 1.2832 assertions/s.
 1) Failure:
IssueNestedSetConcurrencyTest#test_concurrency [test/unit/issue_nested_set_concurrency_test.rb:45]:
Expected "Mysql2::Error: Deadlock found when trying to get lock;
try restarting transaction:
SELECT `issues`.* FROM `issues` WHERE `issues`.`root_id` = 432
ORDER BY `issues`.`id` ASC FOR UPDATE" to be nil.
2 runs, 7 assertions, 1 failures, 0 errors, 0 skips
#15 - 2015-03-17 17:37 - Toshi MARUYAMA
This change passes test half times, but fails half times on my MariaDB 5.5.
diff --git a/lib/redmine/nested_set/issue_nested_set.rb b/lib/redmine/nested_set/issue_nested_set.rb
--- a/lib/redmine/nested_set/issue_nested_set.rb
+++ b/lib/redmine/nested_set/issue_nested_set.rb
@@ -158,7 +158,8 @@ module Redmine
           self.class.reorder(:id).where(:root_id => sets_to_lock).lock(lock).ids
         else
           sets_to_lock = [id, parent_id].compact
           self.class.reorder(:id).where("root_id IN (SELECT root_id FROM #{self.class.table_name} WHERE id IN
(?))", sets_to_lock).lock.ids
           root_ids = self.class.where(:id => sets_to_lock).select(:root_id).to_a
           self.class.where(:root_id => root_ids).lock.ids
       end
$ ruby test/unit/issue_nested_set_concurrency_test.rb
Run options: --seed 63128
# Running:
Finished in 25.875842s, 0.0773 runs/s, 0.3865 assertions/s.
2 runs, 10 assertions, 0 failures, 0 errors, 0 skips
$ ruby test/unit/issue_nested_set_concurrency_test.rb
Run options: --seed 40861
# Running:
FF
Finished in 6.222392s, 0.3214 runs/s, 0.6428 assertions/s.
 1) Failure:
IssueNestedSetConcurrencyTest#test_concurrency [test/unit/issue_nested_set_concurrency_test.rb:45]:
Expected "Mysql2::Error: Deadlock found when trying to get lock; try restarting transaction:
UPDATE `issues` SET 1ft = CASE WHEN 1ft > 9 THEN 1ft - 2 ELSE 1ft END, rgt = CASE WHEN rgt > 9 THEN rgt - 2 EL
SE rgt END WHERE `issues`.`root_id` = 4249 AND (lft > 9 OR rgt > 9)" to be nil.
 2) Failure:
IssueNestedSetConcurrencyTest#test_concurrent_subtasks_creation [test/unit/issue_nested_set_concurrency_test.r
Expected "Mysql2::Error: Deadlock found when trying to get lock; try restarting transaction:
UPDATE `issues` SET lft = CASE WHEN lft >= 18 THEN lft + 2 ELSE lft END, rgt = CASE WHEN rgt >= 18 THEN rgt +
2 ELSE rgt END WHERE `issues`.`root_id` = 4263 AND (lft \geq 18 OR rgt \geq 18)" to be nil.
```

# #16 - 2015-03-17 18:53 - Jean-Philippe Lang

Toshi, your patch does not do what it's supposed to.

2 runs, 4 assertions, 2 failures, 0 errors, 0 skips

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```
You may want to write:
```

```
root_ids = self.class.where(:id => sets_to_lock).pluck(:root_id)
instead of:
root_ids = self.class.where(:id => sets_to_lock).select(:root_id).to_a
which returns records without their ids. The lock after that does nothing:
SELECT `issues`.`id` FROM `issues` WHERE `issues`.`root_id` IS NULL FOR UPDATE
```

# #17 - 2015-03-17 19:07 - Jean-Philippe Lang

I've isolated the log for a thread that triggers a dead lock. It ends with:

```
[52206168] BEGIN
[52206168] SELECT 'issues'.* FROM 'issues' WHERE 'issues'.'id' = 781 LIMIT 1
[52206168] SELECT 'issues'.'id' FROM 'issues' WHERE 'issues'.'root_id' = 778 ORDER BY 'issues'.'id' ASC FOR U
PDATE
[52206168] ROLLBACK
[52206168] ERROR: Mysql2::Error: Deadlock found when trying to get lock; try restarting transaction:
SELECT 'issues'.'id' FROM 'issues' WHERE 'issues'.'root_id' = 778 ORDER BY 'issues'.'id' ASC FOR UPDATE
```

As we can see, the thread starts a transaction, has no lock yet and gets a dead lock error on the first lock. Anyone knows what would explain that?

#### #18 - 2015-03-17 20:00 - Toshi MARUYAMA

Jean-Philippe Lang wrote:

Toshi, your patch does not do what it's supposed to.

You may want to write:

```
root_ids = self.class.where(:id => sets_to_lock).pluck(:root_id)
```

instead of:

```
root_ids = self.class.where(:id => sets_to_lock).select(:root_id).to_a
```

which returns records without their ids. The lock after that does nothing:

SELECT 'issues'.'id' FROM 'issues' WHERE 'issues'.'root\_id' IS NULL FOR UPDATE

This changes fails 3/4 times.

```
diff --git a/lib/redmine/nested_set/issue_nested_set.rb b/lib/redmine/nested_set/issue_nested_set.rb
 -- a/lib/redmine/nested_set/issue_nested_set.rb
+++ b/lib/redmine/nested_set/issue_nested_set.rb
@@ -158,7 +158,8 @@ module Redmine
           self.class.reorder(:id).where(:root_id => sets_to_lock).lock(lock).ids
           sets_to_lock = [id, parent_id].compact
           self.class.reorder(:id).where("root_id IN (SELECT root_id FROM #{self.class.table_name} WHERE id IN
(?))", sets_to_lock).lock.ids
          root_ids = self.class.where(:id => sets_to_lock).pluck(:root_id).compact.uniq
           self.class.where(:root_id => root_ids).lock.ids
         end
       end
$ ruby test/unit/issue_nested_set_concurrency_test.rb
Run options: --seed 1553
# Running:
Finished in 20.314407s, 0.0985 runs/s, 0.4430 assertions/s.
1) Failure:
IssueNestedSetConcurrencyTest#test_concurrency [test/unit/issue_nested_set_concurrency_test.rb:45]:
Expected "Mysql2::Error: Deadlock found when trying to get lock; try restarting transaction: SELECT `issues`.`
id` FROM `issues` WHERE `issues`.`root_id` = 7049 FOR UPDATE" to be nil.
```

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## #19 - 2015-03-18 05:10 - Toshi MARUYAMA

"SET SESSION TRANSACTION ISOLATION LEVEL SERIALIZABLE;" reduces failure times on my MariaDB 5.5.

#### #20 - 2015-03-18 06:29 - Toshi MARUYAMA

This is code from source:tags/2.6.3/lib/plugins/awesome\_nested\_set/lib/awesome\_nested\_set/model/transactable.rb.

```
diff --git a/lib/redmine/nested_set/issue_nested_set.rb b/lib/redmine/nested_set/issue_nested_set.rb
 -- a/lib/redmine/nested_set/issue_nested_set.rb
+++ b/lib/redmine/nested_set/issue_nested_set.rb
@@ -148,7 +148,29 @@ module Redmine
        new_record? || !is_or_is_ancestor_of?(issue)
      end
+
      def in_tenacious_transaction(&block)
         retry_count = 0
+
        begin
          transaction(&block)
         rescue ActiveRecord::StatementInvalid => error
          raise unless error.message =~ /Deadlock found when trying to get lock/
           raise unless retry_count < 10
          retry_count += 1
          logger.info "Deadlock detected on retry #{retry_count}, restarting transaction"
          sleep(rand(retry_count)*0.1) # Aloha protocol
         end
      end
      def lock_nested_set
+
        if self.class.connection.adapter_name =~ /mysql/i
          in_tenacious_transaction { lock_nested_set_in_tenacious_transaction }
          lock_nested_set_in_tenacious_transaction
        end
       end
       def lock_nested_set_in_tenacious_transaction
        if self.class.connection.adapter_name =~ /sqlserver/i
           lock = "WITH (ROWLOCK HOLDLOCK UPDLOCK)"
           # Custom lock for SOLServer
```

## #21 - 2015-03-18 07:07 - Toshi MARUYAMA

Note-20 is wrong because it uses nested transaction and parent transaction does not use lock.

This is fix.

```
diff --git a/lib/redmine/nested_set/issue_nested_set.rb b/lib/redmine/nested_set/issue_nested_set.rb
--- a/lib/redmine/nested_set/issue_nested_set.rb
+++ b/lib/redmine/nested_set/issue_nested_set.rb
@@ -148,7 +148,29 @@ module Redmine
        new_record? || !is_or_is_ancestor_of?(issue)
      def get_lock_mysql(&block)
        retry_count = 0
+
        begin
         rescue ActiveRecord::StatementInvalid => error
          raise unless error.message =~ /Deadlock found when trying to get lock/
          raise unless retry_count < 10
          retry_count += 1
           logger.info "Deadlock detected on retry #{retry_count}, restarting transaction"
          sleep(rand(retry_count)*0.1) # Aloha protocol
          retry
        end
      end
      def lock_nested_set
        if self.class.connection.adapter_name =~ /mysql/i
+
          get_lock_mysql { get_lock }
        else
          get_lock
```

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```
+ end
+ end
+
+ def get_lock
   if self.class.connection.adapter_name =~ /sqlserver/i
      lock = "WITH (ROWLOCK HOLDLOCK UPDLOCK)"
   # Custom lock for SQLServer
```

#### #22 - 2015-03-18 08:23 - Jean-Philippe Lang

Toshi, the idea of the implementation of nested sets in 3.0.0 is to start the transaction by locking all the rows that might be updated or used to compute shifts in the transaction, in order by prevent dead locks and inconsistencies. I won't commit that workaround until I figure out why it doesn't work as I expect (note-17) in recent versions of MySQL.

## #23 - 2015-03-19 05:00 - Toshi MARUYAMA

I think MySQL uses **Gap Locks**, so we cannot avoid deadlock. http://dev.mysgl.com/doc/refman/5.6/en/innodb-record-level-locks.html#idm140169015854080

I tried **READ COMMITTED** on MariaDB 5.5, but deadlock raised. I don't know the reason.

## #24 - 2017-02-01 18:28 - Dave Martin

Do current versions of Redmine still not support MySQL 5.7?

## #25 - 2017-03-21 16:38 - Toshi MARUYAMA

#23318#note-18 patch reduces test failure times from about 100% to 50% on my CentOS7 mariadb-5.5.52-1.el7.x86\_64.

#### #26 - 2017-04-21 18:11 - Stephane Evr

Latest versions of Ubuntu server only provide the 5.7 package, version 5.5 is really difficult to install on it: <a href="https://askubuntu.com/questions/763240/is-it-possible-to-install-mysql-5-5-or-5-6-on-ubuntu-16-04">https://askubuntu.com/questions/763240/is-it-possible-to-install-mysql-5-5-or-5-6-on-ubuntu-16-04</a>

## #27 - 2017-04-23 15:45 - Stephane Evr

Here are some logs from MySQL 5.7:

```
mysql> select * FROM INNODB_LOCKS \G;
        ************* 1. row ***************
   lock_id: 56163:265:12:54
lock_trx_id: 56163
 lock mode: X
 lock_type: RECORD
 lock_table: `redmine_test`.`issues`
 lock_index: index_issues_on_root_id_and_lft_and_rgt
 lock_space: 265
 lock_page: 12
  lock_rec: 54
  lock_data: 653, 1, 20, 653
************************* 2. row ******************
   lock_id: 56159:265:12:54
lock_trx_id: 56159
 lock_mode: X
  lock_type: RECORD
 lock_table: `redmine_test`.`issues`
lock_index: index_issues_on_root_id_and_lft_and_rgt
 lock_space: 265
 lock_page: 12
  lock_rec: 54
  lock_data: 653, 1, 20, 653
2 rows in set, 1 warning (0.00 sec)
mysql> SHOW ENGINE INNODB STATUS \G;
LATEST DETECTED DEADLOCK
2017-04-23 14:38:12 0x7f308c273700
*** (1) TRANSACTION:
TRANSACTION 56161, ACTIVE 0 sec starting index read
mysql tables in use 2, locked 1
LOCK WAIT 2 lock struct(s), heap size 1136, 1 row lock(s)
MySQL thread id 9, OS thread handle 139846486136576, query id 1081 localhost root Sending data
SELECT `issues`.`id` FROM `issues` WHERE (root_id IN (SELECT root_id FROM issues WHERE id IN (658,655))) ORDE
```

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# #28 - 2017-04-24 13:11 - Stephane Evr

\*\*\* WE ROLL BACK TRANSACTION (1)

Should we put the index on :issues => [:root\_id, :lft, :rgt] as unique? I think this would play a role in the number of records being locked when we do something such as:

```
In remove_from_nested_set:
self.class.where(:root_id => root_id).where("lft >= ? AND rgt <= ?", lft, rgt).update_all(...)
In add_to_nested_set:
self.class.where(:root_id => root_id).where("lft >= ? OR rgt >= ?", lft, lft).update_all(...)
```

Or is a reorder needed before the update\_all clause?

## #29 - 2017-05-18 22:22 - Mark Anderson

Am about to make the move to Ubuntu 16.04. Can I install Redmine 3.3 and stick with MySQL 5.7 now?

## #30 - 2017-05-18 22:56 - Deoren Moor

Mark Anderson wrote:

Am about to make the move to Ubuntu 16.04. Can I install Redmine 3.3 and stick with MySQL 5.7 now?

For what it is worth, we have been using an Ubuntu 16.04 + MariaDB 10.0.x setup for over six months now without any obvious issues.

- web server: Ubuntu 16.04, nginx/Passenger, mysql-client 5.7.x
- database server: MariaDB 10.0.x

# #31 - 2017-05-19 12:42 - Pavel Rosický

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Stéphane Thomas Evr - Hi, the index on :issues => [:root\_id, :lft, :rgt] should be definitely unique.

To avoid duplicate entries during shifts I added an additional reorder statment:

```
remove_from_nested_set
.reorder('lft desc')
add_to_nested_set
.reorder('lft asc')
```

but it didn't help anyway, I think it's because shifts are overlapping, especially during creating & deleting records at the same time.

unfortunatelly awesome\_nested\_set has the same issue

locking all issues instead of subtree works correctly (no deadlocks), but it should be definitely avoided for performance reasons self.class.reorder(:id).lock

log

#### # Running:

```
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107872360
Deadlock detected on update, restarting transaction retry #1 thread: 107872360
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863660
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107872360
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #2 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107872360
Deadlock detected on update, restarting transaction retry #1 thread: 107872360
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on update, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863660
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107872360
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863660
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107872360
Finished in 14.603111s, 0.1370 runs/s, 0.6848 assertions/s.
2 runs, 10 assertions, 0 failures, 0 errors, 0 skips
```

# #32 - 2018-08-08 10:39 - yossi edri

Hi,

what is the highest tested version of MySql that is supported in Redmine 3.x - 4.x thanks

yossi edri wrote:

Hi,

what is the highest tested version of MySql that is supported in Redmine 3.x - 4.x

Salam

redmine 3.2 work by last version of mysql but redmine 3.3 and higher not work well with mysql 5.5 or higher

## #34 - 2018-08-25 18:14 - Alexandr Kirilov

Just installed Redmine in following ports for FreeBSD. There are included mysql56, and the lowest version available from ports is mysql55. I've been trying Redmine with mysql80. Seems working for the case of mysql. But I got this issue - <a href="http://www.redmine.org/boards/2/topics/55693">http://www.redmine.org/boards/2/topics/55693</a>.

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### #35 - 2018-10-16 18:12 - Thomas Löber

Does it make sense to retry the transaction inside the Issue class?

In app/models/issue.rb:

```
def self.transaction(options={}, &block)
  retry_count = 0
  begin
    super
  rescue ActiveRecord::StatementInvalid => error
    raise if connection.adapter_name !~ /mysql/i
    raise if error.message !{\hspace{1pt}^\sim}{} /Deadlock found when trying to get lock/
    raise if retry_count == 10
    retry_count += 1
    wait_ms = rand(retry_count * 100)
    if logger
      logger.info("Deadlock found when saving \#\{self\}: "
        "Waiting for #{wait_ms} ms before restarting the transaction (retry ##{retry_count})")
    sleep(wait_ms / 1000.0)
    retry
  end
```

## #36 - 2019-01-08 06:37 - Marius BĂLTEANU

- Has duplicate Defect #28414: Does Redmine compatible with MySQL 5.7 or not ? added

## #37 - 2019-01-08 07:23 - Marius BĂLTEANU

Even if the problem with deadlocks still exists on MySQL 5.7, I think that it is safe to say that Redmine 4.0 officially supports MySQL 5.7 and to close this issue.

CI server run the tests on MySQL 5.7 and the install documentation has been updated.

What do you think?

## #38 - 2019-01-09 17:54 - Deoren Moor

Even if the problem with deadlocks still exists on MySQL 5.7, I think that it is safe to say that Redmine 4.0 officially supports MySQL 5.7 and to close this issue.

CI server run the tests on MySQL 5.7 and the install documentation has been updated.

What do you think?

Loose tangent: Does the same also apply to MariaDB? FWIW, I've run Redmine on MariaDB 10.0 for years without (apparent) issue, hoping to upgrade to a newer MariaDB release in the near future.

# #39 - 2019-01-10 03:05 - Marius BĂLTEANU

Deoren Moor wrote:

Even if the problem with deadlocks still exists on MySQL 5.7, I think that it is safe to say that Redmine 4.0 officially supports MySQL 5.7 and to close this issue.

CI server run the tests on MySQL 5.7 and the install documentation has been updated.

What do you think?

Loose tangent: Does the same also apply to MariaDB? FWIW, I've run Redmine on MariaDB 10.0 for years without (apparent) issue, hoping to upgrade to a newer MariaDB release in the near future.

No, it applies only to MySQL 5.7. MariaDB is not supported (or at least officially) and an user reported some failing tests (please see #30367).

## #40 - 2020-04-05 18:07 - Toshi MARUYAMA

Marius BALTEANU wrote:

Even if the problem with deadlocks still exists on MySQL 5.7, I think that it is safe to say that Redmine 4.0 officially supports MySQL 5.7 and to

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close this issue.

CI server run the tests on MySQL 5.7 and the install documentation has been updated.

What do you think?

Tests skip on MySQL (r16926).

## #41 - 2020-04-05 18:14 - Marius BĂLTEANU

Toshi MARUYAMA wrote:

Marius BALTEANU wrote:

Even if the problem with deadlocks still exists on MySQL 5.7, I think that it is safe to say that Redmine 4.0 officially supports MySQL 5.7 and to close this issue

CI server run the tests on MySQL 5.7 and the install documentation has been updated.

What do you think?

Tests skip on MySQL (r16926).

Yes, but the CI uses MySQL 5.7 so is quite strange to say we do not support MySQL 5.7, but we run the tests against MySQL 5.7.

#### #42 - 2023-05-24 10:08 - Ivan Cenov

Newer versions of MySQL, after 5.7 are still not applicable? MySQL 8.x.x etc? Also does mysql2 gem support higher versions of MySQL?

#### #43 - 2023-10-23 20:08 - Marius BĂLTEANU

- Status changed from New to Closed
- Assignee set to Marius BĂLTEANU
- Target version deleted (Candidate for next major release)
- Resolution set to Fixed

MySQL 5.7 is supported for some time with a known concurrency issue (Mysql2::Error: Deadlock found when trying to get lock; try restarting transaction). I'm closing this.

## #44 - 2023-11-21 00:01 - Marius BĂLTEANU

This concurrency issue is fixed in the upcoming Redmine <u>5.1.1</u> (it will be released soon) and <u>6.0.0</u>, but it may require some changes to the database settings, please see all the comments from <u>#39437</u> and the <u>MySQL\_configuration</u> page.

## **Files**

mysql5.7_deadlocks_fix.patch	1.54 KB	2015-03-16	Jean-Philippe Lang
issue_nested_set.rb.patch	4.86 KB	2017-05-19	Pavel Rosický

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