

## Redmine - Patch #33664

### evaluate acts\_as\_activity\_provider's scope lazily

2020-06-24 12:56 - Pavel Rosický

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Go MAEDA	<b>% Done:</b>	0%
<b>Category:</b>	Performance	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	4.2.0		
<b>Description</b>			
acts_as_activity_provider's scope is evaluated at require time, we should build the scope after it's actually used			

#### Associated revisions

##### Revision 20148 - 2020-10-17 04:02 - Go MAEDA

Evaluate acts\_as\_activity\_provider's scope lazily (#33664).

Patch by Pavel Rosický.

#### History

##### #1 - 2020-06-27 08:52 - Go MAEDA

Would you tell me how the patch will change the performance or user experience?

##### #2 - 2020-06-27 17:11 - Pavel Rosický

sure, building a new scope is an expensive operation [https://github.com/rails/rails/blob/5-2-stable/activerecord/lib/active\\_record/scoping/named.rb#L14](https://github.com/rails/rails/blob/5-2-stable/activerecord/lib/active_record/scoping/named.rb#L14)

in this case, the scope for acts\_as\_activity\_provider should be used after someone asks to get activities on issues for instance

however, right now we have to build a new scope when someone asks to require an issue object. This problem is usually hidden because Rails also does have an autoloading feature (at least in development mode).

before the patch, it does happen

1/ after autoloading an object model, let's say for opening an issue's detail shouldn't be necessary to build a scope for issue's activities, it's still too early

2/ in production mode due to eager loading

3/ if you have a simple plugin with a model patch (like issue\_patch.rb). In this case, you have to always load the model (issue.rb) at start-up time

let's defer such operations as late as possible.

after the patch

I do register a proc which doesn't evaluate its content at require time and call it only when we need it (after someone asks for activities)

[https://github.com/redmine/redmine/blob/907e0173e40b31d8d0e696b15b18777af98ec9da/lib/plugins/acts\\_as\\_activity\\_provider/lib/acts\\_as\\_activity\\_provider.rb#L54](https://github.com/redmine/redmine/blob/907e0173e40b31d8d0e696b15b18777af98ec9da/lib/plugins/acts_as_activity_provider/lib/acts_as_activity_provider.rb#L54)

this patch won't give you a better runtime performance, but it could improve startup time in some situations

note that for the same reason Rails also does define scopes lazily

<https://github.com/redmine/redmine/blob/master/app/models/issue.rb#L86>

- correct  
scope :recently\_updated, lambda { order(:updated\_on => :desc) }
- wrong  
scope :recently\_updated, order(:updated\_on => :desc)

that's what is this change about.

**#3 - 2020-07-04 03:08 - Go MAEDA**

- Target version set to Candidate for next major release

**#4 - 2020-09-20 07:57 - Go MAEDA**

- Target version changed from Candidate for next major release to 4.2.0

Setting the target version to 4.2.0.

**#5 - 2020-09-28 11:33 - Go MAEDA**

- File *acts\_as\_activity\_provider-v2.patch* added

Updated the patch to fix some RuboCop offenses.

**#6 - 2020-10-17 04:02 - Go MAEDA**

- Status changed from New to Closed
- Assignee set to Go MAEDA

Committed the patch. Thank you.

**Files**

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acts_as_activity_provider.patch	11.4 KB	2020-06-24	Pavel Rosický
acts_as_activity_provider-v2.patch	9.92 KB	2020-09-28	Go MAEDA