

## Redmine - Patch #37065

### When someone is member of watcher group, 'watched\_by' may be wrong and incomplete

2022-05-01 14:51 - salman mp

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Marius BALTEANU	<b>% Done:</b>	0%
<b>Category:</b>	Email notifications	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	5.0.2		
<b>Description</b>			
Suppose that 'user' is member of 'group'. Result of issue.watched_by is limited to those issues that 'user' is watcher of theme, and those issues that 'group' is watchers of them and 'user' is no watcher, excluded.			
Related to #4511			
<b>Related issues:</b>			
Related to Redmine - Feature # 4511: Allow adding user groups as watchers for...		<b>Closed</b>	<b>2010-01-01</b>

#### Associated revisions

##### Revision 21661 - 2022-06-20 07:53 - Marius BALTEANU

Respect group memberships when checking if an object is watched (#37065).

Patch Holger Just.

##### Revision 21667 - 2022-06-20 17:18 - Marius BALTEANU

Merged r21661 to 5.0-stable (#37065).

#### History

##### #1 - 2022-05-01 15:16 - salman mp

- File `count_group_watchers_v2.patch` added

##### #2 - 2022-05-02 14:05 - Holger Just

- Related to Feature #4511: Allow adding user groups as watchers for issues added

##### #3 - 2022-06-16 17:48 - Holger Just

- File `0001-Respect-group-memberships-when-checking-if-an-object.patch` added

- Target version set to Candidate for next minor release

Attached is a patch against current trunk which fixes this behavior. The patch was extracted from [Planio](#).

The patch is more exhaustive than the previous ones by Salman:

- It avoid having to load all groups as AR records
- It also patches the instance `watched_by?` method to match the behavior of the scope.
- It adds a test :)

I have also updated the parameter name of the `watched_by` scope to make it clear that it accepts a principal (either a user or group), rather than a

numeric ID. Previously, the method accepted both types. In all call-sites within Redmine however, only a user or group object is ever passed here, never a numeric ID.

With that being said, the way the scope is implemented, it will perform some SQL queries already when building the scope to get the groups of the passed user. This might be undesirable, e.g. if there are updates here which might affect the final query between building the scope and executing it. An alternative to the scope in the attached patch would thus be the following scope which builds a fully self-contained query where all data is only resolved during its execution:

```
scope :watched_by, lambda { |user_id|
  # Basic case: return objects watched by the queried principal
  scope = where("#{Watcher.table_name}.user_id = ?", user_id)

  # If the principal is not a group (i.e. either a User or the id of
  # either a User or Group)...
  unless user_id.is_a?(Group)
    # ... we make sure that the given id belongs to an actual User...
    if user_id.is_a?(Integer)
      is_user = where(User.where(id: user_id).arel.exists)
    else
      is_user = self
    end

    # ... and finally allow objects which are either watched by the
    # user (base case above) or by any group the user is a member of
    scope = scope.or(
      is_user.
      where("#{Watcher.table_name}.user_id IN (?)", Group.having_user(user_id).select(:id))
    )
  end

  # Finally, we have to join the watchers table at the end to simplify
  # the or condition above. The final SQL is the same in any case.
  scope.joins(:watchers)
}
```

This scope is functionally equivalent to the version in the patch (with the addition that we do support passed Integer arguments for the id of a user or group here). It will not make any queries on its own, thus avoiding additional roundtrips to the database. With that however, it will also not use any cached data (such as a previously cached principal.group\_ids list).

#### **#4 - 2022-06-19 22:04 - Marius BALTEANU**

- Category set to *Email notifications*
- Assignee set to *Marius BALTEANU*
- Target version changed from *Candidate for next minor release* to *5.0.2*

I think it is safe to deliver this fix in version:"5.0.2".

#### **#5 - 2022-06-20 07:53 - Marius BALTEANU**

- Status changed from *New* to *Resolved*

Patch committed, thanks!

**#6 - 2022-06-20 17:20 - Marius BALTEANU**

- Status changed from Resolved to Closed

**#7 - 2022-06-23 17:01 - salman mp**

Holger Just wrote:

| *The patch is more exhaustive than the previous ones by Salman:*

Good job. Thanks.

**Files**

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count_on_group_watchers.patch	1003 Bytes	2022-05-01	salman mp
count_group_watchers_v2.patch	1.01 KB	2022-05-01	salman mp
0001-Respect-group-memberships-when-checking-if-an-object.patch	3.35 KB	2022-06-16	Holger Just