

Trop de requêtes SQL sur la tables roles pendant une seule requête HTTP

06 octobre 2021 11:41 - Benjamin Dauvergne

Statut:	Fermé	Début:	06 octobre 2021
Priorité:	Normal	Echéance:	
Assigné à:		% réalisé:	0%
Catégorie:		Temps estimé:	0:00 heure
Version cible:		Planning:	Non
Patch proposed:	Non		

Description

Suite encore au ticket client #56562.

On a 85 requêtes sur les rôles :

```
# grep roles log3
2021-10-06 11:15:40.467 SELECT ... FROM roles WHERE id = 'cc3164213fff84343b8429e05dcfd26ab'
2021-10-06 11:15:40.468 SELECT ... FROM roles WHERE id = '2c68cbb76fd347678bc753eb7c376614'
2021-10-06 11:15:40.469 SELECT ... FROM roles WHERE id = 'cc3164213fff84343b8429e05dcfd26ab'
2021-10-06 11:15:40.469 SELECT ... FROM roles WHERE id = '2c68cbb76fd347678bc753eb7c376614'
2021-10-06 11:15:40.469 SELECT ... FROM roles WHERE id = '391176ccb1864956a3479d8a61bd19fe'
2021-10-06 11:15:40.469 SELECT ... FROM roles WHERE id = 'b53aeea3b4d549c595940279c67202a0'
2021-10-06 11:15:40.470 SELECT ... FROM roles WHERE id = '6b2f98ddb77843978bbc7ab0761015c8'
2021-10-06 11:15:40.470 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:40.470 SELECT ... FROM roles WHERE id = '4ed5ca7d3b144efc910bc7942e6a9682'
2021-10-06 11:15:40.471 SELECT ... FROM roles WHERE id = '27265c45e0814909a3cdd305542cc432'
2021-10-06 11:15:40.471 SELECT ... FROM roles WHERE id = '2c68cbb76fd347678bc753eb7c376614'
2021-10-06 11:15:40.472 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
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2021-10-06 11:15:40.473 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
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2021-10-06 11:15:40.473 SELECT ... FROM roles WHERE id = 'b53aeea3b4d549c595940279c67202a0'
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2021-10-06 11:15:40.474 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:40.554 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:40.556 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
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2021-10-06 11:15:40.558 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:40.802 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:40.804 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:40.815 SELECT ... FROM roles WHERE id = 'cc3164213fff84343b8429e05dcfd26ab'
2021-10-06 11:15:40.815 SELECT ... FROM roles WHERE id = '2c68cbb76fd347678bc753eb7c376614'
2021-10-06 11:15:40.815 SELECT ... FROM roles WHERE id = 'cc3164213fff84343b8429e05dcfd26ab'
2021-10-06 11:15:40.816 SELECT ... FROM roles WHERE id = '2c68cbb76fd347678bc753eb7c376614'
2021-10-06 11:15:40.816 SELECT ... FROM roles WHERE id = '391176ccb1864956a3479d8a61bd19fe'
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2021-10-06 11:15:40.817 SELECT ... FROM roles WHERE id = '4ed5ca7d3b144efc910bc7942e6a9682'
2021-10-06 11:15:40.817 SELECT ... FROM roles WHERE id = '27265c45e0814909a3cdd305542cc432'
2021-10-06 11:15:40.818 SELECT ... FROM roles WHERE id = '2c68cbb76fd347678bc753eb7c376614'
2021-10-06 11:15:40.851 SELECT ... FROM roles WHERE id = 'cc3164213fff84343b8429e05dcfd26ab'
2021-10-06 11:15:40.853 SELECT ... FROM roles WHERE id = '2c68cbb76fd347678bc753eb7c376614'
2021-10-06 11:15:40.853 SELECT ... FROM roles WHERE id = 'cc3164213fff84343b8429e05dcfd26ab'
2021-10-06 11:15:40.853 SELECT ... FROM roles WHERE id = '2c68cbb76fd347678bc753eb7c376614'
2021-10-06 11:15:40.854 SELECT ... FROM roles WHERE id = '391176ccb1864956a3479d8a61bd19fe'
```

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2021-10-06 11:15:40.854 SELECT ... FROM roles WHERE id = 'b53aeea3b4d549c595940279c67202a0'
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2021-10-06 11:15:40.855 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:40.855 SELECT ... FROM roles WHERE id = '4ed5ca7d3b144efc910bc7942e6a9682'
2021-10-06 11:15:40.855 SELECT ... FROM roles WHERE id = '27265c45e0814909a3cdd305542cc432'
2021-10-06 11:15:40.855 SELECT ... FROM roles WHERE id = '2c68cbb76fd347678bc753eb7c376614'
2021-10-06 11:15:40.856 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:40.857 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
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2021-10-06 11:15:40.857 SELECT ... FROM roles WHERE id = '391176ccb1864956a3479d8a61bd19fe'
2021-10-06 11:15:40.858 SELECT ... FROM roles WHERE id = 'b53aeea3b4d549c595940279c67202a0'
2021-10-06 11:15:40.858 SELECT ... FROM roles WHERE id = '6b2f98ddb77843978bbc7ab0761015c8'
2021-10-06 11:15:40.858 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:40.937 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:40.938 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:40.939 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:40.939 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:40.939 SELECT ... FROM roles WHERE id = '391176ccb1864956a3479d8a61bd19fe'
2021-10-06 11:15:40.940 SELECT ... FROM roles WHERE id = 'b53aeea3b4d549c595940279c67202a0'
2021-10-06 11:15:40.940 SELECT ... FROM roles WHERE id = '6b2f98ddb77843978bbc7ab0761015c8'
2021-10-06 11:15:40.940 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:41.178 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:41.180 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:41.193 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:41.194 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:41.194 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:41.194 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:41.194 SELECT ... FROM roles WHERE id = '391176ccb1864956a3479d8a61bd19fe'
2021-10-06 11:15:41.195 SELECT ... FROM roles WHERE id = 'b53aeea3b4d549c595940279c67202a0'
2021-10-06 11:15:41.195 SELECT ... FROM roles WHERE id = '6b2f98ddb77843978bbc7ab0761015c8'
2021-10-06 11:15:41.195 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:41.197 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:41.197 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:41.199 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:41.200 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'
2021-10-06 11:15:41.200 SELECT ... FROM roles WHERE id = '391176ccb1864956a3479d8a61bd19fe'
2021-10-06 11:15:41.200 SELECT ... FROM roles WHERE id = 'b53aeea3b4d549c595940279c67202a0'
2021-10-06 11:15:41.201 SELECT ... FROM roles WHERE id = '6b2f98ddb77843978bbc7ab0761015c8'
2021-10-06 11:15:41.201 SELECT ... FROM roles WHERE id = '57c41e4e30f9449598e5fac577f6bd0d'

```

pour seulement 8 rôles différents :

```

# grep roles log3 | sed 's/.*id = //' | sort | uniq
'27265c45e0814909a3cdd305542cc432'
'2c68cbb76fd347678bc753eb7c376614'
'391176ccb1864956a3479d8a61bd19fe'
'4ed5ca7d3b144efc910bc7942e6a9682'
'57c41e4e30f9449598e5fac577f6bd0d'
'6b2f98ddb77843978bbc7ab0761015c8'
'b53aeea3b4d549c595940279c67202a0'
'cc3164213ff84343b8429e05dcfd26ab'

```

Ça fait beaucoup. Les rôles étant quasiment immuables (l'appartenance est stockée sur les objets user) on pourrait les mettre en cache de manière plus agressive au moins pour la durée d'une requête.

```

# sur toodego
In [20]: uuids = [role.id for role in pub.role_class.select(limit=85)]

In [21]: %timeit len([pub.role_class.get(id=uuid) for uuid in uuids[:8]])
100 loops, best of 5: 3.11 ms per loop <- mise en cache au premier accès

In [22]: %timeit len([pub.role_class.get(id=uuid) for uuid in uuids])
10 loops, best of 5: 28.9 ms per loop <- pas de mise en cache

In [23]: %timeit len(pub.role_class.select())
10 loops, best of 5: 164 ms per loop <-tout mettre en cache est un peu cher

```

Demandes liées:

Lié à w.c.s. - Development #57623: sql: ne pas itérer ligne par ligne sur un ...	Rejeté	05 octobre 2021
Lié à w.c.s. - Development #59882: contexte lazy pour le rendu des pages et d...	Fermé	18 décembre 2021
Lié à w.c.s. - Development #59891: lazy loading des rôles associés aux catégo...	Fermé	19 décembre 2021

Historique

#1 - 06 octobre 2021 11:41 - Benjamin Dauvergne

- Lié à Development #57623: sql: ne pas itérer ligne par ligne sur un `SqlKlass.select(iterator=False)` ajouté

#3 - 18 décembre 2021 20:29 - Frédéric Péters

- Lié à Development #59882: contexte lazy pour le rendu des pages et des widgets ajouté

#4 - 18 décembre 2021 20:41 - Frédéric Péters

J'ai passé un peu de temps sur les origines du chargement des rôles, différentes choses :

- les rôles sont chargés quand les catégories sont chargées, lors de la désérialisation des attributs `*_roles` (`export_roles`, `statistics_roles`, `management_roles`); la plupart du temps on charge les catégories sans être intéressé par ces attributs, le patch de la branche gère ça en faisant les requêtes uniquement lors de l'accès aux attributs (peut-être à sortir dans son propre ticket, ce ticket faisant juste chapeau);
- pour accentuer ça les catégories elles-mêmes étaient beaucoup trop chargées, en front, c'est en partie très bête [#59881](#)
- les rôles étaient aussi pas mal chargés pour les variables `form_role_...`, et il y avait encore de la génération statique de celles-ci lors des rendus des widgets et des pages, c'est [#59882](#). (qui doit venir après [#59883](#))
- côté objet User l'attribut `roles` est une liste d'identifiants, ça ne pose pas problème. (il y a cependant une utilisation dans `can_go_in_backoffice` à optimiser/mettre en cache, pas encore de ticket).

Il y a toute une série de court-circuits en place quand l'utilisateur est admin, je n'ai pas encore passé du temps avec un agent pas admin.

#5 - 19 décembre 2021 10:24 - Frédéric Péters

- Lié à Development #59891: lazy loading des rôles associés aux catégories ajouté

#6 - 13 avril 2022 22:31 - Frédéric Péters

- Statut changé de Nouveau à Fermé

Les tickets liés sont intégrés depuis.