

RhodeCode CE/EE - Task #4197

Task # 4150 (Closed): Summon chat feature

[ce, ee] get list of users with their permissions to a repository

24.08.2016 14:31 - Daniel D

Status:	New	Start date:	24.08.2016
Priority:	Normal	Due date:	
Assignee:	Daniel D	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	v4.11	Spent time:	0.00 hour
Sorting:		Commit Number:	

Description

Related to <https://issues.rhodecode.com/issues/4150>

Need a way to get all users from a repository along with their permissions for that repo.

At the moment permissions are generated via a complex python object in rhodecode.lib.auth:AuthUser which calculates the tree for a single user, taking into account default user, repo settings (overriding globals or not), and usergroups.

Iterating over the entire list of users is much too slow, some preliminary benchmarks show that it will take 10seconds / 100users.

In order to do this quickly instead, we would have to generate permissions via sql - A simplish (not completely correct results) query shows it will take about 50ms on internal rhodecode db.

```
SELECT
  users.username,
  repositories.repo_name,
  MIN(origin_sort || '-' || permission_name) as perm
FROM (
  SELECT
    '' as ug,
    permissions.permission_name,
    user_id,
    repository_id,
    '1-user' as origin_sort
  FROM
    repo_to_perm
  JOIN
    permissions ON
    permissions.permission_id = repo_to_perm.permission_id
  -- WHERE repository_id = 190
  UNION ALL
  SELECT
    users_groups.users_group_name,
    permissions.permission_name,
    users_groups_members.user_id,
    repository_id,
    '2-usergroup-' || users_groups.users_group_name as origin_sort
  FROM
    users_group_repo_to_perm
  JOIN
    permissions ON
    permissions.permission_id = users_group_repo_to_perm.permission_id
  JOIN
    users_groups_members
  ON
    users_groups_members.users_group_id = users_group_repo_to_perm.users_group_id
  JOIN
    users_groups
  ON
    users_group_repo_to_perm.users_group_id = users_groups.users_group_id
```

```
        -- WHERE repository_id = 190
    ) tmp_user_and_usergroup_perms
JOIN users ON users.user_id = tmp_user_and_usergroup_perms.user_id
JOIN repositories ON repositories.repo_id = tmp_user_and_usergroup_perms.repository_id
GROUP BY users.username, repositories.repo_name
ORDER BY username, perm
;
```

History

#1 - 24.08.2016 14:34 - Daniel D

- Target version set to v4.5
- Assignee set to Daniel D

Will need to write a lot of stringent tests first to make sure the query always matches the original perms generated by AuthUser, and also must work out exactly the permission override rules.

#2 - 24.08.2016 14:35 - Daniel D

- Parent task set to #4150

#3 - 27.10.2016 16:12 - Marcin Kuzminski [staff]

- Target version changed from v4.5 to v4.6

#4 - 30.01.2017 20:19 - Marcin Kuzminski [staff]

- Target version changed from v4.6 to v4.7

#5 - 04.04.2017 11:34 - Marcin Kuzminski [staff]

- Target version changed from v4.7 to v4.8

#6 - 11.07.2017 13:31 - Marcin Kuzminski [staff]

- Target version changed from v4.8 to v4.10

#7 - 22.09.2017 10:30 - Marcin Kuzminski [staff]

- Target version changed from v4.10 to v4.11