The below tested patch makes the previously hardcoded limit of 100 items in a RESTful API response configurable in the Administration GUI. The default value is still 100. This is based on 2.4.1.stable.

This is quite useful since it is nice and simple to just get the full response in a single page rather than having to traverse pagination, and a limit of a bit more than 100 is still very performant for many sites -- the limit beyond which performance starts to degrade really depends on the particular site's usage, so should be controllable by the local administrator.

```ruby
limit = options[:limit].to_i
if limit < 1
  limit = 25
else if limit > 100
  limit = 100
else if limit > Setting.api_limit.to_i
  limit = Setting.api_limit.to_i
end
```

Index:

```ruby
app/views/settings/_general.html.erb
```

```ruby
<p><%= setting_select :wiki_compression, [['Gzip', 'gzip']], :blank => :label_none %></p>

+<p><%= setting_text_field :api_limit, :size => 6 %></p>

+<p><%= setting_text_field :feeds_limit, :size => 6 %></p>

-<p><%= setting_text_field :file_max_size_displayed, :size => 6 %></p>
```
+api_limit:
+ format: int
+ default: 100

feeds_limit:
 format: int
 default: 15

Index: config/locales/en.yml

---

config/locales/en.yml (revision 13387)
+++ config/locales/en.yml (revision 13389)
@@ -352,6 +352,7 @@
    setting_host_name: Host name and path
    setting_text_formatting: Text formatting
    settingWikiCompression: Wiki history compression
+ setting_api_limit: Maximum number of items returned in a JSON/XML API response
    settingFeedsLimit: Maximum number of items in Atom feeds
    setting_default_projects_public: New projects are public by default
    setting_autofetch_changesets: Fetch commits automatically

Related issues:
Duplicated by Redmine - Feature # 7539: Rest-API limit of items not 100, but ... 
Closed 2011-02-04
Duplicated by Redmine - Defect # 25555: Make api paging limit configurable
Closed
Duplicated by Redmine - Feature # 26553: Overly restricted number of ReST res...
Closed
Duplicated by Redmine - Feature # 33526: Add possibility to configure limit u...
Closed

History

#1 - 2014-08-19 20:45 - Domingo Galdos

Is there anything I can do to help move this patch forward?

#2 - 2015-07-03 16:22 - Anton Statutov

+1

#3 - 2015-07-10 11:52 - V Lindell

+1

#4 - 2015-07-26 04:08 - Toshi MARUYAMA

- Target version set to 3.2.0

#5 - 2015-07-26 08:50 - Go MAEDA

The user should not be able to set the value of API limit smaller than 100.
Probably some clients suppose that the value is always 100, smaller limit may affect compatibility with such clients.

#6 - 2015-11-22 17:10 - Jens Peter Kempkes
We would also appreciate higher values than 100. Some of our tools need to load all items visible to a user and therefore need to split the requests.

#7 - 2015-11-27 08:57 - Sebastian Paluch
+1

#8 - 2015-12-06 11:44 - Jean-Philippe Lang
- Target version changed from 3.2.0 to Candidate for next major release

#9 - 2015-12-09 13:24 - Jens Peter Kempkes
Too sad, this patch was shifted.
What is the reason?
We're really waiting for this patch and all seems to be done. Am I wrong?

#10 - 2015-12-23 11:00 - Niklaus Jordi
+1

#11 - 2016-03-22 12:38 - Go MAEDA
- Duplicated by Feature #7539: Rest-API limit of items not 100, but changeable by the administrator added

#12 - 2016-06-28 17:54 - Dam Dam
+1

Hi,
This request was posted 2 years ago, so what's up?

#13 - 2016-09-20 09:21 - Stephane Evr
+1

#14 - 2017-04-09 02:18 - Go MAEDA
- Duplicated by Defect #25555: Make api paging limit configurable added

#15 - 2017-04-10 09:55 - George Brooke
Is there anything wrong/non-ideal with this patch which means that it has not been integrated?

#16 - 2017-06-01 17:01 - Bohdan Artemchuk
+1
#17 - 2017-07-27 17:54 - Toshi MARUYAMA
- Description updated

#18 - 2017-07-27 17:55 - Toshi MARUYAMA
- Duplicated by Feature #26553: Overly restricted number of ReST results added

#19 - 2018-01-02 12:57 - Michael Gerz

What happened to this patch? Nothing?

#20 - 2018-04-30 08:45 - Jose Luis Parrilla

+1

#21 - 2018-09-09 20:35 - Гордеев Алексей

Silence... :(?

#22 - 2019-02-17 06:15 - Yuuki NARA

+1

I think that it should be changeable by the responsibility of the system administrator.

There are many configuration items in the world system that may cause troubles due to setting change contents. Since there are cases where it is necessary to change these items, it is made public after clearly stating that there is a risk when changing.

It is enough to specify the following points.

If you change the default value, there is a possibility of trouble in the operation of REST using application. The operation verification responsibility is on Redmine system administrator who changed.

#23 - 2019-03-01 11:18 - C F

+1

#24 - 2019-03-28 16:43 - Gianni Cavallotto

+1

#25 - 2019-09-18 08:03 - int redmine

+1

#26 - 2019-10-16 13:48 - Meiki Neumann
Setting API limit: Maximum number of items returned in a JSON/XML API response

is

Setting API limit: Максимальное количество элементов, передаваемых в ответе JSON/XML API

What blocks this change?

Meineerdem from IRC #redmine@freenode ask me to describe my use-case. Sorry for my poor english, but I try to explain why this feature is important for me.

We are using Redmine for manage projects - tasks, issues, bugtracker. 10-20 active projects with hundreds active issues and 100+ active users - employees and customers. Employees are using "Spent time" in issues to record work time for every issue every day. The employees' salary depends on those records.

We have developed application on Java+Tomcat for create reports with values from "Spent time" fields. It using REST API to get values:

http://redmine.host/time_entries.json?spent_on=<BEGIN_OF_MONTH|END_OF_MONTH>&offset=N&limit=10000

For example to get 20000 objects - 200 requests in ~3 minutes even on localhost. But it's faster with limit 10000 - ~20 seconds only.

After end of each month 10+ project managers (I'm one of them) using this application to create reports for each project. The employees salary calculated from this reports. Every mouth we have thousands of "Spent time" entries. It's too long for users wait several minutes for "simple" report, and...
Looks good. We've wrote a patch based on Domingo Galdos' one (Patch 0001) with Juno NISHIZAKI, sanak and me on Redmine patch meeting 4th. The changes are as follows:

- Added a test. (Patch 0002)
- Moved the configuration value form from the "General" tab to the "API" tab and shorten the label name. (Patch 0003, 0004)
- In the current implementation, if the limit parameter is less than 1, Redmine sets limit to 25. the limit is less than 25, the conditional statement is modified to be replaced by another one. (Patch 0005)

Go MAEDA wrote:

> The user should not be able to set the value of API limit smaller than 100.
> Probably some clients suppose that the value is always 100, smaller limit may affect compatibility with such clients.

Sounds reasonable, but currently the setting page doesn't have any validations. Do you have any good idea to apply the constraint?

vzvu 3k6k wrote:

Go MAEDA wrote:

> The user should not be able to set the value of API limit smaller than 100.
> Probably some clients suppose that the value is always 100, smaller limit may affect compatibility with such clients.

Sounds reasonable, but currently the setting page doesn't have any validations. Do you have any good idea to apply the constraint?

The attached patch adds validation, though it may not be the best way to write it.

The final result of the patch series posted by vzvu 3k6k and Mizuki looks good to me and all the tests pass:

https://gitlab.com/redmine-org/redmine/-/pipelines/207877707
I propose to evaluate this for 4.2.0, but we should have Jean-Philippe agree on this because he rejected the patch some time ago. The feature is useful, for sure.

#37 - 2021-03-17 18:11 - Roberto Mendes

I need this. To get more than 100 items.

#38 - 2021-03-23 21:42 - Marius BALTEANU

- Target version changed from 4.2.0 to 5.0.0

Files

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<th>Files</th>
<th>Size</th>
<th>Date</th>
<th>Author</th>
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<td>0001-domingo-galdos.patch</td>
<td>1.93 KB</td>
<td>2020-10-24</td>
<td>vzvu 3k6k</td>
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<td>0002-add-test.patch</td>
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<tr>
<td>Add-validation-to-api-limit.patch</td>
<td>1.41 KB</td>
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<td>Mizuki ISHIKAWA</td>
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