

Redmine - Defect #35927

Slow loading of /time_entries/new

2021-09-28 13:05 - Mark J

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Go MAEDA	% Done:	0%
Category:	Performance	Estimated time:	0.00 hour
Target version:	6.1.0	Affected version:	4.2.1
Resolution:	Fixed		
Description			
Opening /time_entries/new takes 10s, when we have 1000 users with 2 different groups that one has ~10 users and other has all other users.			
I have looked into code and it seems I have found the issue, attaching additional info via screens. Basically if project has a lot of users `assignable_users` enumerates each users permissions by one, creating 2*X (X=number users) sql queries.			
I'm hosting redmine with help of docker official image.			
Environment:			
Redmine version	4.2.1.stable		
Ruby version	2.7.4-p191 (2021-07-07) [x86_64-linux]		
Rails version	5.2.5		
Environment	debug		
Database adapter	SQLServer		
Mailer queue	ActiveJob::QueueAdapters::AsyncAdapter		
Mailer delivery	smtp		
SCM:			
Subversion	1.10.4		
Mercurial	4.8.2		
Bazaar	2.8.0		
Git	2.20.1		
Filesystem			
Redmine plugins:			
no plugin installed			

Associated revisions

Revision 23595 - 2025-04-02 11:22 - Go MAEDA

Improve performance of `TimeEntry#assignable_users` by reducing SQL queries (#35927).

Patch by Go MAEDA (user:maeda).

History

#1 - 2021-10-03 07:41 - Marius BĂLTEANU

- Status changed from New to Confirmed

- Assignee set to Marius BĂLTEANU

#2 - 2025-02-02 14:09 - Go MAEDA

- File 35927.patch added

- Target version set to Candidate for next minor release

The attached patch should fixes the issue.

Below are the results tested on a project with 7 members.

Current code:

```
redmine-app(dev)> t = TimeEntry.first
TimeEntry Load (0.1ms) SELECT "time_entries".* FROM "time_entries" ORDER BY "time_entries"."id" ASC LIMIT ?
[["LIMIT", 1]]
```

```

=>
#<TimeEntry:0x000000016c1f2df0
...
redmine-app(dev)> t.assignable_users
Project Load (0.1ms) SELECT "projects".* FROM "projects" WHERE "projects"."id" = ? LIMIT ? [{"id", 1}, ["LIMIT", 1]]
Member Load (0.1ms) SELECT "members".* FROM "members" INNER JOIN "users" ON "users"."id" = "members"."user_id" WHERE "members"."project_id" = ? AND "users"."type" = ? AND "users"."status" = ? AND "users"."status" = ? [{"project_id", 1}, {"type", "User"}, {"status", 1}, {"status", 1}]
User Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."type" = ? AND "users"."id" IN (?, ?, ?, ?, ?, ?, ?) [{"type", "User"}, {"id", 2}, {"id", 3}, {"id", 1}, {"id", 4}, {"id", 7}, {"id", 8}, {"id", 9}]
EnabledModule Pluck (0.4ms) SELECT "enabled_modules"."name" FROM "enabled_modules" WHERE "enabled_modules"."project_id" = ? [{"project_id", 1}]
Member Load (0.1ms) SELECT "members".* FROM "members" INNER JOIN "projects" ON "projects"."id" = "members"."project_id" WHERE "members"."user_id" = ? AND "projects"."status" != ? AND "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT ? [{"user_id", 2}, {"status", 9}, {"project_id", 1}, {"LIMIT", 1}]
Role Load (0.1ms) SELECT DISTINCT "roles".* FROM "roles" INNER JOIN "member_roles" ON "roles"."id" = "member_roles"."role_id" WHERE "member_roles"."member_id" = ? [{"member_id", 1}]
Member Load (0.2ms) SELECT "members".* FROM "members" INNER JOIN "projects" ON "projects"."id" = "members"."project_id" WHERE "members"."user_id" = ? AND "projects"."status" != ? AND "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT ? [{"user_id", 3}, {"status", 9}, {"project_id", 1}, {"LIMIT", 1}]
Role Load (0.0ms) SELECT DISTINCT "roles".* FROM "roles" INNER JOIN "member_roles" ON "roles"."id" = "member_roles"."role_id" WHERE "member_roles"."member_id" = ? [{"member_id", 2}]
Member Load (0.0ms) SELECT "members".* FROM "members" INNER JOIN "projects" ON "projects"."id" = "members"."project_id" WHERE "members"."user_id" = ? AND "projects"."status" != ? AND "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT ? [{"user_id", 4}, {"status", 9}, {"project_id", 1}, {"LIMIT", 1}]
Role Load (0.0ms) SELECT DISTINCT "roles".* FROM "roles" INNER JOIN "member_roles" ON "roles"."id" = "member_roles"."role_id" WHERE "member_roles"."member_id" = ? [{"member_id", 38}]
Member Load (0.0ms) SELECT "members".* FROM "members" INNER JOIN "projects" ON "projects"."id" = "members"."project_id" WHERE "members"."user_id" = ? AND "projects"."status" != ? AND "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT ? [{"user_id", 7}, {"status", 9}, {"project_id", 1}, {"LIMIT", 1}]
Role Load (0.0ms) SELECT DISTINCT "roles".* FROM "roles" INNER JOIN "member_roles" ON "roles"."id" = "member_roles"."role_id" WHERE "member_roles"."member_id" = ? [{"member_id", 39}]
Member Load (0.0ms) SELECT "members".* FROM "members" INNER JOIN "projects" ON "projects"."id" = "members"."project_id" WHERE "members"."user_id" = ? AND "projects"."status" != ? AND "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT ? [{"user_id", 8}, {"status", 9}, {"project_id", 1}, {"LIMIT", 1}]
Role Load (0.0ms) SELECT DISTINCT "roles".* FROM "roles" INNER JOIN "member_roles" ON "roles"."id" = "member_roles"."role_id" WHERE "member_roles"."member_id" = ? [{"member_id", 40}]
Member Load (0.0ms) SELECT "members".* FROM "members" INNER JOIN "projects" ON "projects"."id" = "members"."project_id" WHERE "members"."user_id" = ? AND "projects"."status" != ? AND "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT ? [{"user_id", 9}, {"status", 9}, {"project_id", 1}, {"LIMIT", 1}]
Role Load (0.0ms) SELECT DISTINCT "roles".* FROM "roles" INNER JOIN "member_roles" ON "roles"."id" = "member_roles"."role_id" WHERE "member_roles"."member_id" = ? [{"member_id", 41}]
AnonymousUser Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."type" = ? AND "users"."lastname" = ? LIMIT ? [{"type", "AnonymousUser"}, {"lastname", "Anonymous"}, {"LIMIT", 1}]

```

With the patch applied:

```

redmine-app(dev)> t = TimeEntry.first
TimeEntry Load (0.4ms) SELECT "time_entries".* FROM "time_entries" ORDER BY "time_entries"."id" ASC LIMIT ? [{"LIMIT", 1}]
=>
#<TimeEntry:0x000000030b457f00
...
redmine-app(dev)> t.assignable_users
Project Load (0.4ms) SELECT "projects".* FROM "projects" WHERE "projects"."id" = ? LIMIT ? [{"id", 1}, ["LIMIT", 1]]
Member Load (0.3ms) SELECT "members".* FROM "members" INNER JOIN "users" ON "users"."id" = "members"."user_id" WHERE "members"."project_id" = ? AND "users"."type" = ? AND "users"."status" = ? AND "users"."status" = ? [{"project_id", 1}, {"type", "User"}, {"status", 1}, {"status", 1}]
MemberRole Load (0.1ms) SELECT "member_roles".* FROM "member_roles" WHERE "member_roles"."member_id" IN (?, ?, ?, ?, ?, ?) [{"member_id", 1}, {"member_id", 2}, {"member_id", 37}, {"member_id", 38}, {"member_id", 39}, {"member_id", 40}, {"member_id", 41}]
Role Load (0.1ms) SELECT DISTINCT "roles".* FROM "roles" WHERE "roles"."id" IN (?, ?) [{"id", 1}, {"id", 2}]
User Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."type" = ? AND "users"."id" IN (?, ?, ?, ?, ?, ?, ?) [{"type", "User"}, {"id", 2}, {"id", 3}, {"id", 1}, {"id", 4}, {"id", 7}, {"id", 8}, {"id", 9}]
AnonymousUser Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."type" = ? AND "users"."lastname" = ? LIMIT ? [{"type", "AnonymousUser"}, {"lastname", "Anonymous"}, {"LIMIT", 1}]

```

#3 - 2025-02-05 08:35 - Go MAEDA

- Target version changed from Candidate for next minor release to 5.1.7

Setting the target version to 5.1.7.

#4 - 2025-02-09 08:24 - Go MAEDA

- File 35927-v2.patch added

I have updated the patch to properly sort users.

#5 - 2025-03-02 08:28 - Go MAEDA

- Target version changed from 5.1.7 to 5.1.8

#6 - 2025-03-29 14:45 - Marius BĂLTEANU

- Assignee changed from Marius BĂLTEANU to Go MAEDA

#7 - 2025-04-02 11:23 - Go MAEDA

- Status changed from Confirmed to Closed

- Target version changed from 5.1.8 to 6.1.0

- Resolution set to Fixed

Committed the patch in [r23595](#).

#8 - 2025-04-15 08:13 - Go MAEDA

- Category changed from Time tracking to Performance

Files

ConEmu64_UubTYutl5G.png	579 KB	2021-09-28	Mark J
Code_jzSYRAKaoR.png	77.2 KB	2021-09-28	Mark J
35927.patch	739 Bytes	2025-02-02	Go MAEDA
35927-v2.patch	746 Bytes	2025-02-09	Go MAEDA